Science Applications International Corporation
An Employee-Owned Company

November 11, 2002

[redacted]
U.S. Army Corps of Engineers
Buffalo District
1776 Niagara Street
Buffalo, New York 14207

SUBJECT: Contract DAHA90-94-D-0007-DN03
TECHNICAL MEMORANDUM - SUMMER 2001 SUBSURFACE INVESTIGATION AT THE SEAWAY SITE-AREAS A, B, AND C, TONAWANDA, NEW YORK, NOVEMBER 2002

Enclosed are five (5) copies of the subject document for your review. This document reflects the changes in response to comments received on the January 18, 2002, Review Draft from the CX and the Technical Project Planning (TPP) team in May 2002. The first version of the responses to those comments was provided to you electronically on June 3, 2002. The final version, Rev. 3, of the response matrix was provided to you electronically on September 25, 2002. The changes to the document reflecting the responses were provided to you as a red-line copy on October 18, 2002, for you to assess whether the changes were complete and acceptable. This final report reflects the red-line changes provided to you as well as resolutions provided to you electronically on October 30, 2002, to your comments on the red-line version. As we have discussed, the off-site laboratory reports and our associated validation reports are included in this technical memorandum in electronic form only. Since the volume of all of these reports would be unmanageable, they have been placed on a compact disc which is included with each copy of the technical memorandum.

As you requested, this material is also being provided to you electronically with the exception of Exhibits B, C, D, E, F, G, H, I, and J. There were no changes to these exhibits except the inclusion of a fly sheet for some. These fly sheets have been included in the technical memorandum electronic file which includes the exhibit title page and fly sheet, if applicable. There was one new exhibit generated, Exhibit F-1, which includes the RESRAD output and the electronic file for that exhibit is being provided to you electronically. As we discussed, hard copies of the complete technical memorandum will be made and distributed next week to members of the TPP team that you identified and to the Administrative Record.

If you have any questions, please feel free to contact me at [redacted]

Sincerely,

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

[redacted]
Project Manager

Attachments

200.1e

cc w/att: [redacted], SAIC
[redacted], SAIC
File – SAIC

cc w/o att: [redacted], USACE
[redacted], USACE
[redacted], SAIC

FUSRAP – Seaway FSA/PP/ROD
USACE Contract No: DAHA90-94-D-0007-DN03

STATEMENT OF COMPLETION OF TECHNICAL REVIEW

SAIC has completed the **Technical Memorandum – Summer 2001 Subsurface Investigation at the Seaway Site – Areas A, B and C, Tonawanda, New York, November 2002**. Notice is hereby given that an independent technical review has been conducted that is appropriate to the level of risk and complexity inherent in the project, as defined in the Quality Control Plan. During the independent technical review, compliance with established policy, principles and procedures, utilizing justified and valid assumptions, was verified. This included review of assumptions; methods, procedures, and material used in analysis; alternatives evaluated; the appropriateness of data used and level of data obtained; and reasonableness of the results, including whether the product meets the customer's needs consistent with law and existing USACE policy. All internal comments were resolved and the document indicated above is ready for release to the USACE.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

[redacted] 11/11/02
(Date)

[redacted] 11/11/02
Project Manager (Date)

Task Manager (if applicable) (Date)

Independent Technical Reviewer (Date)

FUSRAP – Seaway FSA/PP/ROD
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SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

Program Manager	(Date)
[redacted] Project Manager	11/11/02 (Date)
[redacted] Task Manager (if applicable)	11/11/02 (Date)
Independent Technical Reviewer	(Date)

US Army Corps
of Engineers®
Buffalo District

TECHNICAL MEMORANDUM

SUMMER 2001 SUBSURFACE INVESTIGATION AT THE SEAWAY SITE - AREAS A, B and C

TONAWANDA, NEW YORK

NOVEMBER 2002

TECHNICAL MEMORANDUM
SUMMER 2001 SUBSURFACE INVESTIGATION
AT THE SEAWAY SITE - AREAS A, B AND C
TONAWANDA, NEW YORK

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ACRONYMS, ABBREVIATIONS AND SYMBOLS

2×2	2-inch by 2-inch sodium iodide detector
BEGe	broad-energy germanium detector
BFI	Browning-Ferris Industries, Inc.
BHP	borehole probe (shielded gamma radiation detector)
cm	centimeter
cpm	counts per minute
DQO	data quality objective
DS	decision statement
DUST	Disposal Unit Source Term
FCR	Field Change Request
FSP	Field Sampling Plan
FUSRAP	Formerly Utilized Sites Remedial Action Program
GM	Geiger-Müeller detector
K_d	distribution coefficient
MED	Manhattan Engineer District
NYSDEC	New York State Department of Environmental Conservation
ORNL	Oak Ridge National Laboratory
PCBs	Polychlorinated Biphenyls
PID	photoionization detector
PSQ	principal study questions
PVC	polyvinyl chloride
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
^{226}Ra	radium-226
RCRA	Resource Conservation and Recovery Act
RI	Remedial Investigation
TCLP	Toxicity Characteristic Leaching Procedure
TPP	Technical Project Planning
^{230}Th	thorium-230
^{238}U	uranium-238
USACE	U.S. Army Corps of Engineers
VOC	volatile organic compound

1.0 INTRODUCTION

1.1 SITE DESCRIPTION

The Seaway Formerly Utilized Sites Remedial Action Program (FUSRAP) Site is located in the Seaway Industrial Park in Tonawanda, New York, north of Buffalo, and just south of the Niagara River (see Figure 1-1). The industrial park is approximately 100 acres in area and is positioned between two other FUSRAP sites, Ashland 1 and Ashland 2 (see Figure 1-2). The Sands Mobile Park Corporation, successor by merger to the Seaway Industrial Park Development Company, Inc., owns the industrial park. Browning-Ferris Industries, Inc. (BFI) has operated the industrial park as a landfill through its subsidiary, Niagara Recycling, Inc., since the late 1980s. Approximately 89 percent of the Seaway property has been used for landfilling activities, raising the elevation to approximately 120 feet above the surrounding land. The landfill ceased operations in 1993, and most of the landfill has been capped in accordance with requirements of the New York State Department of Environmental Conservation (NYSDEC).

The Seaway FUSRAP Site (within the industrial park) consists of three areas (Areas A, B, and C as shown in Figure 1-3), so named and designated based on historical data and records. Figure 1-4 shows that the FUSRAP areas were not capped as part of landfill closure operations, although some FUSRAP-related residues were buried beneath daily cover material and refuse during routine landfill operations.

The FUSRAP-related residues date back to the mid-1940s and Manhattan Engineer District (MED) activities at the nearby FUSRAP Linde property. In 1944, the MED purchased a 10-acre tract known as the Haist property, now called Ashland 1, to serve as a disposal site for Linde's uranium ore processing residues. Approximately 8,000 tons of mostly residues/tailings from low grade uranium ore were deposited by MED over roughly two-thirds of the Ashland 1 site from 1944 to 1946. In 1960, Ashland 1 was transferred to the Ashland Oil Company who, in 1974, constructed a bermed area for two on-site petroleum product storage tanks and a drainage ditch. The majority of the soil removed during construction was transported by Ashland Oil Company to Seaway and Ashland 2. Approximately 6,000 cubic yards of low-grade uranium ore tailings from Ashland 1 were reportedly transported to Seaway Areas A, B, and C in 1974. Since 1974, portions of these residues have been buried under refuse and fill material to depths ranging from 10 feet (Area A) to 40 feet or greater (Areas B and C) [BNI 1993].

1.2 PURPOSE

Seaway Site investigation activities, which took place from August 13 through September 21, 2001, were conducted in accordance with procedures outlined in the Field Sampling Plan (FSP), the Technical Project Planning (TPP), and the scoping document.

The purpose of this investigation was to provide additional limited characterization of Areas A, B, and C and to supplement the information already available from the Remedial Investigation (RI) [BNI 1993] and other previous investigations. Specifically, this investigation was to improve site knowledge of the following:

1. the extent of MED-related residues in Areas B and C;
2. the nature of MED-related residues in Areas A, B, and C; and
3. MED-related waste disposal characteristics and potential impacts on remediation worker safety.

Specific to Items 1 and 2 above, the purpose of this investigation was to determine if isolated residue piles identified during a 1976 survey [ORNL 1978] are still intact or are now spread over a large area as if used as daily cover. The investigation was also designed to identify non-MED-related constituents in the study areas that exhibit radiological characteristics similar to MED-related residues. By doing so, decision makers may focus future studies and activities to only include materials subject to FUSRAP.

2.0 SCOPE AND OBJECTIVES

The scope of this investigation was limited to boundary delineation (both vertical and horizontal), waste characterization for worker protection and disposal, and data gathering for the refinement of site models. Boundary delineation activities were to identify potential depth of excavations, thickness of overburden, lateral extent of contamination, location of other radiological materials, and potential impacts to the existing landfill cap. Waste characterization activities were to identify substances that would be hazardous to future remediation workers and that would be subject to special management (e.g., mixed waste). This information and other data were to help refine site volume estimates, cost estimates, and leaching or other models that are currently based on sometimes limited historical data.

Execution of the scope and objectives of this investigation was designed around a Rotosonic® drilling (coring) operation, field screening instruments including a photoionization detector (PID) and hand-held radiation detectors, down-hole gamma radiation measurements, and on-site plus off-site laboratory analyses. The following sections include a summary of data quality objectives (DQOs) for the Seaway investigation (Section 2.1) followed by a summary of field activities (Section 2.2).

2.1 DATA QUALITY OBJECTIVES

DQOs are listed in Table 1-1 of the FSP [U.S. Army Corps of Engineers (USACE) 2001b] and in Chapter 3.0 of the Quality Assurance Project Plan (QAPP) (USACE 2001c). Many of these DQOs are limited primarily to defining sample matrices and analysis methods although the FSP and QAPP as a whole contain other elements of the seven-step DQO process described in U.S. Environmental Protection Agency (EPA) guidance. The purpose of this section is to pull together the DQO elements from the FSP and QAPP or otherwise retrofit DQOs setting up future sections of this memorandum.

2.1.1 State the Problem

The summer 2001 Seaway Site investigation was conducted to improve site knowledge of: (1) the extent of MED-related contamination in Areas B and C; (2) the nature of contamination on Areas A, B, and C; and (3) MED-related waste disposal characteristics and potential impacts to remediation worker safety.

2.1.2 Identify the Decisions

Principal study questions (PSQs) for the summer 2001 Seaway Site investigation include the following:

PSQ-1. Do MED-related residues exist in small, isolated piles or as otherwise described in the RI report (BNI 1993)?

PSQ-2. Are MED-related residues at some locations buried under as much as 40 feet of refuse?

PSQ-3. Are radionuclides in MED-related residues leaching in sufficient quantities to impact local groundwater (i.e., the leachate collection system)?

PSQ-4. Could fly ash or other materials deposited in the landfill produce sufficient radioactivity to interfere with the remediation of MED-related residues?

PSQ-5. Do landfill materials (MED-related or otherwise) contain volatile organic compounds (VOCs) or other constitutes at concentrations sufficient to pose a hazard to future remediation workers, or levels that require handling as hazardous wastes?

PSQ-6. If the answers to PSQ-1 and PSQ-2 are "no," Do MED-related residues extend under the closed portions of the existing landfill?

PSQ-7. If the answer to PSQ-4 is "yes," Are there features that distinguish MED-related residues from other constituents exhibiting elevated levels of radiation?

The investigation was therefore designed around the following objectives:

1. Given the existing physical boundaries and project schedule, define the vertical and lateral extent of MED-related residues located within Seaway Areas B and C, to answer PSQ-1, PSQ-2 and PSQ-6;

2. Determine the ability to distinguish MED-related residues from other constituents exhibiting elevated levels of radioactivity, if any, to answer PSQ-4 and PSQ-7;

3. Measure the leachability of MED-related residues and potential impacts to the local leachate collection system, to answer PSQ-3; and

4. Determine if remediation waste would have to be managed as hazardous waste and establish the need for any special protective equipment assuming intrusive remedial actions will take place, to answer PSQ-5.

2.1.3 Identify Inputs to the Decision

Existing information, including some anecdotal evidence, does not adequately resolve the above questions and objectives. Much of the existing understanding of site conditions is based on interviews with former site employees, old aerial photographs, and sparse analytical data. Therefore, this investigation was designed around collecting data points near the historically established boundaries and in areas considered to represent the potential range of contaminant characteristics. The data collected would consist of a high volume of gross α, β, and δ radiation detector readings from boreholes and extracted cores supplemented by off-site analytical laboratory results. Specifically:

- gross α, β, and δ radiation measurements would be collected from boreholes drilled throughout the site to identify MED-related residues containing elevated radionuclide concentrations;

- extracted cores would be scanned for VOCs using a hand-held detector; and

- samples would be collected from extracted cores and transported to an analytical laboratory for radiological analyses and in some cases additional analyses such as chemical (i.e., volatile organics, semi-volatile organics, PCBs, pesticides and metals); RCRA TCLP analyses (i.e., TCLP metals, TCLP organics); radiological analysis of the leachate resulting from the TCLP testing; and other waste acceptance criteria test (i.e., total cyanide, reactive cyanide, reactive sulfide and soil pH).

Requirements for analytical data are defined in the *Statement of Work for Radiological and Chemical Analytical Laboratory Services* (USACE 2001a) and are not repeated here. However, the statement of work defines target detection limits, data quality requirements, etc., that would be required of a USACE-approved analytical laboratory. The quality of gross radiation measurements would be assured through calibration and daily source check requirements and through the ongoing reviews and data analyses by the field manager and other qualified field personnel.

2.1.4 Define Study Area Boundaries

One objective of this investigation is to define the boundaries of Areas B and C. The currently defined lateral boundaries of Areas A, B, and C are illustrated in Figures 1-3 and 1-4. Historical records indicate that MED-related residues are buried under as much as 40 feet of refuse (maximum depth). Theoretical boundaries for the investigation are the closed portions of the landfill and the maximum allowable depth of borehole probes (120 feet).

2.1.5 Develop Decision Rules

Decision rules for the Summer 2001 Seaway FUSRAP Site investigation were defined in a position paper entitled, "Seaway Areas A, B, and C Sample Collection Decision Rules." This 4-page paper is presented in Exhibit A and is not repeated here.

2.1.6 Specify Limits on Decision Errors

It was not practical to define quantitative limits on decision errors for all aspects of the investigation. That is, the investigation was designed to be flexible and to allow field managers to make decisions based on the accumulated gross and analytical data (see Exhibit A). Gross measurement equipment was selected to provide the highest quality data allowed within budgetary limits. Limits were placed on analytical analyses based on the best available technology and the project budget (USACE 2001a). Table 3-1 in the QAPP (USACE 2001c) does provide some limits to which site data was compared during the validation process.

2.1.7 Optimize the Sampling Design

As stated above, the investigation was designed around the ability of personnel to make decisions in the field. The original design was optimized with the addition of an on-site gamma spectrometer (Broad-energy Germanium, or BEGe, detector). While original scope called for the use of a standard 2-inch by 2-inch sodium iodide detector (2×2) further design optimization resulted in the use of a shielded probe to provide more accurate field readings. The BEGe detector would produce same-day analytical results (although at a lower quality than from the off-site laboratory), and the shielded 2×2 would improve detection capabilities by increasing the signal-to-noise ratio. The field team was also encouraged to provide continuous input to management identifying areas for potential improvement. The flexibility and continuous feedback were designed to account for unpredicted conditions, to improve efficiency and data quality, and to eliminate unproductive activities.

2.2 SUMMARY OF FIELD ACTIVITIES

Seaway Site investigation activities took place from August 13 through September 21, 2001, and included one 10-day work cycle from August 13 to August 22, 2001, one 12-day work cycle from August 27 to September 7, 2001, and one 5-day work cycle from September 17 to September 21, 2001. Drilling operations occurred during cycles 1 and 2, while cycle 3 was used to complete tasks left over from cycle 2 and to demobilize from the site. The location of a number of borings and the determination of whether sufficient information had been collected to meet the objectives were made by the Field Team. This Field Team made the decisions based on the field results and the 1974 aerial photograph. The Field Team representatives at the Site consisted of individuals from USACE, NYSDEC and SAIC, per the Work Plan (USACE 2001a).

The site investigation focused on the collection of data from boreholes distributed in and around Areas A, B, and C. However, the effort included a combination of non-intrusive and intrusive activities. Non-intrusive activities included, but are not limited to, the following:

- Initial site radiological surveys (August 13 and 14) – required to characterize baseline radiation levels within the field office, along access roads, and on and within equipment and vehicles that may enter Areas A, B, or C.

- Brush clearing from all study areas (August 13 through August 16) – required to level tall grass, etc., that would impede movement and hide potential hazards, such as exposed rebar or other metal objects, large holes, bees' nests, etc., and to reduce the risk of fire from hot equipment.

- Civil survey of all study areas (primarily August 13 though 15, but ongoing through the end of the second work cycle) – required to establish area boundaries according to historical data, current topographic conditions, and coordinates for borehole locations.

- Routine radiological surveys (throughout duration of investigation) – required to limit the potential spread of contamination outside study areas, to ensure worker protection, to satisfy off-site shipping requirements, etc.

Intrusive activities are defined here as any activity associated with the drilling operations and subsequent investigation of extracted cores and core holes. While the sequence and makeup of intrusive activities may have varied slightly from borehole location to borehole location, due to a range of conditions, the basic description of intrusive activities for each borehole is as follows:

- A borehole location was identified based on historical information or based on field management direction.

- The location was prepared by establishing background gamma radiation levels using a 2×2, by spreading plastic sheeting on which equipment and extracted cores would be laid, and by establishing the elevation of the borehole surface.

- A Rotosonic® drill was used to extract 5- to 10-foot core intervals from the borehole until the target depth was achieved – intervals were extruded into plastic bags and placed end-to-end on the plastic sheeting.

- Once the desired depth was obtained, a bottom-capped, 4-inch inner diameter, threaded polyvinyl chloride (PVC) pipe was inserted into the borehole.

- During drilling operations:

  – drilling equipment was scanned using an alpha scintillation detector;
  – air quality around the operating drill was monitored using a combustible gas detector;
  – a lapel air sampler was worn by the drill operator to detect airborne radiological contaminants;
  – a photoionization detector (PID) was used to scan the breathing zone for VOCs; and
  – a 2×2 and a shielded Geiger-Müeller detector (GM) were used to identify elevated radiation levels along the extracted core barrel, if any.

- A lead-shielded 2×2 borehole probe (BHP) was then used to measure gamma radiation levels within the PVC pipe by collecting a 1-minute count every 6 inches until reaching the bottom of the borehole.[1]

- The BHP data were plotted to identify intervals with elevated gamma radiation levels and to identify potential sampling locations.

- The extracted material inside the 10-foot core barrel was extruded into a long plastic sleeve, the bag sealed at both ends and placed on plastic sheeting on the ground near the boring location.

- As the sealed plastic sleeve is slit open, PID measurements were made and recorded to identify potential locations for VOC sampling. VOC samples were collected within a short time the same day the boring was extracted and shortly after the plastic sleeve was opened and the locations of elevated PID readings identified for that specific boring section.

- Descriptions of extracted cores were recorded on a field boring log by a geologist.

- Soil samples were collected from each borehole location based on the review of the BHP plots and the field boring log. Samples were subjected to a combination of on-site gamma spectrometric, off-site radio-analytical, standard Toxicity Characteristic Leaching Procedure (TCLP), TCLP-radiological, and modified TCLP (using the landfill leachate pH) analyses.

- Extracted cores were marked to identify intervals with elevated radiation levels – these intervals were eventually collected and drummed for disposal with other FUSRAP wastes.

- PVC pipes were pulled from each borehole and prepared for off-site disposal.

- Remaining core materials were placed back into the original boreholes as well as bentonite pellets. No other back fill materials were necessary for closing the boreholes.

Borehole elevations, depths of borings, and borehole locations/description are summarized in Table 2-1. Borehole locations are illustrated in Figure 2-1. This figure shows the location of each borehole relative to historical site boundaries. A detailed description of each borehole is found in Exhibit B (Down-hole Log Summaries), Exhibit C (Field Boring Log Sheets), and Exhibit D (Down-hole Gamma Measurements).

Intrusive field activities were broken into three phases: Correlation Phase (Area A only), Phase I (define extent in Areas B and C only), and Phase II (define nature in Areas A, B, and C). The

[1]Target counting intervals in deep (greater than 40 feet) boreholes were modified during the second cycle due to time constraints. The revised approach included counts every 6 inches around intervals with elevated reading or within the last 15 feet of the borehole. Two-foot intervals were used throughout the balance of the borehole. All boreholes less than 40 feet in depth were counted using 6-inch intervals for the length of the borehole. Some exceptions were made for the deepest boreholes when the integrity of the equipment took precedence.

Correlation Phase took place from August 14 to August 15, 2001, and was intended for collecting data that would correlate down-hole gamma radiation measurements to soil concentrations. Three correlation boreholes were originally identified although four were drilled by the end of the phase. The first correlation borehole (COR0000) was 10 feet deep and was located between the historical boundaries of Areas B and C. The location was selected to represent typical background conditions at the site. The second correlation borehole (COR0001) was 19 feet deep and was located within the southwest boundary of Area A. The location was selected to represent conditions typical of MED-related residues co-mingled with landfill materials. The last two correlation boreholes (COR0002 and COR0003) were 19.5 feet and 25 feet deep, respectively, and were located within the northwestern boundary of Area A. These locations were selected to represent conditions typical of fly ash co-mingled with other landfill materials. The original location (COR0002) failed to meet this objective since no fly-ash type material was observed. Therefore, another boring (COR0003) was drilled and it did achieve the objective. All correlation borings were collected during work cycle 1.

Biased boreholes were also drilled in Area A during the Correlation Phase of the investigation. These biased boreholes were intended to supplement correlation borehole data by targeting a range of contaminant profiles including MED-related residues interbedded with landfill materials, fly ash interbedded with landfill materials, and MED-related residues deposited at or near the surface. Samples were to be collected from MED-related residue and landfill material interfaces, fly ash and landfill interfaces, and from any material exhibiting elevated radiation levels. Biased locations were selected based on a combination of historical photos, characterization data and surface gamma radiation levels. Six biased boreholes were drilled in Area A, including ARA1001-1004, ARA2001, and ARA2002. ARA1001-1004 targeted areas thought to contain subsurface layers of MED-related residues while ARA2001-2002 targeted residues deposited near the surface. All biased boreholes from Area A were collected during the first work cycle.

Phases I (define extent) and II (define nature) proceeded concurrently within Areas B and C. The initial focus was on the southwestern portion of Area C and was intended to locate small “residue piles” along the lower plateau and a former access road (see Figure 2-2). Boreholes ARC1001, ARC1002, ARC1003, and ARC1008 were drilled in this region. Later during the investigation, a series of boreholes were drilled further west along the upper edge of the slope leading to the base of the landfill (ARC2014, ARC2015, ARC2016, and ARC2017).

The middle plateau (to the east of the lower plateau) was the focus of the next effort. Boreholes ARC1005, ARC2001-2011 and ARC2018 were drilled in this middle plateau. Of these, ARC2008 reached only 30.5 feet, due to refusal.

The investigation of the upper plateau of Area C included boreholes drilled just west of the primary access road leading to the top of the main portion of the closed landfill. Boreholes ARC1006, ARC2012, ACR2013, and ARC2019 were distributed along this upper plateau to determine if MED-related residues cross over to Area B or reach as far as the main portion of the closed landfill. Each of these boreholes contained intervals with elevated radiation levels. The Area C drilling operations took place from August 17 to September 4, 2001, and identified MED-related residues well outside the historically accepted boundary.

The Area B investigation began west of ARC2019 and the primary access road. Area B drilling operations proceeded generally clockwise from ARC2019, ending back at the upper plateau and west of the primary access road. A total of ten boreholes were drilled in Area B including ARB1001, ARB2001-2008, and ARB2010. Boreholes ARB2001-2004 plus ARB1001 were drilled near the historical boundaries of Area B. The balance of the boreholes were drilled to determine the extent, if any, that

MED-related residues are distributed beyond those boundaries. The Area B drilling operations took place from September 4 through 6, 2001.

Additional intrusive activities took place during the third work cycle. This effort included removing and decontaminating the PVC pipes and replacing any remaining extracted core materials back in the borehole. Extracted cores were not placed back into the associated borehole until logging activities were complete and all contaminated intervals were separated in preparation for off-site disposal. No radiologically contaminated core materials were placed back into the boreholes.

3.0 DETAILS OF SAMPLING ACTIVITIES AND SAMPLING RESULTS

This section describes the details of sampling activities and presents the results of the Summer 2001 field investigation at the Seaway FUSRAP Site. Included in this description are Rotosonic® drilling operations, field screening measurements, down-hole gamma measurements, and soil sampling and analysis.

All gamma measurement and sampling activities were heavily dependent on the Rotosonic® drilling operations. Therefore, while no measurements or samples were physically collected by the drill rig or operators, drilling operations are described in this section to relate how the drilling method impacted down-hole gamma measurements and soil sample collection and analysis.

3.1 ROTOSONIC DRILLING OPERATIONS

The drilling operations completed 45 boreholes for a combined depth of approximately 1600 feet. This includes 10 boreholes in Area A and correlation boreholes combined, 10 boreholes in Area B, and 25 boreholes in Area C. One borehole (ARC1004) was abandoned before completion due to drill rig malfunction.

The Rotosonic® drilling operation at each borehole location can be summarized as including five steps. They are setup, drilling, core extraction, PVC placement, and PVC removal. Setup at the Seaway FUSRAP Site included the physical inspection of the target location to identify potential hazards, to ensure the best orientation of the rig and support vehicle (especially important on sloped areas), and to secure the rig in preparation for drilling. A Rotosonic® drill was used to core at the specified location targeting a borehole diameter sufficient to hold a 4-inch inner diameter PVC tube. As the drill advanced down the borehole, cored materials were fed into a steel core tube, one 5-foot section at a time (or 10-foot section used later in the investigation). Each section was extracted from the steel core tube using sonic vibrations or, if required, water pressure. The cores were extracted into plastic bags, carried to a piece of plastic sheeting near the rig, and positioned end-to-end with adjacent core sections. These activities were performed under the guidance of the project geologist and safety personnel. Once the borehole was drilled to the target depth, the operator installed thread-connected, 10-foot sections of PVC to the bottom of the hole leaving enough clearance at the top for labeling and ease of access. The bottom piece of PVC was capped to eliminate moisture infiltration. The top of the PVC was loosely capped to prevent rain or debris from falling into the tube. Having set the PVC, the drill rig was ready to proceed to the next borehole location. The rig was also used late in the investigation to remove PVC from the borehole after extracted cores were sampled and logged and down-hole gamma logging was completed.

As presented in the boring logs, core recovery was poor during drilling activities conducted in Area A and portions of Area C (see Exhibits B and C). The poor recovery and sloughing of material from the previous sampling interval sometimes made it difficult to align soil sample locations with gamma logging results. Additionally, poor recovery sometimes altogether precluded sample collection from intervals exhibiting elevated radiation levels. Recovery losses were minimized beginning with operations on the middle plateau of Area C when the drill operator began using a larger drill head and core barrels. Using the larger core barrels also reduced sloughing, thus improving the alignment of soil sample locations with down-hole gamma data.

3.2 FIELD SCREENING MEASUREMENTS

A range of field screening measurements was collected during the Summer 2001 Seaway site investigation. Measurements were made to identify elevated radiation levels on equipment, extracted cores, sample containers, etc. Field screening measurements were also completed to evaluate the safety of on-site personnel and workers who could be involved with future remedial efforts. This section summarizes the range of field screening measurements collected during the investigations.

3.2.1 Radiological Field Screening Measurements

Radiological field screening measurements were completed using a standard unshielded 2×2, a hand-held alpha scintillation detector, a bench-top swipe counter, and a shielded GM detector. All these detectors were calibrated prior to shipment to Seaway and were source checked each day of operation. Calibration certificates and daily source check logs are maintained in the project file and are not presented in this memorandum.

The 2×2 was used to screen potential borehole locations by identifying areas with surface contamination. This screening was conducted by scanning the ground surface and monitoring the count rate. A surface background level of approximately 10,000 counts per minute (cpm) was typical during the Seaway investigation but varied from borehole location to borehole location. The 2×2 was also used to identify grossly elevated radiation levels on the extracted cores. Core screening in this manner was effective in identifying intervals with elevated radiation levels, corresponding well with BHP results. Screenings results using the 2×2 were recorded in a logbook and are not presented in this memorandum.

Hand-held alpha scintillation detectors and the swipe counter were used to monitor potential contamination levels on equipment and personnel moving to and from Areas A, B, and C. All vehicles (including the drill rigs and support vehicles, rental cars, and brush clearing vehicles) were surveyed using these radiation detectors prior to entry into and before exiting an area. Vehicle screening was performed to preclude the introduction of contamination from outside sources and to preclude the spread of site-related contaminants to other areas of the site or outside site boundaries. Other equipment, personnel, and sample containers were also scanned prior to exiting or removal from Areas A, B, and C to prevent the spread of contamination. Field screening using the alpha scintillation detectors was performed and all scanned material was released according to procedures.

Surveys of vehicles, equipment, etc., were recorded on appropriate survey forms and are maintained in the project file. These forms are not presented in this memorandum. Frequent screening of personnel leaving the areas was not recorded on survey forms but was performed by qualified technicians by targeting the hands, feet, and face after the removal of protective clothing (e.g., coveralls, booties, and gloves). No personnel decontamination was required.

A GM detector was used by the sample team to record surface radiation levels on extracted cores. These field screening measurements were used to assist in the selection of sample intervals from the core and were recorded with other sample tracking information. Figure 3-1 is a plot of GM measurements versus 6-inch sample ^{226}Ra results analyzed in the on-site laboratory. Only 6-inch sample results are presented considering that a single GM measurement covering approximately 2.5 square inches (15 cm^2) may not be well represented by a sample collected over a large interval. Because 6 inches represents the smallest sample interval for the Seaway Site investigation, these samples would most accurately correlate to a single GM measurement. This plot demonstrates a clear relationship between GM count rate and ^{226}Ra concentrations. Random fluctuations contribute to the spread in the data, but outliers are likely a result of sample heterogeneity (although other radionuclides such as ^{238}U

and its decay products also contribute to the GM response). That is, the GM measures radiation from a small fraction of the sample volume while the entire soil sample volume is mixed prior to counting by the on-site laboratory. The GM measurement could be taken from a small volume of elevated activity this is diluted by the remaining volume, or, conversely, the measurement could be taken from a small volume relatively void of contaminants. This phenomenon is especially evident for the three data points above the main cluster of points [(0.45 pCi/g, 162 cpm), (2.32 pCi/g, 242 cpm), and (5.98 pCi/g, 290 cpm)]. These results are likely a result of some dilution through sample mixing. There is little that could be done to eliminate these uncertainties, but the plot in Figure 3-1 still demonstrates that the use of the GM was effective at identifying elevated radiation levels in the field.

3.2.2 Worker Safety Field Screening Measurements

In accordance with the Site Safety and Health Plan (July 2001), worker safety field screening instruments included lapel air samplers, an alpha scintillation detector with rate meter, the bench-top swipe counter, a combustible gas meter, and a PID. The lapel air sampler, bench-top swipe counter, combustible gas meter, and alpha scintillation detector were used to monitor for airborne hazards during drilling. The lapel sampler was worn by the driller and filtered the air while the rig was in operation. Filter papers were counted on the bench-top swipe counter. The alpha scintillation detector was used to monitor radiation levels on the drill head once pulled from the borehole, and the bench-top counter was used to count swipes from the drill head. The combustible gas meter was monitored during drilling operations to alert the drill team of potential hazards that may warrant a change in the level of personal protective equipment. Relevant information related to the lapel air samplers, an alpha scintillation detector with the bench-top counter, and combustible gas meter were recorded on appropriate survey forms and/or in logbooks that are maintained in the project file. This information was relevant to the safety of workers during the site investigation, whereas PID results could impact current or future workers.

PID measurements were collected to identify organic vapor concentrations above action levels. PID results were recorded on the geological log sheets and are presented in Exhibit C. These results do demonstrate the existence of elevated levels of VOCs, as would be expected in a landfill. PID results were also used to help identify soil sample locations for off-site laboratory VOC analysis (see Section 3.4.2).

3.3 DOWN-HOLE GAMMA MEASUREMENTS

All down-hole gamma measurements were collected using the shielded 2×2 with identification number BHP-25 although two detector cables were used by the end of the investigation. During the first two cycles, a 60-foot cable was used based on the original assumption that MED-related residue would be buried under *up to* 40 feet of refuse. It became clear during the investigation of Area C that residues under the upper plateau were deeper than 60 feet and several boreholes in both Areas B and C extended 40 feet or more. Therefore, BHP-25 was recalibrated with a 120-foot cable between work cycles 2 and 3. The deepest sections of ARC1006, ARC2012, ARC2013, and ARB2008 were scanned using the 120-foot cable during the third work cycle. In either case, the collection of down-hole gamma measurements generally proceeded as follows:

1. after identifying the target borehole, relevant borehole-specific information (e.g., borehole number, date, etc.) was recorded on a log sheet;

2. a tripod was erected over the top of the borehole so that the BHP would hang via metal cable directly over the PVC opening;

3. the BHP was lowered using the winch on the tripod so that the lower edge of the BHP was inside the PVC tube and level with the ground surface;

4. a 1-minute count was collected at the ground surface level, the result was recorded on the log sheet, then the BHP was lowered another 6 inches;

5. 1-minute counts were collected and recorded at each 6-inch interval until reaching the bottom of the borehole;

6. the BHP was retrieved using the winch, and the log sheets were transferred to the field office for review and maintenance; and

7. the BHP operator proceeded to the next available borehole and completed the same series of steps.

Adjustments to the above procedure were required in two cases. First, and as mentioned above, the 60-foot cable could not reach the bottom of the deeper boreholes. The 60-foot cable was also subject to strain when extended past about 50 feet, prompting the technician to collect fewer measurements past the 50-foot mark. Enough measurements were collected in these cases to identify elevated radiation levels from 50 to 60 feet, but the integrity of the detection system was the primary concern. Second, an adjustment was made to the counting frequency when it became apparent that many of the boreholes would be deeper than originally anticipated. It was important that drilling operations not get too far ahead of the down-hole measurements, as these measurements often dictated the location of subsequent boreholes. To keep the drill rig and the down-hole measurements in step, the frequency of down-hole measurements was decreased to 1 count every 2 feet until reaching the last 15 feet of the borehole. The bottom 15 feet and any interval with elevated radiation readings were still subject to a count every 6 inches. This rule was applied only to boreholes deeper than 35 feet – the 6-inch frequency was otherwise maintained throughout the duration of the investigation. Additionally, the technician scanned the entire length of each borehole for elevated reading regardless of the frequency of documented measurements.

Down-hole gamma log results are presented in Exhibit D and are summarized Table 3-1. These results were analyzed on-site during the field investigation to refine the concurrent soil sampling efforts. Comparisons of down-hole gamma data and on-site gamma spectrometry results (also see Section 3.4.1) indicate that background count rates range up to 12,000 cpm. This upper range was found to occur when measuring radiation levels of native clay or landfill cover materials (various types of soil). Counts on the order of 12,000 to 13,000 cpm were assumed to result from elevated radionuclide concentrations, and counts above 13,000 to 14,000 cpm were found consistently to correspond to elevated radionuclide concentrations in MED-related residues (confirmed with analytical data). These conclusions were drawn semi-quantitatively using two tools. First, 6-inch soil samples analyzed using the BEGe detector were compared to BHP results (See Exhibit B). Only 6-inch intervals were used to avoid complications as described in Section 2.0. Second, BHP data were graphed in a cumulative frequency plot to identify the likely range of background and a point of inflection that may indicate a break from background.

Figures 3-2, 3-3, and 3-4 present down-hole gamma data plotted against 6-inch sample BEGe results for ^{226}Ra, ^{230}Th, and ^{238}U, respectively. These figures illustrate a clear relationship between radionuclides concentration and gamma measurement indicating that the detection system effectively identified elevated radiation levels. It is also suggested by these figures that, on occasion, relatively elevated soil concentrations produced low detector responses and, on other occasions, relatively high detector

responses were produced by low soil concentrations. While a spread is expected in the data, due simply to random effects and normal detection uncertainties, outlying results are likely due to soil sampler error. As described in Section 3.1, some of the difficulties are related to sloughing or compaction of extracted cores during the drilling process making it difficult to identify the correct sample interval. It is likely that when the sample team attempted to identify the exact location associated with an elevated down-hole gamma result, they were sometimes off by as much as 6 to 12 inches. This is demonstrated in Table 3-2 using BEGe results for ^{226}Ra and ^{230}Th collected from two Area C boreholes.

Table 3-2 shows elevated soil concentrations for sample ARC1001SS060320 when the down-hole results suggest that the corresponding interval is within the range of background. It is likely that the sample team could not accurately identify the exact targeted location and improperly assigned the sample depth. In other words, it is likely that the results for sample ARC1001SS060320 (designated to represent the 26" to 32" interval) represent concentrations at depths of 3.0 feet or more. A similar argument may be made for samples ARC1005SS064020 and ARC1005SS064140. Shifting the analytical results down 6 inches better aligns the concentrations with expected results. While these shifts likely explain the outlying data points illustrated in Figures 3-2 through 3-4, the extent of shifting is not quantifiable, and corrections in the data set may not be made without introducing bias. These examples are not to suggest that shifts are required to "correct" the data set, but rather to demonstrate that the methods used are inexact due to sloughing and poor core recovery. It is also noteworthy that the in-field use of the GM helped identify targeted sample intervals. However, the GM was relatively ineffective for detecting relatively low radionuclide concentrations (see Section 3.2) and could not help alleviate complications due to core sloughing and compaction. Overall, the results validate the approach used in this investigation to identify elevated concentrations of MED-related residues.

Figure 3-5 is a cumulative frequency plot of all BHP data. The plot shows, from left to right, a small tail followed by a long, relative straight line and a slight upturn. This is followed by a dramatic increase in slope accompanied by a loss of uniformity. The long, straight line with tails is typical of a background distribution, and the plot of remaining data points is typical of contaminants (Korte and Fleischhauer 1990). It is assumed that the upper range of background is represented by the point of inflection in the curve or the "elbow." Figure 3-6 is used to focus on the elbow by limiting the range of interest from approximately 9,000 to 30,000 cpm. This range was selected given that less than 9,000 cpm is clearly within the range of background, and results greater than 30,000 cpm clearly represent the contaminant. It appears from this figure that the point of inflection occurs at approximately 12,740 cpm. This point is proceeded by some loss of uniformity characteristic of a contaminant in a cumulative frequency plot. This point is also consistent with analytical data that show that BHP results greater than approximately 13,000 cpm are typically the result of MED-related residues. It is, therefore, concluded that for the BHP used during the Seaway investigation, approximately 13,000 cpm represents a count rate outside of the range of background. The point of inflection was used when evaluating BHP data to determine background (< 12,740 cpm) and above background (> 12,740 cpm) materials within each borehole.

3.4 SOIL SAMPLING AND ANALYSIS

Soil sampling activities conducted at the Seaway FUSRAP Site may be broken into radiological and non-radiological sampling. Radiological samples include those collected for spectral analyses (e.g., gamma spectrometry) by the off-site and/or on-site laboratory. These analyses were performed to determine if identified elevated radiation levels were due to MED-related residues or other landfill materials. Spectral data may be effective to identify MED-related residues given the residues are characterized by disequilibrium in uranium decay series, and particularly by the elevated concentrations of ^{230}Th relative the ^{226}Ra and ^{238}U. Non-radiological samples include those subjected to VOC and TCLP analyses. Sample

activities and results associated with radiological and non-radiological analyses are described/presented in the following subsections.

3.4.1 Radiological Samples

All soil samples, except for those associated with boring ARC1004, were collected based on results from the BHP and visual inspection of the extracted core. (PVC pipe was not inserted into boring ARC1004 so no gamma measurements were collected.) Sample intervals were primarily selected as those with elevated radiation levels as determined by BHP data but were also selected to confirm the absence of radiological contamination. The soil sampling process generally proceeded as follows:

1. BHP data were reviewed to identify sample intervals with potential elevated radionuclide concentrations;

2. sample intervals were also identified at the interface between elevated and suspected background radiation levels and from intervals that could confirm the absence of radiological contamination;

3. the sample team used a tape measure to identify the targeted sample locations on the extracted core and collected 1-minute counts from these locations using a shielded GM detector;

4. 6-inch samples (or 8-inch in a few cases) were collected from clearly contaminated or clearly uncontaminated intervals (based on GM measurements and visual inspection);

5. 12-inch to 24-inch samples were collected from intervals between elevated and suspected background radiation levels (the thickness of target intervals depended on core recovery and/or the availability of soil-like material);

6. individual samples were mixed in a stainless steel bowl and packed into one-quart paint cans;

7. the bowl and mixing equipment were decontaminated between samples;

8. sample containers were labeled for sample tracking and shipment;

9. sample containers were wiped down and scanned for external contamination then transported to the on-site laboratory in the field office;

10. samples were counted using the on-site BEGe detector; and

11. a subset of these samples was packaged and shipped to the off-site laboratory for additional analyses as dictated in the FSP.

While the above describes the general sequence for all radiological sampling, there are a few noteworthy additions. First, use of the GM was initiated after the beginning of the Correlation Phase, prior to which only 2×2 scans were employed. Therefore, not all samples collected from the Seaway effort have associated GM measurements. Use of the GM was introduced to better identify sample locations that correspond to elevated results from the BHP (also see Section 3.1 concerning sloughing). Second, core recovery problems from some boreholes complicated or precluded sample collection (i.e., no samples were collected from intervals with no recovery). However, samples were sometimes collected from core intervals that may not correspond to associated BHP measurements. This occurred because the geological logging process assumed that all recovered material originates from the top of the core section. For

example, a logged 5-foot core section may have only had 3 feet of recovery. It was not possible to determine exactly where the recovered material originated (possibly from anywhere within the 5-foot section), so the available material was documented as if it came from the top of the section. This meant that a few samples may misrepresent actual conditions, and the geological logs (Exhibit C) together with analytical results (Exhibits E and F) may be inconsistent with BHP results (Exhibit D). In all cases the assumed depth of elevated radiation levels, and thus radiological contamination, should be based on BHP results. This assumption is valid given the systematic nature of collecting BHP data without significant depth measurement difficulties.

It is also noteworthy to state that even when BHP results and sampled intervals align perfectly, results may still appear not to correspond. This may be due to the following three factors:

- First, some samples were collected over 12- to 24-inch intervals while all down-hole gamma results were collected over 6-inch intervals. Samples were sometimes collected over 18- to 24-inch intervals to compensate for non-soil-like materials (metal, wood, paper, etc.) mixed with soil, making it difficult to impossible to correlate to a single 6-inch gamma result.

- Second, contaminated layers were sometimes less than 6 inches in thickness and/or were at depths that were not centered with counting locations. All these factors contribute to measurement uncertainty and should be considered while reviewing radioanalytical results, BHP data, and geological logs.

- Third, BHP and analytical results may also be shifted due to sloughing and/or compaction of extracted cores as described in Section 3.3.

Analytical data from the on-site laboratory (i.e., the BEGe) are presented in Exhibit E, and analytical data from the off-site laboratory are presented in Exhibit F. On-site data were generated using unprocessed samples[2] and gamma spectral analysis equipment. All radiological samples were analyzed in the on-site laboratory, a subset of which was shipped to the off-site laboratory for additional analyses (gamma and alpha spectrometry plus radon emanation). Off-site samples were processed and were subjected to as many as four different analyses including gamma spectrometry, isotopic uranium analysis, isotopic thorium analysis, and radon emanation analysis for ^{226}Ra determination. Alpha Spec and radon emanation methods were selected because they are more sensitive for the targeted radionuclides than gamma spec (including analysis using the BEGe). The off-site dataset presented in Exhibit F includes a single result for each radionuclide and sample combination, although a combination of analyses may have been used. Results for the more sensitive analyses are presented in order to streamline the data set by dropping lower quality results. For example, ^{238}U results are available by both gamma spectrometry and through isotopic uranium analyses. Because isotopic uranium analysis is a much more sensitive method, only those results are presented.

A comparison of off- and on-site data sets was conducted to evaluate the effectiveness of the on-site laboratory system. This comparison was performed considering that the on-site analytical data and the BHP data were used exclusively in the field to locate and identify potential MED-related residues. If the on-site system inadequately identified MED-related radionuclides, future efforts may require adjustments such as the inclusion of some in-field sample processing or elimination of the on-site laboratory. Alternatively, if the on-site system adequately identified MED-related radionuclides, the number of samples sent to an off-site facility could be significantly reduced. Figures 3-7, 3-8, 3-9, and 3-10 present a comparison of off- and on-site laboratory results for ^{226}Ra, ^{230}Th (full scale), ^{230}Th (partial scale), and

[2]Processing typically consists of crushing, drying, and homogenization for some analyses plus chemical manipulation for other analyses.

^{238}U, respectively. (The term ”full scale” corresponds to results up to 600 pCi/g and the term “partial scale” corresponds to results up to only 100 pCi/g.) On-site results are represented by the y-axis, and off-site results are represented by the x-axis. All on-site results are from gamma spectra while the off-site results are from radon emanation for ^{226}Ra, isotopic thorium analysis for ^{230}Th, and isotopic uranium analysis for ^{238}U. Off-site laboratory and on-site BEGe results for ^{226}Ra, ^{230}Th, and ^{238}U are also presented in Table 3-3 side-by-side for comparison.

The comparison of on- and off-site analyses in Figures 3-7 illustrates that BEGe results for ^{226}Ra are biased low by approximately a factor of 2. This bias may be due to incomplete homogenization and drying prior to BEGe counts. (Samples were not dried and homogenized prior to analysis by the BEGe but were dried and homogenized prior to off-site analyses.) Bias may also be caused by the loss of radon gas during core extraction and sample preparation. Gamma spec measurements often key off of radon decay products. If radon decay products are lost and not allowed to reestablish equilibrium with Ra-226, the Ra-226 concentrations will be underestimated. While BEGe results underestimated ^{226}Ra concentrations in the field, they were still adequate for identifying MED-related residues during the field investigation.

The comparison of on- and off-site analyses in Figure 3-8[3] illustrates that BEGe results for ^{230}Th generally correspond 1-to-1 for concentrations greater than 40 pCi/g. These results are not unexpected given that gamma radiation from ^{230}Th has a low yield, is relatively weak, and difficult to measure using gamma spec. Figure 3-9 is a re-plot of results after limiting both axes to a maximum of 100 pCi/g. This plot illustrates that there is no correlation for less than approximately 10 pCi/g and, even up to 20 pCi/g, some points seem to be randomly distributed. Regardless of limitations at lower concentrations, the BEGe ^{230}Th results were adequate for identifying MED-related residues during the field investigation.

Of the three radionuclides considered, ^{238}U results for on- and off-site analyses compare most favorably, as illustrated in Figure 3-10. The correlation between analyses appears to be 1-to-1 even at concentrations from 5 to 10 pCi/g. Results less than 5 pCi/g do not correspond as well, although, even at these concentrations, the BEGe appears to have performed adequately. Overall, the on-site ^{238}U analytical results agree well with off-site results and were adequate for identifying MED-related residues during the field investigation.

Sample ARC1008SS120320 in particular produced drastically different on-site and off-site results. These differences are illustrated in each of Figure 3-7, 3-8, and 3-10 by the data point in the lower right side of each plot. The on-site result for each radionuclide in this sample is approximately a factor of two to four less than off-site result. It is unclear why this occurred for this sample, but the discrepancy may be traced to a lack of on-site homogenization and drying. Regardless of results from this individual sample, the BEGe consistently identified MED-related residues and served as a powerful supplement to down-hole gamma measurements. This is especially true when considering all reported radionuclides and the known relative distribution of radionuclides in MED residues. That is, the BEGe adequately identified gross dis-equilibrium between members of the uranium decay series – typical for MED-related residues (see Exhibit E).

[3] Figure 3-8 include negative results. Negative values are often observed in radiological data sets when concentrations are low and/or measurement errors are relatively high. Negative values are not observed in chemical data sets because any value less than the detection limit is set to the detection limit.

3.4.2 Non-Radiological Samples

There were two types of non-radiological samples taken and shipped to an off-site laboratory for analyses. The first type was that associated with understanding the potential hazards for future remediation workers. The second type was for better understanding the waste disposal characteristics of the MED-related materials.

Data associated with the potential remediation worker hazards were evaluated by using a combination of field and laboratory measurements. First, each extracted core was scanned in the field using a Photovac Micro Tip PID to detect elevated levels of VOCs. Second, prior to conducting the BHP scanning and taking soil samples for radiological analysis, samples were collected from core locations with the highest readings, two in Area A and one from the reference boring. These samples were analyzed for VOCs, and the sample from the correlation hole was also analyzed for semi-volatile organics, metals, PCBs and pesticides.

Standard TCLP tests were performed to define the waste disposal characteristics of the MED-related materials. Soil samples were collected from a number of borings in Area A and Area C as well as the reference boring. A total of 55 samples were taken from locations that appeared to contain MED-related materials.

3.5 FIELD OBSERVATIONS, MEASUREMENTS AND SAMPLING RESULTS

The results of the on-site measurements and on-site sample analyses are compiled in Exhibits C, D, E and G. The results of the sample analyses conducted in the off-site laboratory are complied in Exhibit F. The findings of field observations, measurements and sampling results are further described on Section 4.

4.0 DATA EVALUATION

4.1 EXTENT OF CONTAMINATION IN AREAS B AND C

As discussed in Sections 3.3 and 3.4, the down-hole gamma logging results used in conjunction with the on-site spectrometry analysis can reliably be used to delineate MED-related residues within the Seaway Site. This delineation includes both lateral and vertical extent as well as determining the concentrations of MED-related radionuclides. Extent of contamination was defined in part in Section 3.3 (see Table 3-1). However, to account for possible mixing of materials above and below the MED-contaminated lens, the zone of contamination for a given boring may be extended slightly (i.e., beyond 13,000 cpm). The zones of MED-related residues are illustrated in Exhibit G using a more liberal designation threshold. For definition of extent, the threshold is defined as including intervals with BHP results that include suspected MED-related residues and exhibit a clear deviation from adjacent "background" materials.

These designated zones for individual boreholes were then grouped with adjacent boreholes forming cross sections across Areas B and C. A series of seven cross sections were developed to illustrate lens characteristics (i.e., thickness, length, depth, etc.). The cross sections evaluated are shown in Figure 4-1 and 4-2. Figure 4-1 delineates the boring locations and cross sections relative to existing conditions, while Figure 4-2 delineates them relative to conditions at the site in 1974. The cross sections are shown in Figures 4-3 through 4-8.

As shown in Figure 4-3 for cross section A-A', the MED-related material extends from one end of Area C through to the other end of Area B and increases in thickness near the middle (under the upper plateau). As discovered in the field and as indicated by this cross section, the MED-related materials extended well beyond the historically designated areas. Cross sections D-D' and E-E' also indicate that the MED-related residues are located beyond historical boundaries in a direction perpendicular to cross-section A-A'. As shown in Figure 4-2 and cross section C-C', the extent of MED-related materials towards the southern closed portion of the landfill is limited by the steep slope that existed when the materials were placed in the landfill. Material apparently was moved towards the edge of the slope and ran down the side, thus becoming a thinner layer of contamination from the top of the slope towards the bottom where another landfill access road was located. These results when used in conjunction with the 1974 aerial photograph indicate that MED-related materials were likely spread throughout Areas B and C during on-going landfill operations and while residues were being removed from Ashland 1.

The extent of contamination was estimated using the cross sections, the down-hole gamma results and the 1974 aerial photograph. The estimated lateral extent and thickness of MED-related residues is illustrated in Figure 4-9. Figure 4-9 shows that some areas were assumed to be contaminated although no BHP data are available. Figure 4-10 illustrates the lateral extent projected onto an aerial photograph representing current site conditions. As illustrated in this figure, some material (~6-inch thick) is projected to be under portions of the capped landfill. The assumption that there may be contamination in those areas was based on a combination of the historical photographs and the recent field investigation results which found that contamination went right to the edge of the closed portion of the landfill and no "clean edge" could be found at the edge of the closed portion. The major areas of contamination are located approximately thirty (30) feet above the bottom of the landfill (elevation approximately 600 ft above mean sea level) and the leachate collection system. The in-situ volume of material was estimated using the tabulated cross-sections for each of the areas of contamination and the associated incremental thickness as shown in Table 4-1. Based on the results, the in-situ volume of MED-related residues in Areas B and C, combined, is approximately 23,000 yd^3. The original in-situ volume estimate for Areas B and C combined was 15,400 yd^3 (USACE 1999). This estimate was based on the data collected by Oak Ridge National

Laboratory (ORNL) and the use of 3-dimensional modeling. In-situ volume and overburden estimates based on the summer 2001 investigation have not yet been incorporated into cost estimates or any removal alternatives associated with Areas B and C.

In evaluating Figures 4-2 through 4-8, most of the MED-related material was under 5 to 10 feet of landfill materials when ORNL performed designation surveys for the Department of Energy. Only a few contaminated areas were visible at the surface in 1976 and could have been detected by ORNL. This assumption is supported by statements made in the ORNL report (ORNL 1978) indicating the discovery of small isolated mounds of residues in Areas B and C. Most of the contamination was buried beneath landfill materials between Areas B and C and would not have discernible by ORNL during their surface survey.

4.2 NATURE OF MED-RELATED RESIDUES

The purpose of this section is to use data collected during the summer 2001 Seaway Site investigation to describe the nature of MED-related residues in Areas A, B, and C in terms of mobility. This description is limited to radiological constituents and was achieved using BHP data, boreholes logs, radioanalytical data, a basic mass balance equation, and the RESRAD code. The mass balance equation was used to estimate radionuclide-specific leach rates and is similar to that from the Brookhaven National Laboratory's Disposal Unit Source Term (DUST) model. RESRAD was used to estimate the rainwater infiltration rate and radionuclide-specific distribution coefficients (K_ds). Given the leach rates and K_ds, RESRAD was then used to evaluate the potential and magnitude of MED-related radionuclides reaching the leachate collection system.

Three equations were used to describe (i.e., model) the nature of MED-related residues currently found at the Seaway Site. For modeling purposes all MED-related residues were conservatively assumed to be located in an area not covered by the engineered final closure cap which exists on the remainder of the Site and all MED-related residues were conservatively assumed to be at the surface exposed to the environment. These equations, presented and described below, are for the infiltration rate (Equation 1), radionuclide-specific leach rates (Equation 2), and radionuclide-specific K_ds (Equation 3):

$$I = (1 - c_e) \times [(1-c_r) \times P_r + I_{rr}] = (1-c_e) \times (1-c_r) \times P_r \qquad \textbf{Eq. 1}$$

Variable	Units	Value	Comment
I	m/yr	0.37	Calculated infiltration rate per RESRAD (ANL 2001, Eq. E.4)
c_r	unitless	0.6	Runoff coefficient for hilly cultivated (disturbed) land with intermediate combinations of clay and loam; assumed site-wide condition (ANL 2001, Table E.1)
c_e	unitless	0.5	Evapo. coefficient assuming 50% of the available water is transferred to the atmosphere while 50% is transferred to the water aquifer; RESRAD default
P_r	m/yr	1.23	Measured precipitation rate (DOE 1993)
I_{rr}	m/yr	0.0	Assumes no irrigation

$$L_k = (I \times a \times C_{wk} \times CF1 \times CF2) / (C_{sk} \times r \times v)$$ **Eq. 2**

Variable	Units	Value	Comment
L_k	yr^{-1}	Varies	Leach rate for radionuclide "k" as measured from a soil sample (derived using basic mass balance equation similar to that used in DUST model)
I	m/yr	0.37	Calculated infiltration rate (see Eq. 1)
a	cm^2	16.4	Calculated soil sample area (v2/3) – assumed a cubic volume
C_{wk}	pCi/L	Varies	Measured concentration of radionuclide "k" in the TCLP solution
CF1	L/cm^3	0.001	Conversion factor 1
CF2	cm/m	100	Conversion factor 2
C_{sk}	pCi/g	Varies	Measured concentration of radionuclide "k" in the soil sample
ρ	g/cm^3	1.5	Assumed soil density – RESRAD default
v	cm^3	66.7	Volume of sample (aliquot) subjected to TCLP analysis

$$K_{dk} = (I/\rho) \times [1/(L_k \times T_o) - (p_t/K_{sat})^{1/(2\times b + 3)}]$$ **Eq. 3**

Variable	Units	Value	Comment
K_{dk}	cm^3/g	Varies	Calculated distribution coefficient for radionuclide "k" (ANL 2001, Appendix E, Eqs. E.3, E.5, E.6, E.7, and E.8); derived by solving multiple equations for K_d
I	m/yr	0.37	Calculated infiltration rate (see Eq. 1 and Eq. 2)
ρ	g/cm^3	1.5	Assumed soil density (see Eq. 2)
L_k	yr^{-1}	Varies	Leach rate for radionuclide "k" (see Eq. 2)
T_o	m	0.6	Estimated thickness of MED residue lens (~ 2 ft assumed)
p_t	unitless	0.492	Total porosity = saturated water constant (ANL 2001, Table E.2); silty clay assumed based on borehole logs
K_{sat}	m/yr	32.6	Hydraulic conductivity (ANL 2001, Table E.2); silty clay assumed
b	unitless	10.40	Soil-specific exponential parameter (ANL 2001, Table E.2); silty clay assumed based on borehole logs

Alternatively, K_d may be calculated by taking the ratio of soil concentration (pCi/g) to the concentration in TCLP (acidic) solution (pCi/cm^3). Estimated K_d values using both Equation 3 and the alternate method, plus leach rate estimates from Equation 2 are presented in Table 4-2. Concentrations in solid media (e.g., soil, fly ash, etc.) and TCLP solution are also provided as reported from the off-site analytical laboratory. This table is divided into MED-related and non-MED-related categories. MED-related was defined as soil materials containing ^{230}Th concentrations greater than four times the ^{238}U concentration (based on breaks in the off-site analytical data). It was assumed based in borehole logs and BHP results that the MED-related materials are predominantly made up of silty-clay-like material. It was also assumed, based upon BHP results and Table 3-1, that the average contaminated lens in Areas A, B, and C is approximately two feet thick. Table 4-2 presents K_d estimates for ^{226}Ra, ^{230}Th, and ^{238}U since these are the primary radiological contaminants (in terms of concentration) in MED-related residues at Seaway.

The K_d estimates presented in Table 4-2 indicate that the alternate calculation method described above consistently produces estimates an order of magnitude larger than that calculated using Equations 1 through 3. However, the mass-balance/RESRAD method produces more conservative (lower) K_d values. The K_d estimates from both approaches were used in RESRAD to estimate the potential of MED-related radionuclides migrating to the leachate collection system. RESRAD output for both "runs" is presented in Exhibit F-1.

RESRAD runs were completed using the average K_d values for a constant 2-ft contaminated lens and a 28-ft uncontaminated lens (erosion rate set to 0.0 m/yr). A depth to the leachate collection system of 2+28 = 30 ft was used assuming a typical contamination elevation of approximately 630 ft above mean sea level (see Table 3-1) and assuming the clay layer that is part of the leachate collection system is located at approximately 600 ft above mean sea level (see borehole log for SEAARA2017). Calculations were completed for years 0.0 (now), 1.0, 10, 100, 300, 600, 800, 900, and 1000. Except as noted and as listed under Equations 1 through 3, other RESRAD parameters were left as default values. Defaults were used instead of attempting to produce parameter values for complex composite or multi-layered materials. Results from both RESRAD runs show that, given the above parameters and the K_d values listed in Table 4-2, neither uranium, radium, nor thorium would reach the leachate collection system within the 1000 years evaluation period. These results indicate that the MED-related residues at Seaway have an insignificant impact on leachate collection system concentrations at Seaway.

4.3 WASTE DISPOSAL CHARACTERISTICS AND REMEDIAL WORKER SAFETY

As discussed in Section 3.4.2, there were two types of non-radiological samples collected and shipped to an off-site laboratory for analyses. The first type was that associated with understanding the potential hazards for future remediation workers. The second type was for better understanding the waste disposal characteristics of the MED-related materials.

4.3.1 Remedial Worker Safety

Each extracted core was scanned using a Photovac Micro Tip PID to detect elevated levels of volatile organics. Readings were taken every 2 feet. Elevated PID readings were recorded throughout Areas A, B, and C, as may be expected in a landfill setting. The results of those PID readings are included on the geologic logs contained in Exhibit C. Core samples were collected from the interval associated with elevated PID readings from three borings, two in Area A and one from the reference boring. All of these samples were analyzed for VOCs. The sample from the correlation boring was also analyzed for semi-volatile organics, metals, PCBs and pesticides since this sample location would represent the characteristics of the landfill material above the MED materials in Areas B and C that a remedial worker would be handling. The results of these analyses are contained in Table 4-3. The two borings selected in Area A (borings ARA1002 and ARA1003) were from intervals where the PID readings were off-scale. Based on the results presented in Table 4-3 and the PID readings, hazards appear to be limited to those typical of a landfill (i.e., volatile and semi-volatile organics that may present a breathing or skin contact hazard and combustible gas such as methane and standard personal protective equipment would be required to address non-radiological hazards).

4.3.2 Waste Disposal Characteristics

There is no known documentation indicating that EPA listed hazardous waste was placed in the areas designated Areas A, B and C. Therefore, any materials removed during a remediation effort would have to be characterized to determine if the material is a characteristic hazardous waste using the TCLP procedures and associated criteria established by the EPA.

Standard TCLP tests were performed to define the waste disposal characteristics of MED-related residues. These tests were performed on samples from Area A, Area C and from the reference boring. TCLP results

are tabulated in Table 4-4 where they are compared to the appropriate regulatory limits. The results indicate that no materials sampled during the investigation are classified as a hazardous waste. Therefore, the MED-related residues, if excavated, could be managed as a radiological waste only [i.e., not radiological plus hazardous (mixed) waste]. Additionally, measured radionuclide concentrations (see Exhibits E and F) are well within acceptable ranges from most licensed or permitted waste disposal facilities.

During the field sampling activity, the determination was made not to perform the paint filter tests. This decision was made since the soil samples, as well as the removed borings, were relatively dry with little to no water content.

The remaining waste disposal characterization information (soil pH, cyanide reactivity, and sulfide reactivity) was reported for five samples. The results shown in Table 4-5 indicate that excavated materials should meet acceptance criteria for radiological waste disposal facilities.

4.4 LANDFILL LEACHATE COLLECTION SYSTEM SAMPLING RESULTS

As indicated in Section 2, samples were collected from the landfill leachate collection system on four separate occasions. These samples were analyzed for various radionuclides. The sampling was conducted using the same procedures and protocols used for the routine leachate sampling for the landfill conducted by BFI. The use of the same protocols was to allow for consistency in how the samples were taken between this effort for FUSRAP and the on-going efforts at the landfill should comparison of results between the two efforts be desired in the future. The sampling events occurred in August 2000, January 2001, April 2001, and July 2001. The field reports for those events indicating which instruments were used and the sampling conditions are contained in Exhibit H. Also contained in Exhibit H for each sampling event are the analytical results from the laboratory. A review of the analytical results indicates that most of the positive results are at or near the sample-specific detection limits. A summary of the results of those sampling events are presented in Table 4-6.

Table 4-6 lists analytical results from the leachate collection system covering August 2000, January 2001, April 2001, and July 2001. These results indicate the presence of uranium and radium isotopes in the collection system. Uranium results include uranium-234 with a concentration range of 3.42 to 10.14 pCi/L and uranium-238 with a concentration range of 1.83 to 10.61 pCi/L (primary samples only; i.e., excluding QA/QC samples). Radium results include radium-226 with a concentration range of 1.23 to 2.78 pCi/L and radium-228 with a concentration range of 1.16 (estimated) to 3.02 pCi/L (primary samples only).

Section 4.2 of this memorandum present arguments that the MED-related residues do not impact the leachate collection system. This argument is made by using conservatively estimate distribution coefficients, by ignoring current overburden or future engineered caps (residues are covered by as much as 70 ft of refuse), and by using reasonable site-wide parameter assumptions. Calculations show that neither thorium, radium, nor uranium from MED residues should reach the leachate collection system within a 1000-year evaluation period.

The summer 2001 Seaway investigation identified two potential non-MED-related sources of radium and uranium. The potential sources are fly ash and native clay. Aerial photographs and anecdotal information indicate the presence of significant quantities of fly ash within the landfill complex. Fly ash is known to contain elevated levels of naturally occurring radioactive materials (i.e., radium, uranium, etc.), ash was encountered during the investigation, and ash is likely distributed in large quantities throughout the entire landfill (closed or otherwise). Sample ARA2002SS081620 specifically exhibits the physical properties of

ash and contained elevated concentrations of radium and uranium without exhibiting MED-related characteristics such as disequilibrium within the ^{238}U decay series. Therefore, it is reasonable to assume that fly ash contributes to the radium and uranium concentrations in the leachate collection system. The investigation also encountered relatively elevated radiation levels from the natural clay lining the bottom of the landfill (see results for borehole ARC2017). The elevated radiation levels likely come from natural occurring radionuclides that are in direct contact with the leachate collection system. Therefore, it is reasonable to assume that natural clay contributes to the radium and uranium concentrations in the leachate collection system.

Analysis of site data (including soil sample results, TCLP results, and other data from the summer 2001 investigation, and leachate collection samples from years 2000 and 2001) indicate that MED-related residues are not impacting the leachate collection system now nor should they within the next 1000 years. These data also point to other landfill constituents as potential sources of low activity levels of the uranium and radium in leachate collection system samples. The other constituents include the large quantities of fly ash that are distributed throughout the landfill and native clay located at the collection system interface. Both fly ash and the native clay were found to contain elevated radiation levels.

5.0 QUALITY CONTROL AND QUALITY ASSURANCE

The purpose of this section is to review the quality control (QC) and quality assurance (QA) measures implemented during the Summer 2001 Seaway Site investigation. This review is mostly qualitative although the associated documentation is available for review in the project files, including the QAPP (USACE 2001c), the analytical laboratory statement of work (USACE 2001a), and associated data validation reports. Exhibit I contains the chain of custody sheets for all samples shipped to the off-site laboratory for analyses.

5.1 QUALITY CONTROL

QC for the Seaway investigation included the collection of duplicate soil samples for field measurements, analysis of laboratory duplicates, spikes and blanks for on- and off-site analyses, and daily field instrument source checks.

Duplicate BHP measurements were collected at a frequency of one duplicate per ten primary measurements. These results are provided in Exhibit D, which shows negligible differences between primary and duplicate measurements. Duplicate soil samples were collected at a frequency of one duplicate per ten primary samples. Duplicate samples were designated in the sample identification number by using a “1” as the last digit (a “0” was used for primary samples). Both the on-site and the off-site laboratories also completed duplicate, spike, and blank measurements as indicated in Exhibits E and F for on- and off-site results, respectively. Validation reports for radiological and non-radiological analyses are also available in the project file. Overall, the following number of primary and duplicate samples/measurements were collected:

- 70 primary and 9 duplicate soil samples were collected and subjected to off-site radio-analytical analysis;
- 57 primary and 1 duplicate soil sample were collected and subjected to off-site chemical analysis; and
- 2206 primary and 218 duplicate BHP measurements were collected during the investigation.

Same-day source checks were performed on each instrument used in the field. This includes the PID, BHP, GM, and other instruments associated with worker safety or characterization. Daily source checks were documented on appropriate forms and/or in logbooks, which are maintained in the project file. All source checks were performed by a qualified technician, and any instrument performing outside of the specified range was either repaired or taken out of service.

5.2 QUALITY ASSURANCE

Direct oversight of field activities included the review of BHP results and the review of daily source check logs. Original hard-copy down-hole gamma results were reviewed by the field manager, entered into an electronic file, and then checked again by the BHP technician. Similar checks were performed on all entries in Exhibit D to assure proper representation of down-hole gamma and associated data. Daily source check logs were reviewed by qualified personnel and are maintained in the project file.

QA measures for the Seaway investigation also include the maintenance of the project file. The project file contains all relevant records, reports, logs, field logbooks, subcontractor reports, correspondence, and chain-of-custody forms. Likewise, the off-site analytical laboratory maintains original analytical raw data information (both hard copy and electronic). Also included with the project file are the Field Change Requests (FCRs) processed as a result of conditions found in the field. These FCRs are included in Exhibit J. The off-site laboratory results were validated to ensure data quality and usability. A Quality Assurance Summary Report for the off-site laboratory results and the associated validation efforts is included in Exhibit K.

6.0 FINDINGS AND CONCLUSIONS

Seaway Site investigation activities, which took place from August 13 through September 21, 2001, were conducted in accordance with procedures outlined in the FSP, the TPP, and the scoping document. The investigation provided additional limited characterization of Areas A, B, and C and supplements the information already available from the RI (BNI 1993) and other previous investigations. Specifically, this investigation improved site knowledge of the following:

1. the extent of MED-related residues in Areas B and C;
2. the nature of MED-related residues in Areas A, B, and C; and
3. MED-related waste disposal characteristics and potential impacts on remediation worker safety.

6.1 EXTENT OF MED-RELATED RESIDUES IN AREAS B AND C

The investigation produced a revised volume of approximately 23,000 yd^3, up approximately 50 percent from the previous estimate of 15,400 yd^3 indicated in the RI. The investigation also identified significant contamination outside of the historically accepted boundaries of Areas B and C. In fact, the data shows that Areas B and C are connected by a continuous lens of contamination ranging up to 6 ft in thickness. It appears from this investigation that MED-related residues, brought over during removal activities at the Ashland 1 site, were spread across and between Areas A and B. Residues may have been used as cover material as part of daily landfill operations. The investigation also shows that most of the MED-related residues in Areas B and C are located at an elevation of approximately 630 ft above mean sea level, or approximately 30 ft above the leachate collection system. Data also indicate that MED-related residues are in some cases buried under as much as 70 ft of landfill refuse (borehole ARC2012) and may extend under closed portions of the landfill.

6.2 NATURE OF MED-RELATED RESIDUES IN AREAS A, B AND C

Data from the investigation were used to evaluate whether or not MED-related radionuclides are likely to migrate to the leachate collection system. A basic mass balance equation and the RESRAD computer code were used to estimate the leachability of radium, thorium, and uranium isotopes in Seaway Areas A, B, and C. RESRAD was then used to model isotope migration from a silty clay contaminated lens located at the surface, down through the landfill, and to the underlying leachate collection system. Modeled results indicate that neither uranium, radium, nor thorium will reach the leachate collection system within the next 1,000 years. Based on these results it is concluded that MED-related residues in Areas A, B, and C likely have little to no impact on the leachate concentrations of radium, thorium, and uranium. This conclusion is based on the modeled mass-balance/RESRAD approach but is supported by physical data including BHP and borehole (geological) logs which indicated that MED-related materials are not migrating.

6.3 MED-RELATED WASTE DISPOSAL CHARACTERISTICS AND POTENTIAL IMPACTS ON REMEDIATION WORKER SAFETY

All samples collected for comparison to RCRA waste disposal criteria produced results less than the associated limits. This indicates that materials excavated from the Seaway Site should not be considered mixed waste and are not subject to mixed waste requirements. Data collected during the investigation do suggest that remediation workers should carefully monitor air quality for radiological and VOC constituents. That is, there are known radiological contaminants that could produce internal radiological

exposure and PID measurements were off-scale at a number of borehole locations. The potential for radiological doses from the inhalation pathway is relevant even though no inhalation doses were observed during the limited intrusive activities during this investigation. Typically, inhalation doses are not expected during limited intrusive activities as these are not usually activities which generate significant dust. The potential to generate significant dust during a remedial action is, however, much greater. Otherwise, remediation workers should conduct excavation activities as usual for low level radiological contamination buried in a municipal landfill.

6.4 CONCLUSIONS

The following is a restatement of the principle study questions (PSQs) identified in Section 2.1.2 along with the answers based on the data collected during the summer 2001 investigation. A general summary is then presented to evaluate of the utilized field screening techniques as they could apply to this and potential future investigations.:

PSQ-1. Do MED-related residues exist in small, isolated piles or as otherwise described in the RI report (BNI 1993)?

Answer to PSQ-1. No. MED-related residues are not present in small, isolated piles but instead extend as a continuous lens well beyond historical boundaries and potentially under the existing landfill cap.

PSQ-2. Are MED-related residues at some locations buried under as much as 40 feet of refuse?

Answer to PSQ-2. Yes. MED-related in Areas B and C are buried below as much as 70 feet of refuse. The investigation also revealed the potential for much deeper materials as drilling operation identified MED-related residues at the boundary with the landfill cap.

PSQ-3. Are radionuclides in MED-related residues leaching in sufficient quantities to impact the local leachate collection system?

Answer to PSQ-3. No. Data collected during the 2001 investigation suggest that MED-related materials in Seaway Areas A, B, and C **are not** leaching in sufficient quantities to impact the local leachate collection system.

PSQ-4. Could fly ash or other materials deposited in the landfill produce sufficient radioactivity to interfere with the remediation of MED-related residues?

Answer to PSQ-4. No. Data collected during the 2001 investigation suggest that fly ash or other materials deposited in the landfill **would not** produce sufficient radioactivity to interfere with the remediation of MED-related residues.

PSQ-5. Do landfill materials (MED-related or otherwise) contain VOCs or other constitutes at concentrations sufficient to pose a hazard to future remediation workers, or levels that require handling as hazardous wastes?

Answer to PSQ-5. No. Data collected during the 2001 investigation suggest that landfill materials **would not** pose hazards to future remediation workers beyond those typically encountered during landfill operations (e.g., use a PID and other standard equipment).

PSQ-6. If the answers to PSQ-1 and PSQ-2 are “no,” Do MED-related residues extend under the closed portions of the existing landfill?

Answer to PSQ-6. Yes. Med-related residues were identified leading to and at the edge of the landfill can. All indication is that the residues extend to under the cap.

PSQ-7. If the answer to PSQ-4 is “yes,” Are there features that distinguish MED-related residues from other constituents exhibiting elevated levels of radiation?

Answer to PSQ-7. The answer to PSQ-4 is “no” as MED-related residues were easily distinguishable from non-MED materials using the available field screening instruments.

Results from this investigation indicate that the shielded 2×2 in combination with the on-site gamma spec system were effective and efficient for identifying buried radiological waste. The BHP consistently identified areas of elevated levels of radiological concentrations and when used with the on-site BEGe system, able to determine whether the residues were MED-related or not. In some cases, the elevated levels were found to be due to MED-related residues and, in some cases, elevated radiological concentrations from non-MED-related materials, such as fly ash and native clay. The BEGe effectively identified MED-related radionuclides in samples. Use of a shielded verses unshielded 2×2 plus the on-site BEGe detector served as effective optimization tools, improved overall data quality and the ability to make real-time field decisions, and contributed significantly to the achievement of project goals. The Rotosonic drill proved overall to be an effective tool for completing boreholes in a landfill setting. Borehole operation were hampered by sporadic low recovery until a larger drill head was used and core sloughing and compression sometimes made sample depth assignments difficult. However, drilling operations conducted as described allowed for the successful achievement of project goals.

In summary, the 2001 Seaway Site investigation successfully achieved project goals and significantly improved site knowledge related to MED-related residues.

7.0 REFERENCES

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USACE 2001c. *Sampling and Analysis Plan, Volume 2 – Quality Assurance Project Plan, Seaway Site Areas A, B, and C, Tonawanda, New York*. Prepared by SAIC for the Buffalo District, July.

U.S. Department of Energy (DOE) 1993. *Baseline Risk Assessment for the Tonawanda Site*. DOE/OR-21950-003, August.

FIGURES

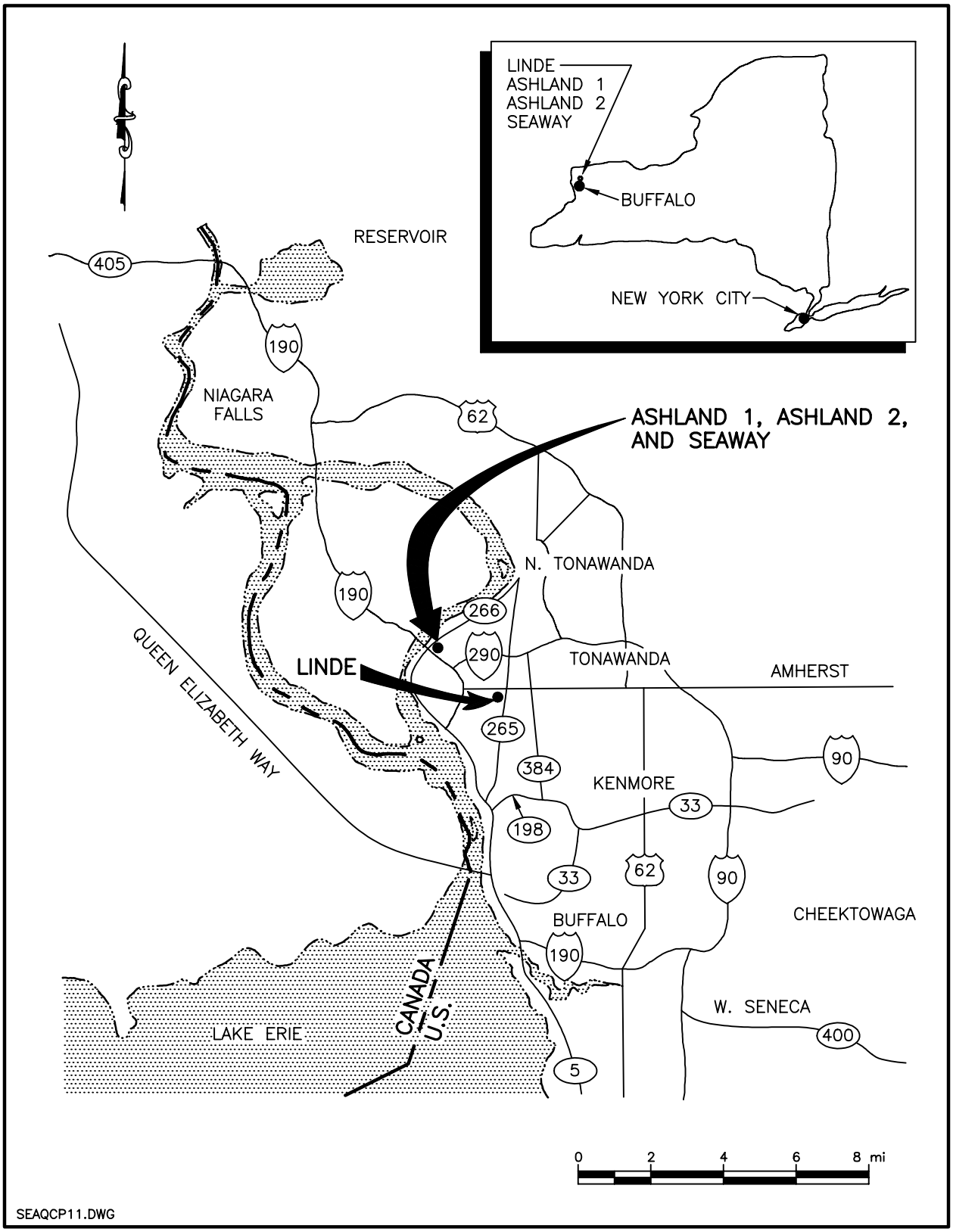
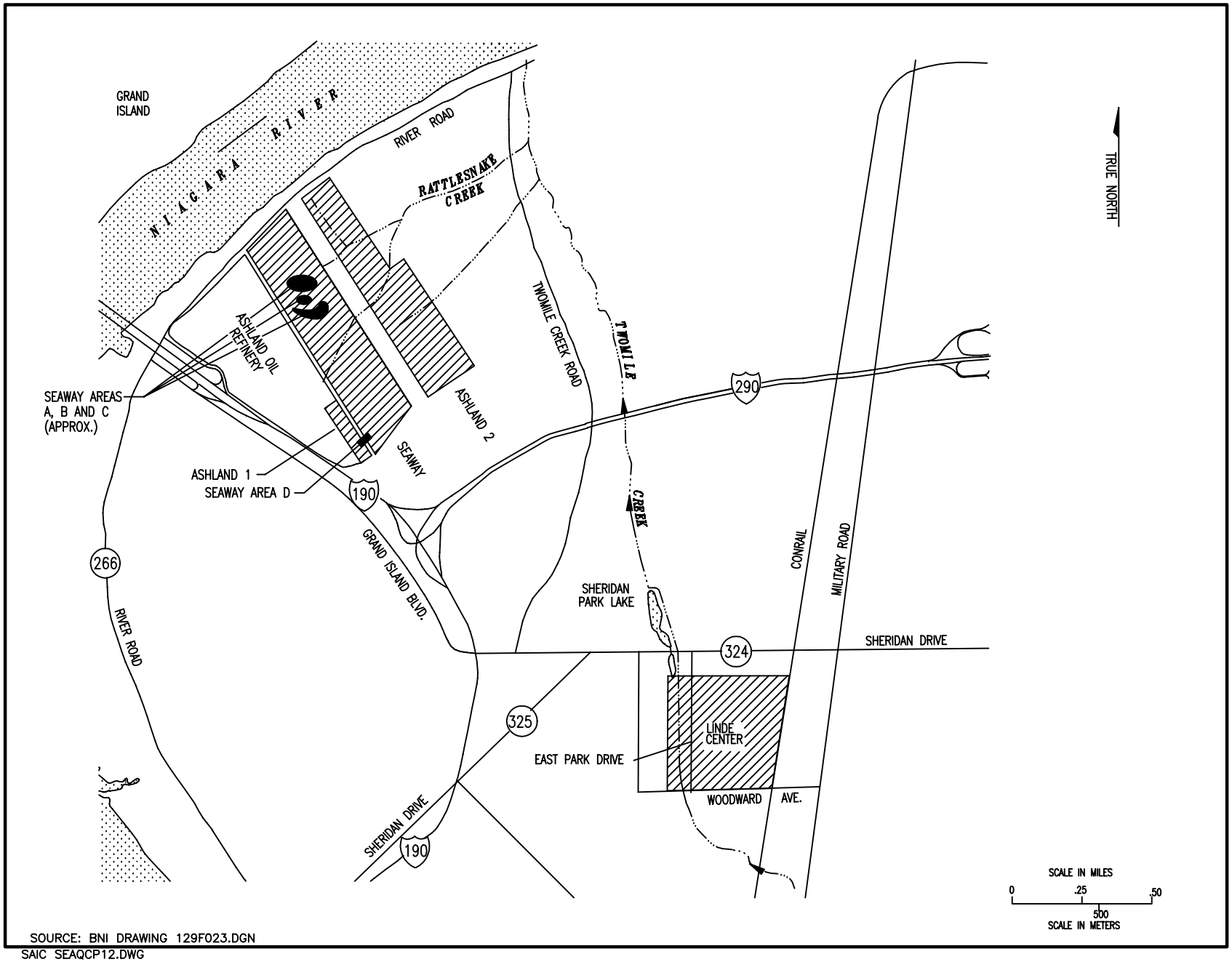


FIGURE 1-1
LOCATION OF THE TOWN OF TONAWANDA, NEW YORK AND ASHLAND 1, ASHLAND 2, SEAWAY AND LINDE SITES



SOURCE: BNI DRAWING 129F023.DGN
SAIC SEAQCP12.DWG

FIGURE 1–2
LOCATIONS OF THE ASHLAND 1, ASHLAND 2, SEAWAY AND LINDE SITES

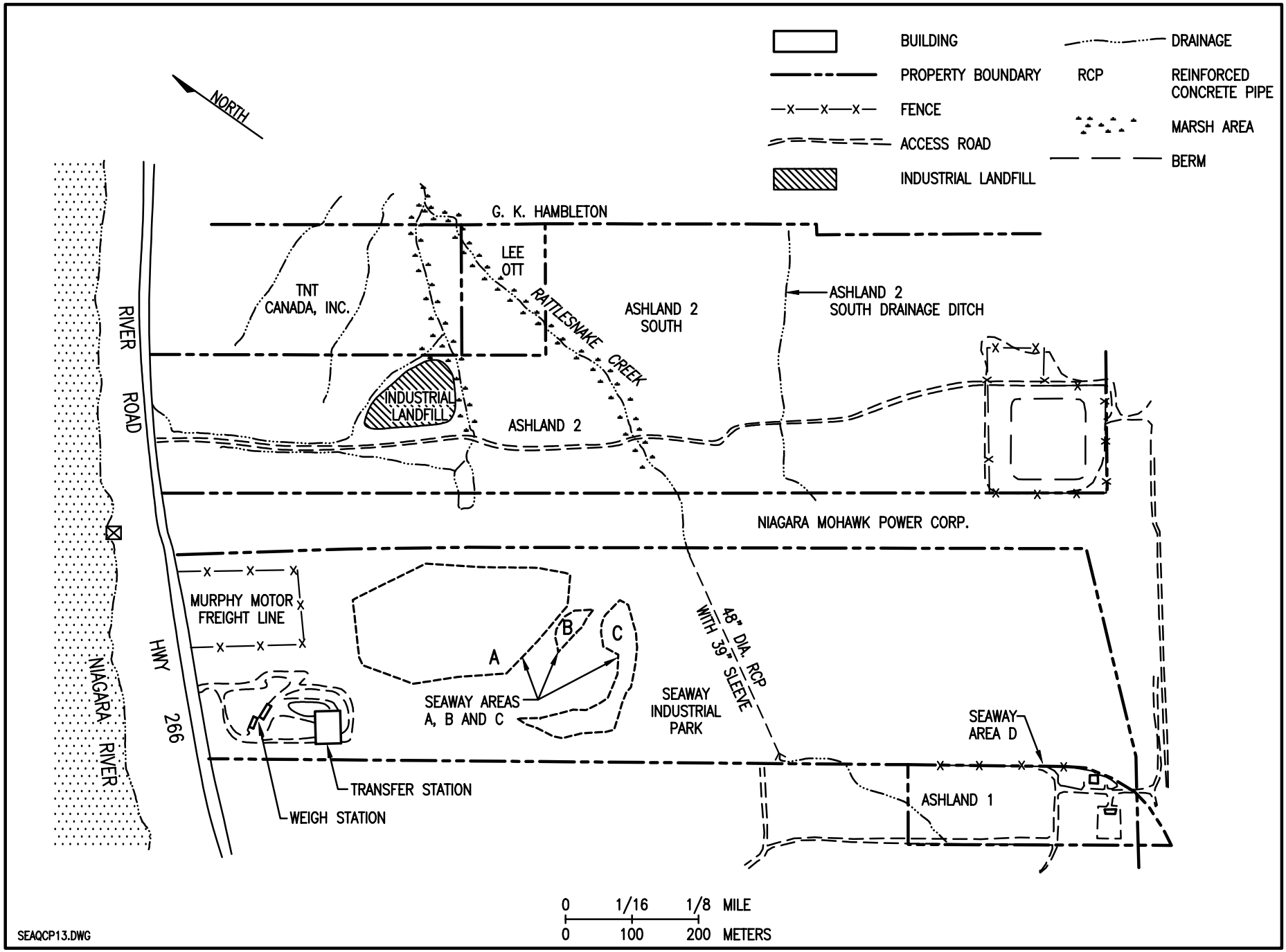
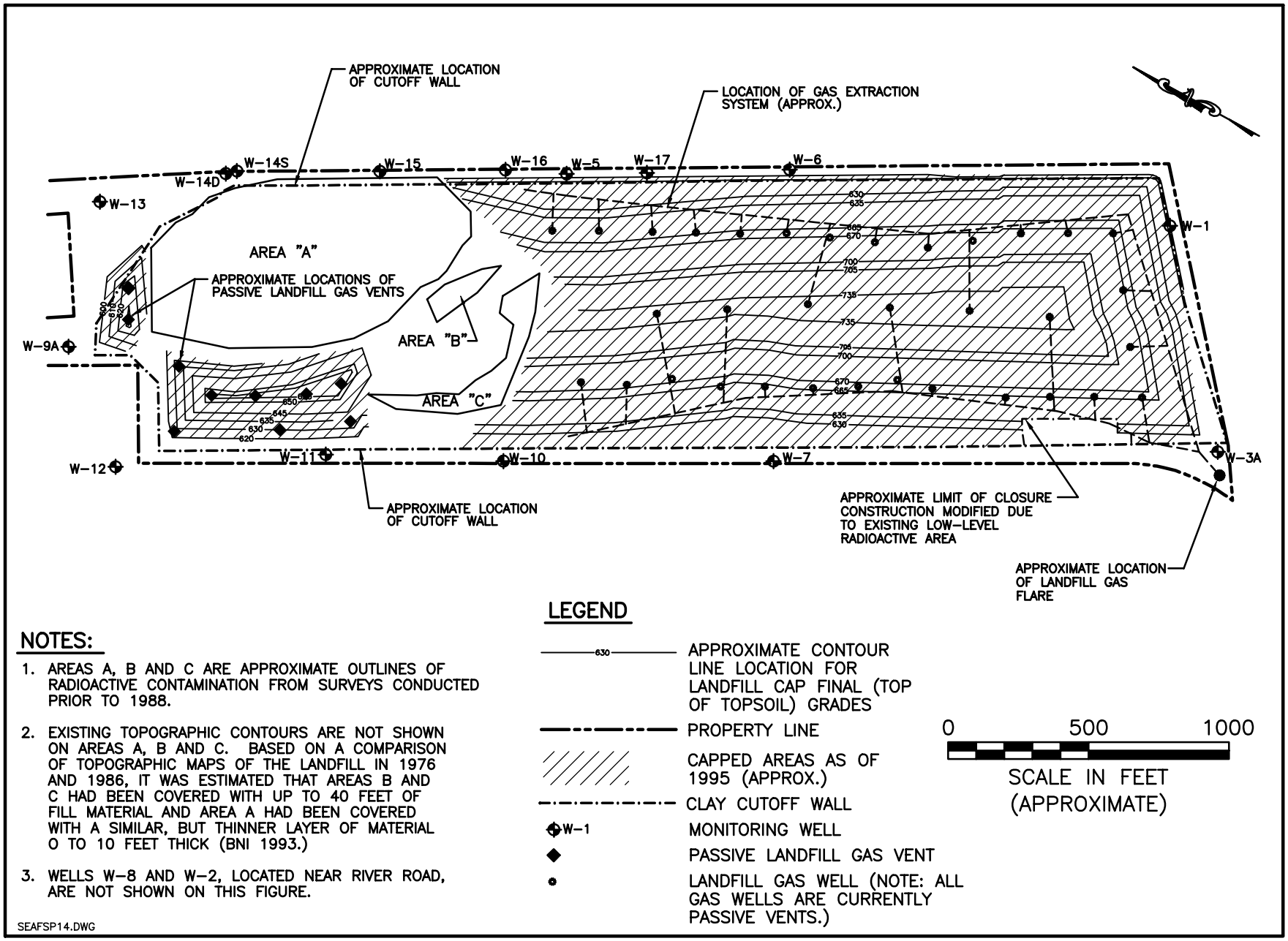


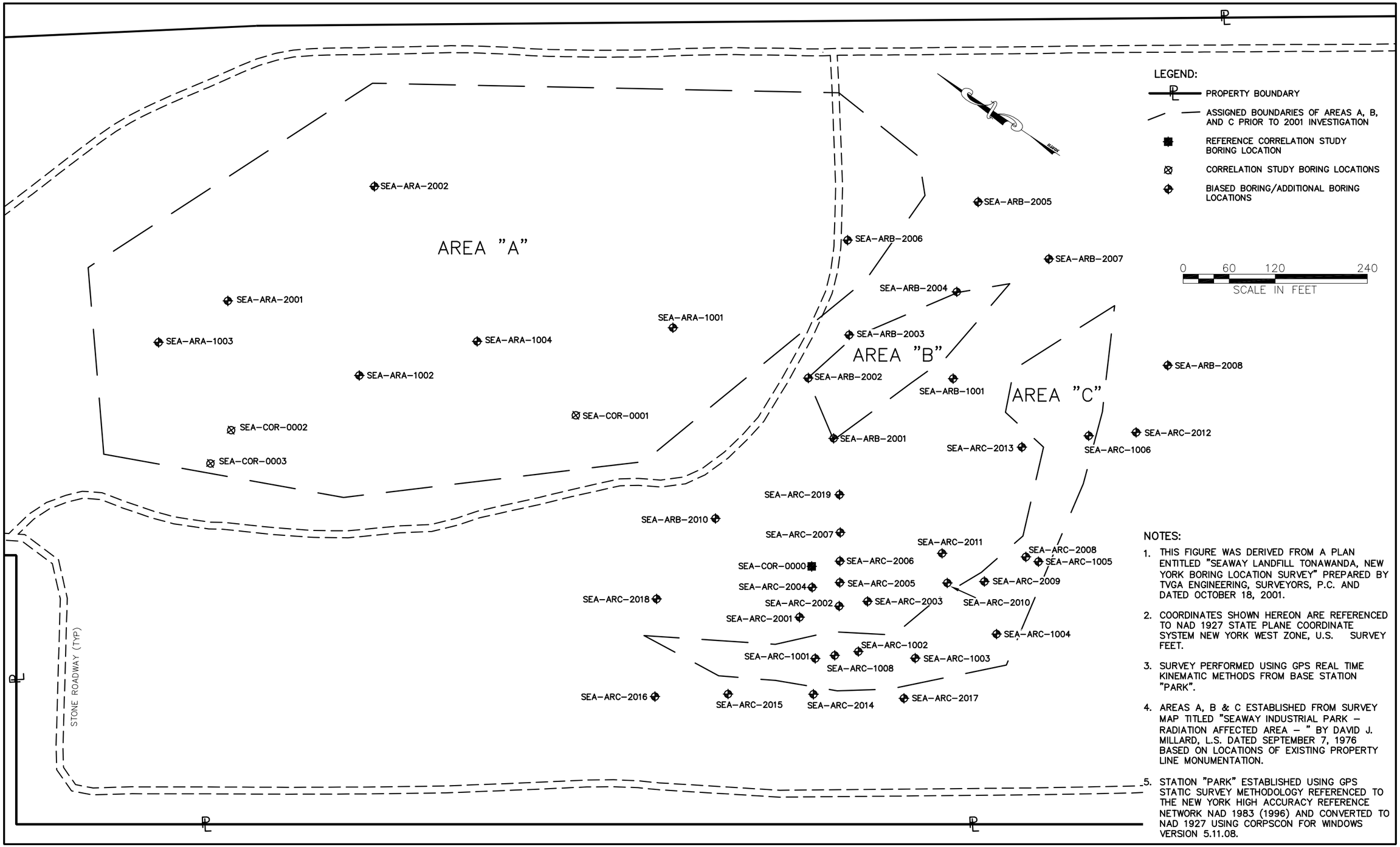
FIGURE 1-3
LOCATION DETAILS - SEAWAY SITE



NOTES:

1. AREAS A, B AND C ARE APPROXIMATE OUTLINES OF RADIOACTIVE CONTAMINATION FROM SURVEYS CONDUCTED PRIOR TO 1988.
2. EXISTING TOPOGRAPHIC CONTOURS ARE NOT SHOWN ON AREAS A, B AND C. BASED ON A COMPARISON OF TOPOGRAPHIC MAPS OF THE LANDFILL IN 1976 AND 1986, IT WAS ESTIMATED THAT AREAS B AND C HAD BEEN COVERED WITH UP TO 40 FEET OF FILL MATERIAL AND AREA A HAD BEEN COVERED WITH A SIMILAR, BUT THINNER LAYER OF MATERIAL 0 TO 10 FEET THICK (BNI 1993.)
3. WELLS W-8 AND W-2, LOCATED NEAR RIVER ROAD, ARE NOT SHOWN ON THIS FIGURE.

FIGURE 1-4
NIAGARA LANDFILL CLOSURE CONDITIONS

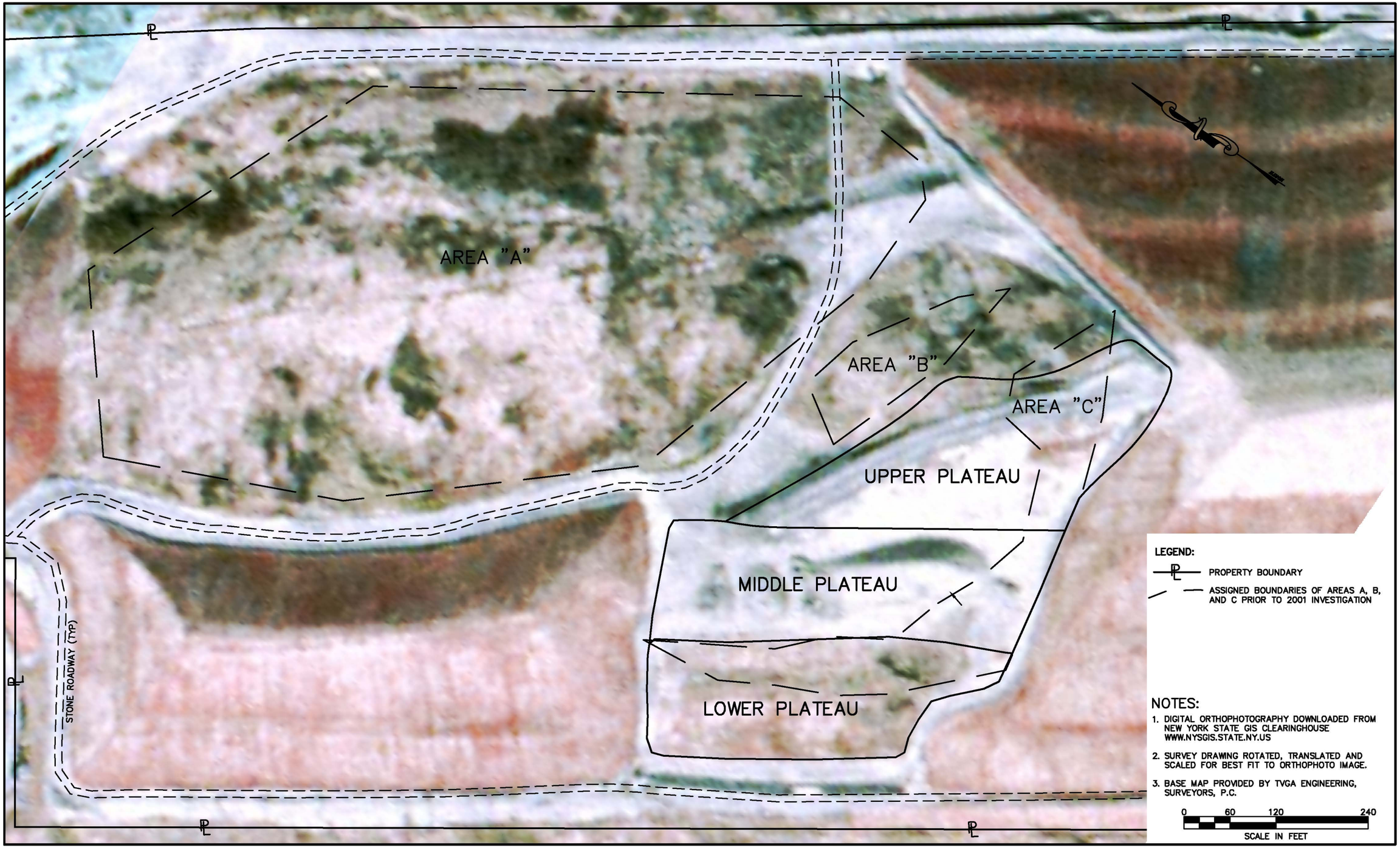


NOTES:

1. THIS FIGURE WAS DERIVED FROM A PLAN ENTITLED "SEAWAY LANDFILL TONAWANDA, NEW YORK BORING LOCATION SURVEY" PREPARED BY TVGA ENGINEERING, SURVEYORS, P.C. AND DATED OCTOBER 18, 2001.
2. COORDINATES SHOWN HEREON ARE REFERENCED TO NAD 1927 STATE PLANE COORDINATE SYSTEM NEW YORK WEST ZONE, U.S. SURVEY FEET.
3. SURVEY PERFORMED USING GPS REAL TIME KINEMATIC METHODS FROM BASE STATION "PARK".
4. AREAS A, B & C ESTABLISHED FROM SURVEY MAP TITLED "SEAWAY INDUSTRIAL PARK – RADIATION AFFECTED AREA – " BY DAVID J. MILLARD, L.S. DATED SEPTEMBER 7, 1976 BASED ON LOCATIONS OF EXISTING PROPERTY LINE MONUMENTATION.
5. STATION "PARK" ESTABLISHED USING GPS STATIC SURVEY METHODOLOGY REFERENCED TO THE NEW YORK HIGH ACCURACY REFERENCE NETWORK NAD 1983 (1996) AND CONVERTED TO NAD 1927 USING CORPSCON FOR WINDOWS VERSION 5.11.08.

SEAFP–AREAS.DWG

FIGURE 2–1
BOREHOLE LOCATIONS FOR SUMMER 2001 INVESTIGATION
SEAWAY LANDFILL TONAWANDA, NEW YORK



SEAFP-PLATEAUS.DWG

FIGURE 2-2
PLATEAUS IN AREA C
SEAWAY LANDFILL TONAWANDA, NEW YORK

Figure 3-1. Radium-226 BEGe Results vs. GM Measurements

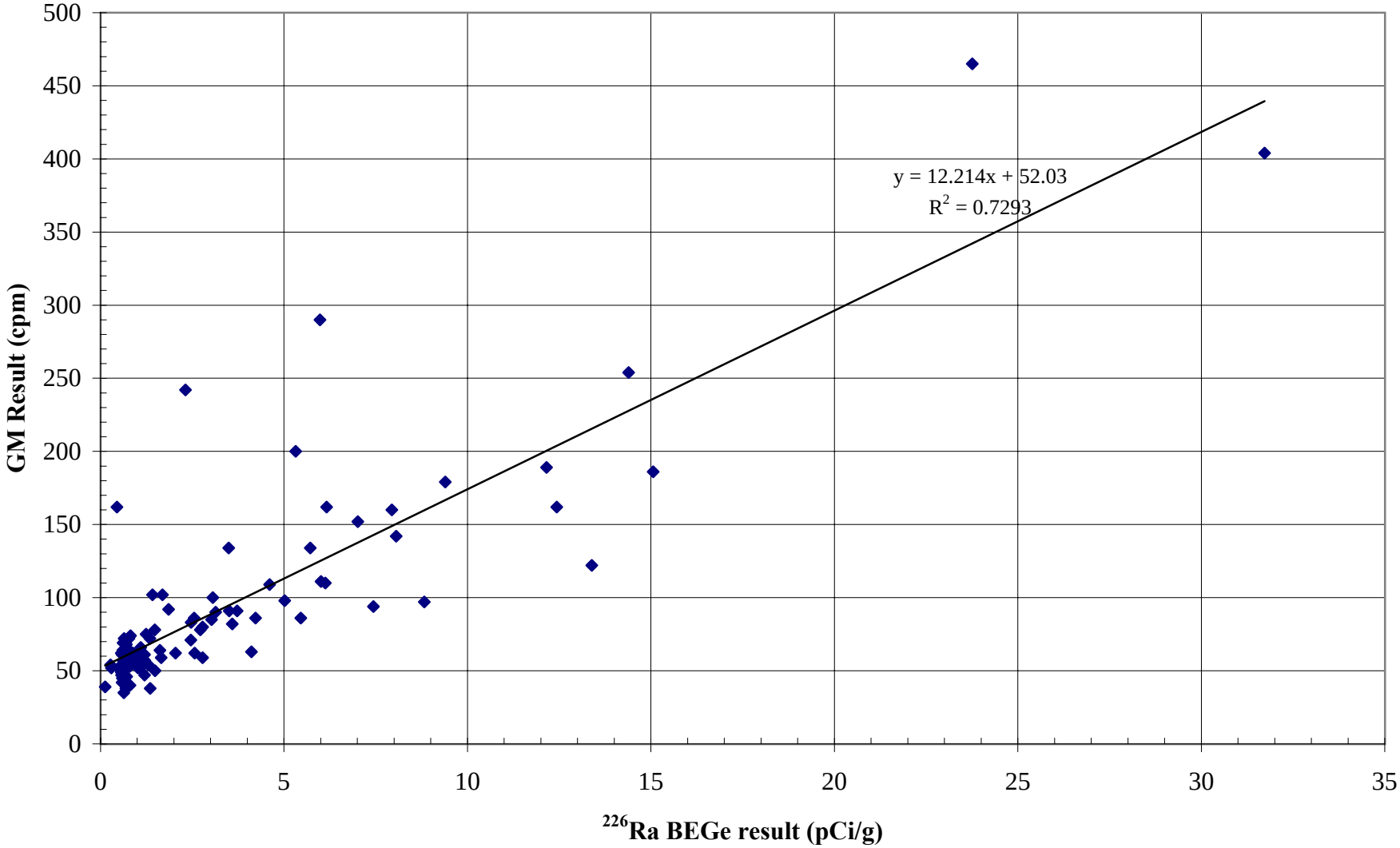


Figure 3-2. Down-hole Gamma vs. BEGe Results (^{226}Ra)

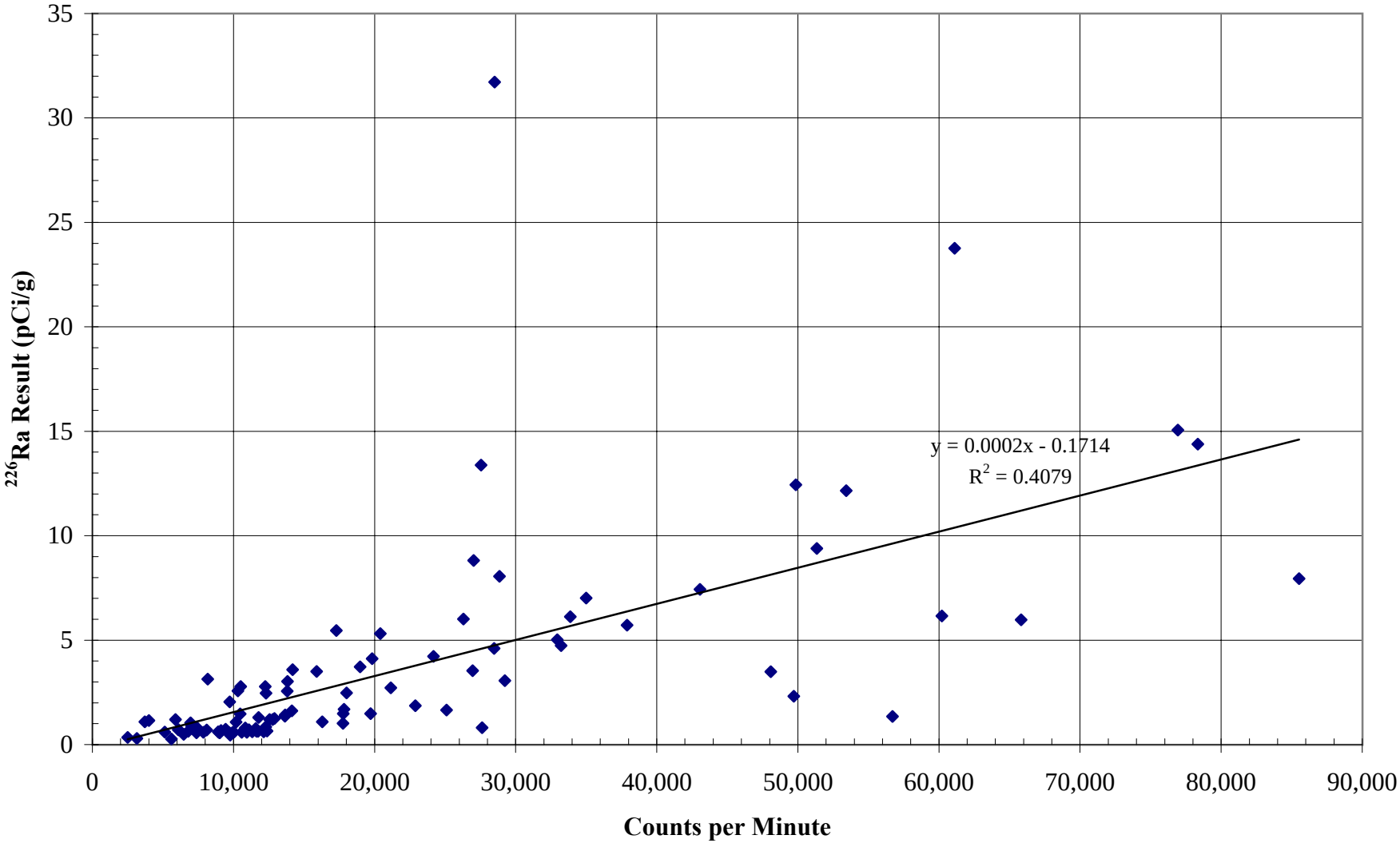


Figure 3-3. Down-hole Gamma vs. BEGe Results (^{230}Th)

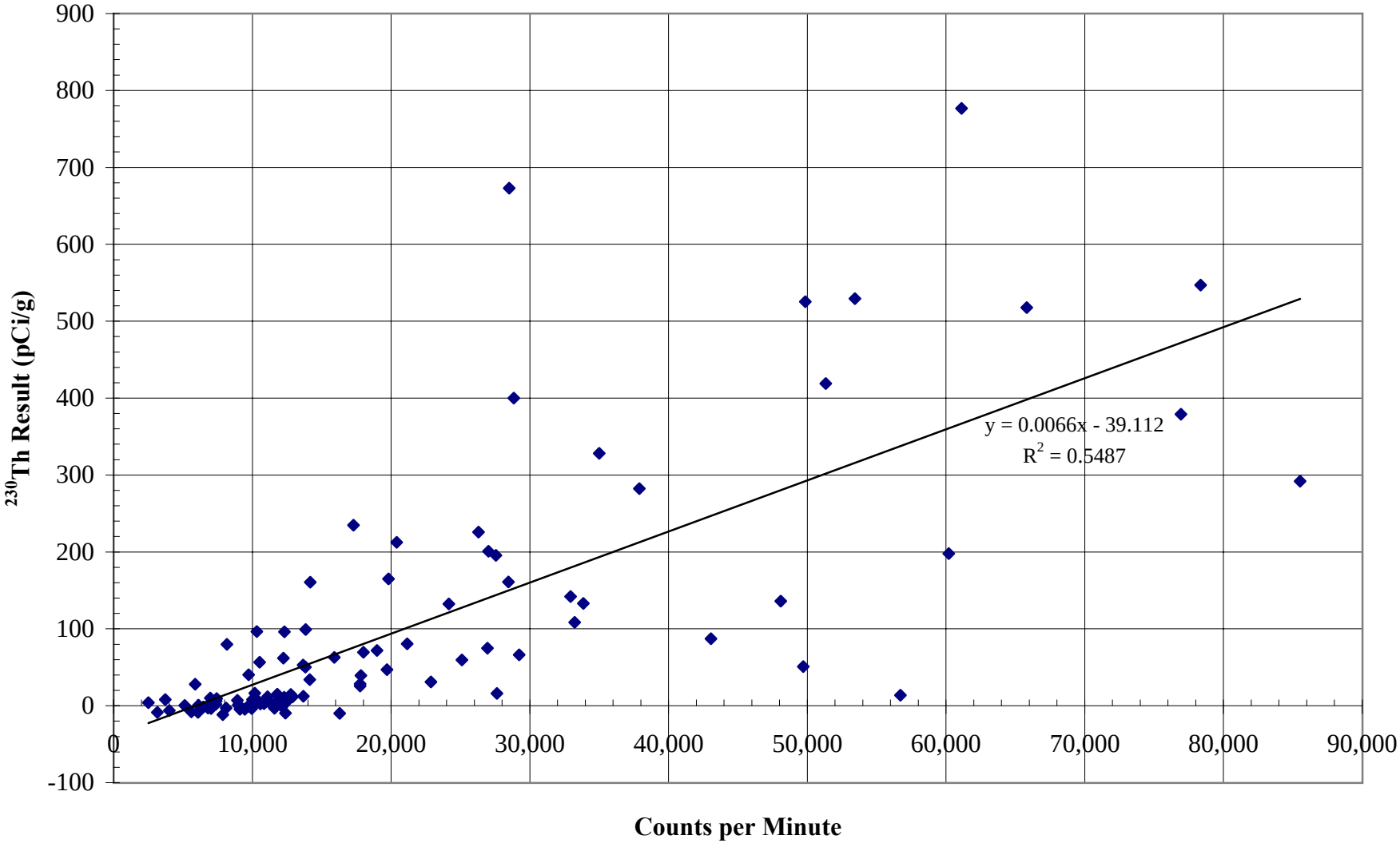


Figure 3-4. Down-hole Gamma vs. BEGe Results (^{238}U)

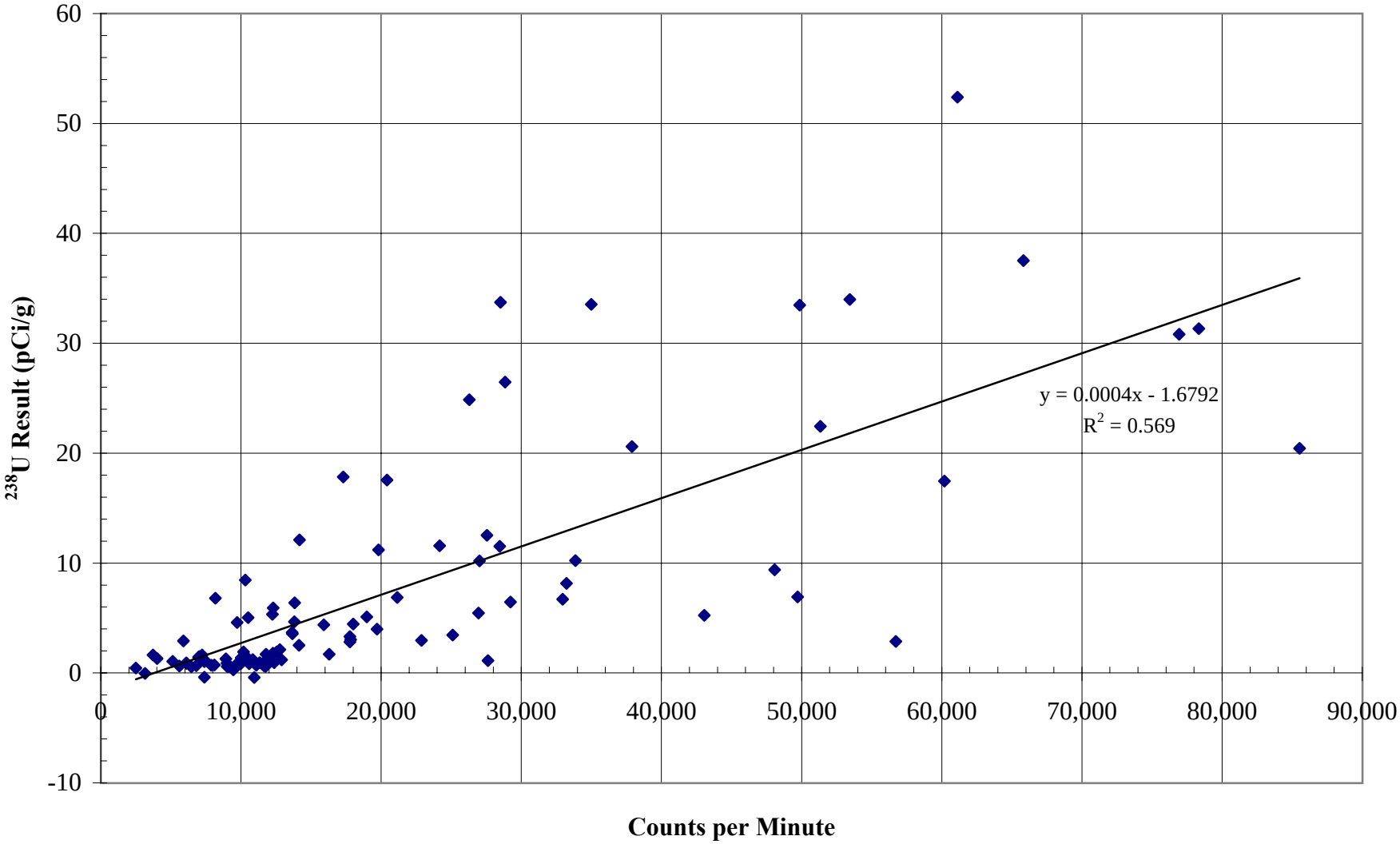


Figure 3-5. Cumulative Frequency Plot of Down-hole Gamma Data

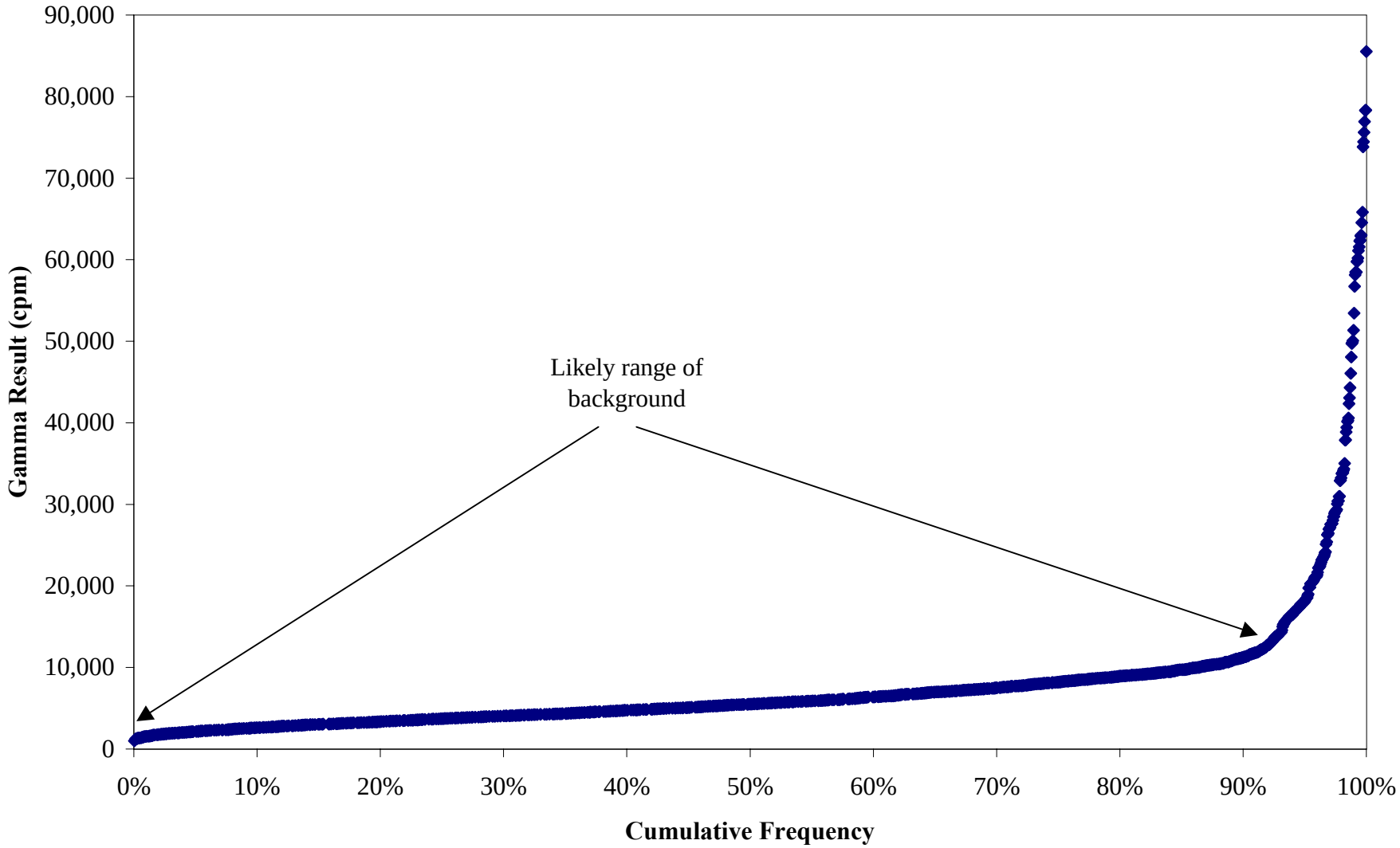


Figure 3-6. Cumulative Frequency Plot of Down-hole Gamma Data Subpopulation

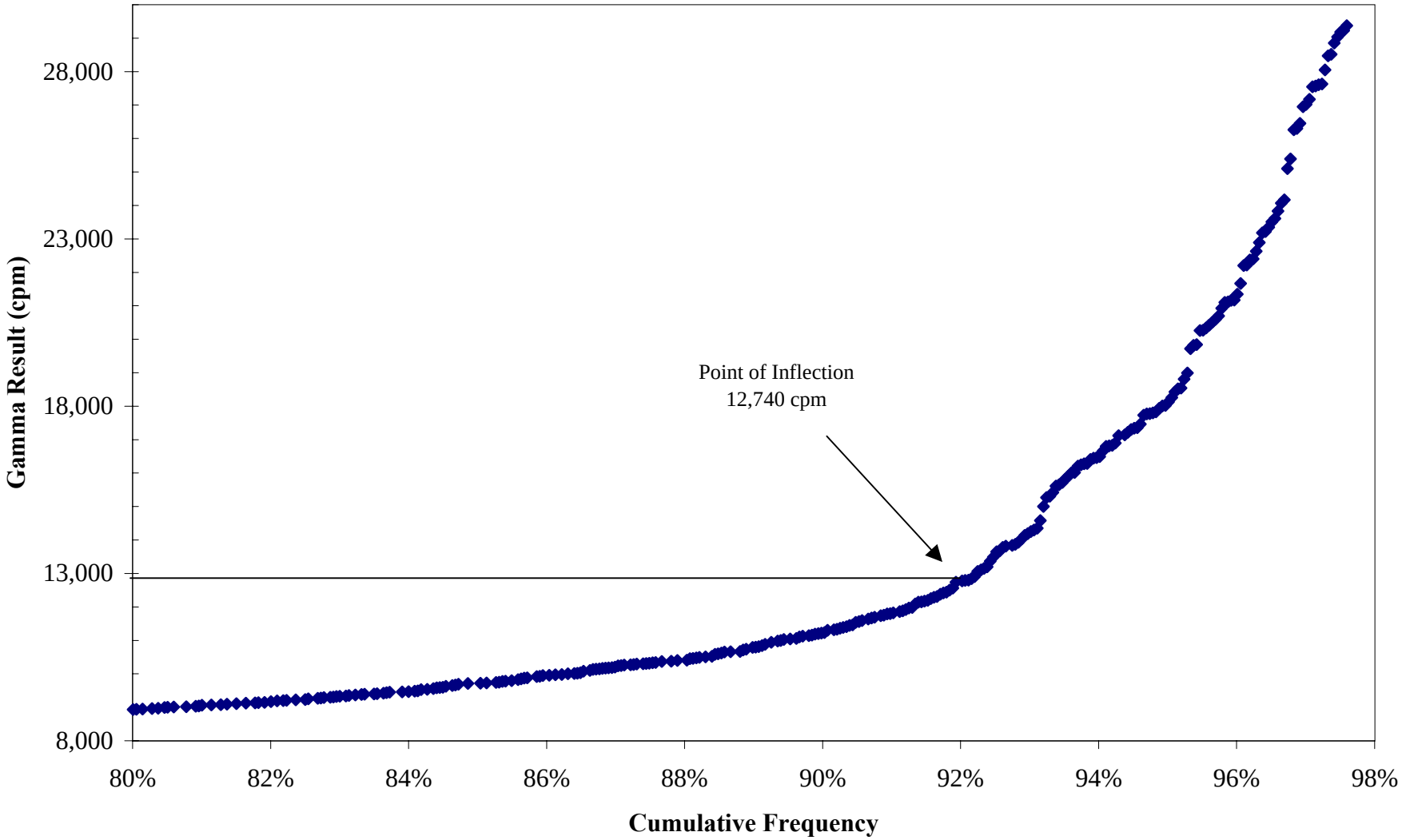


Figure 3-7. Off-Site Verses On-site Analytical Results (^{226}Ra)

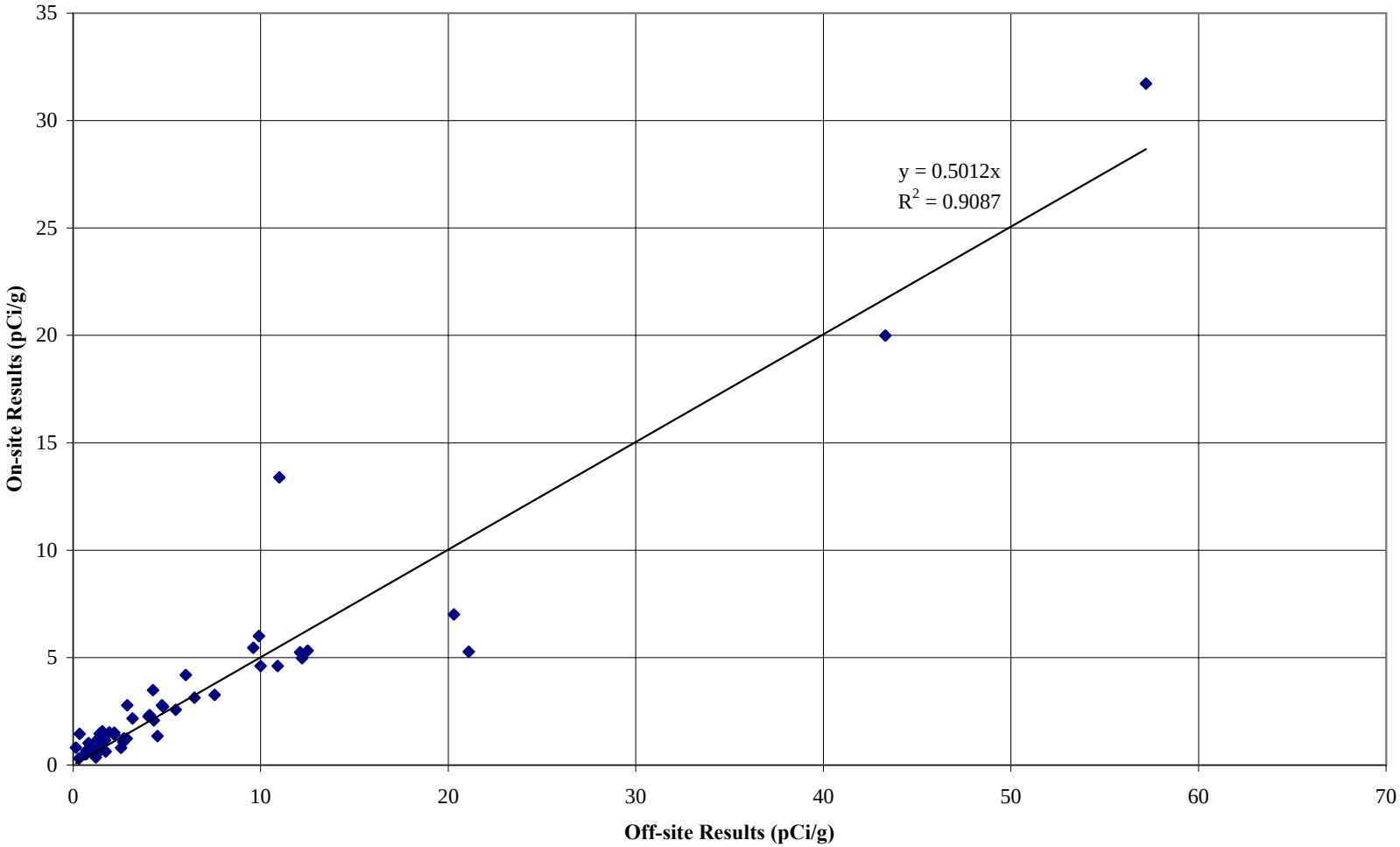


Figure 3-8. Off-Site Verses On-site Analytical Results -Full Scale (^{230}Th)

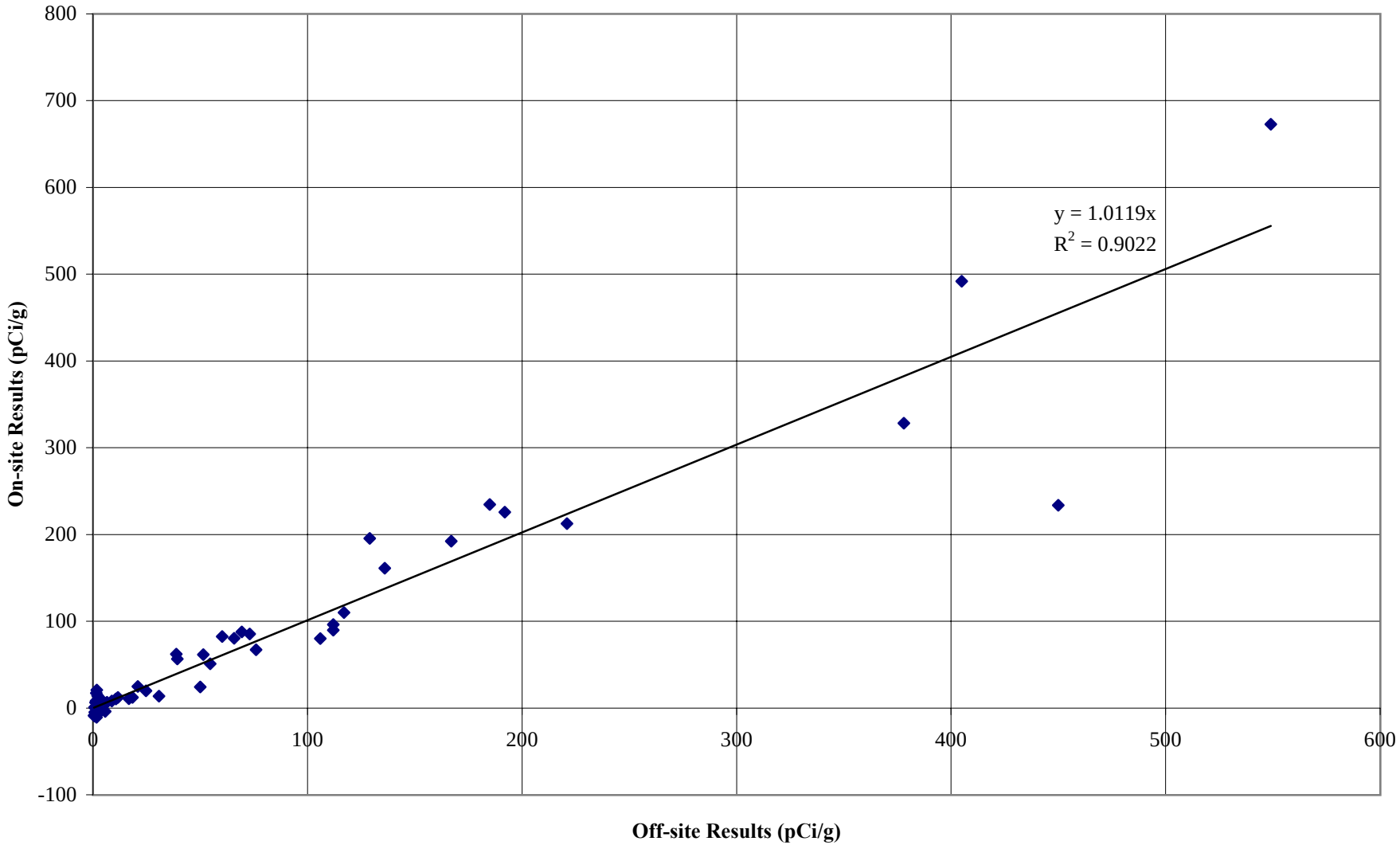


Figure 3-9. Off-Site Verses On-site Analytical Results - Partial Scale (^{230}Th)

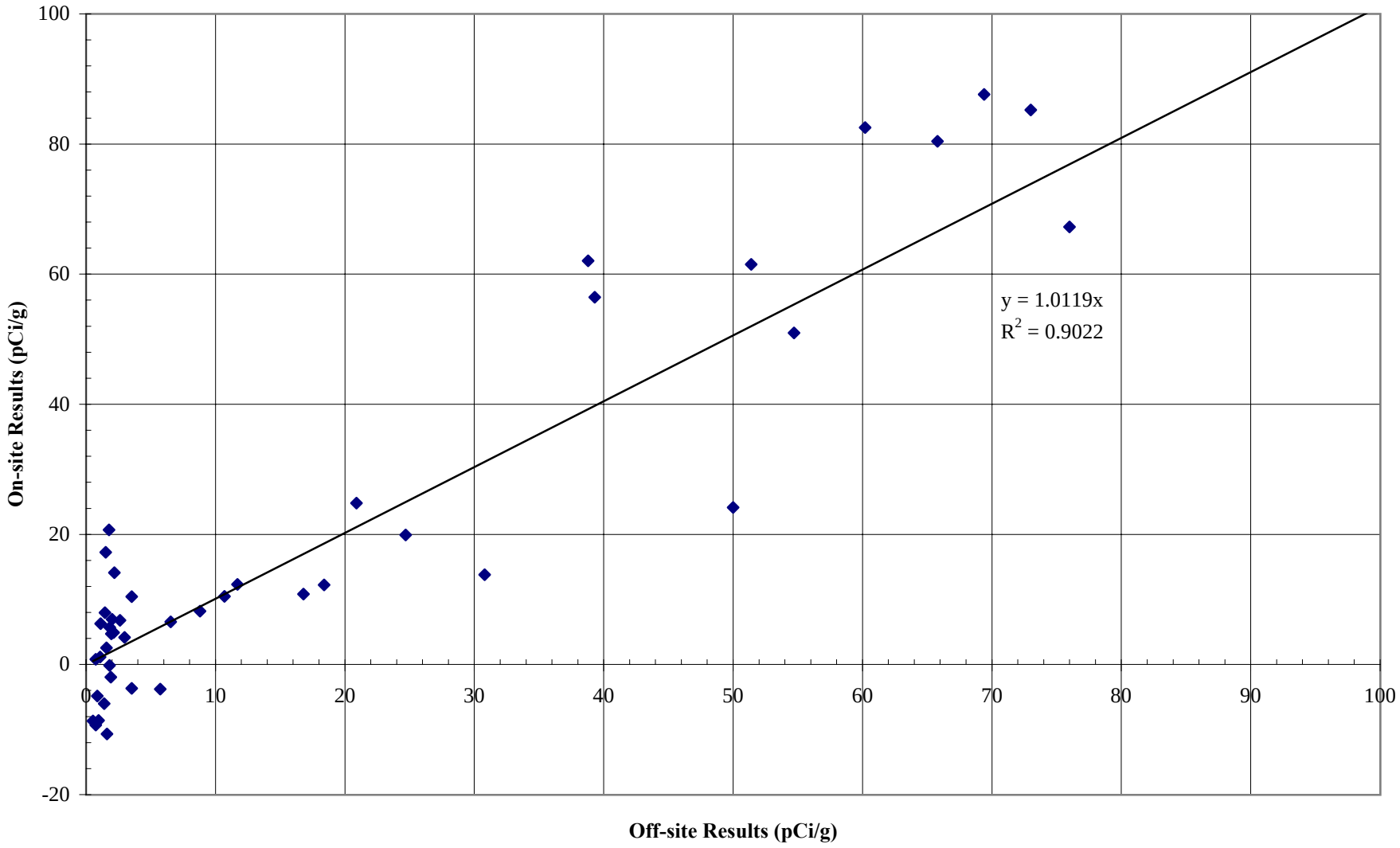
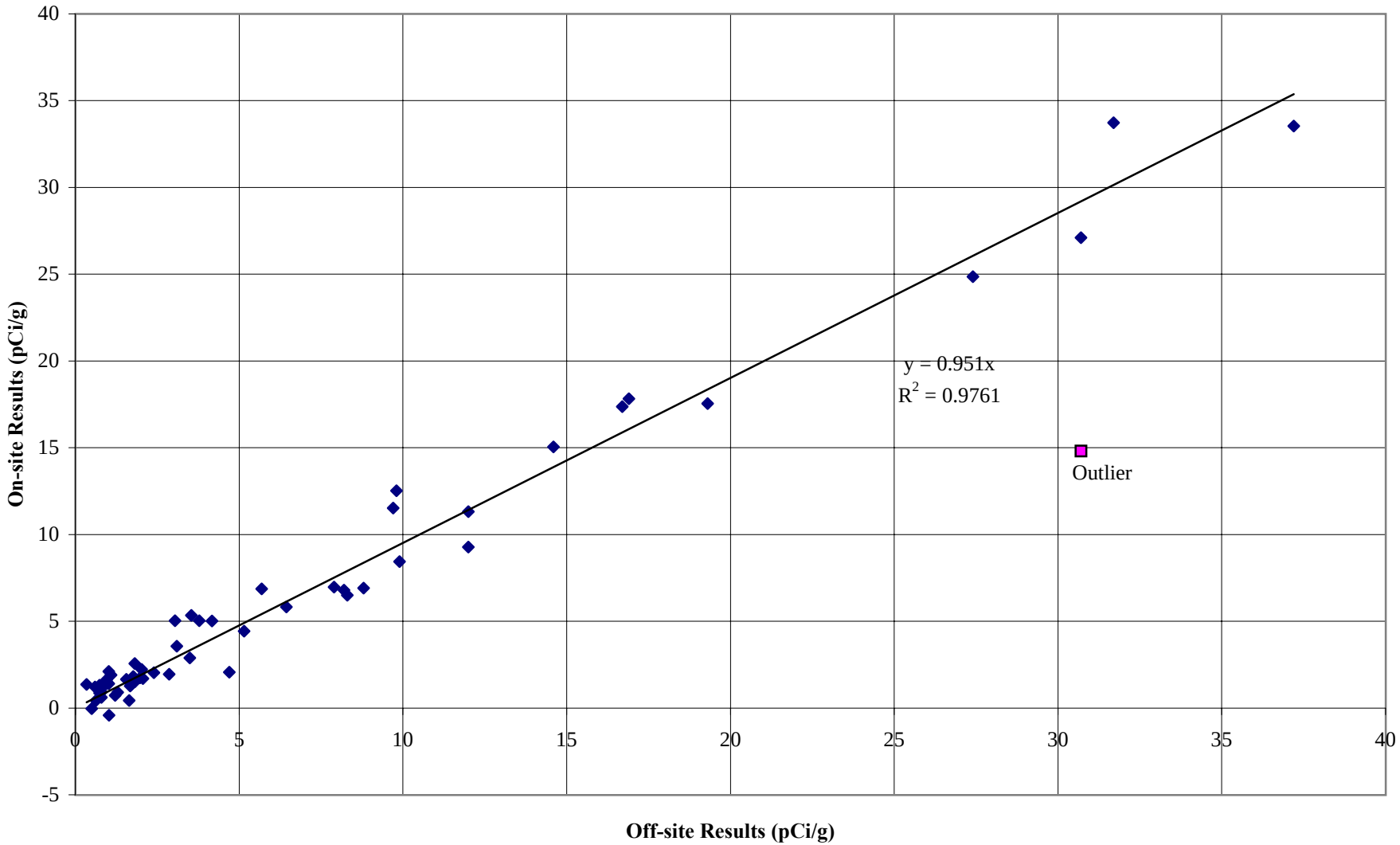
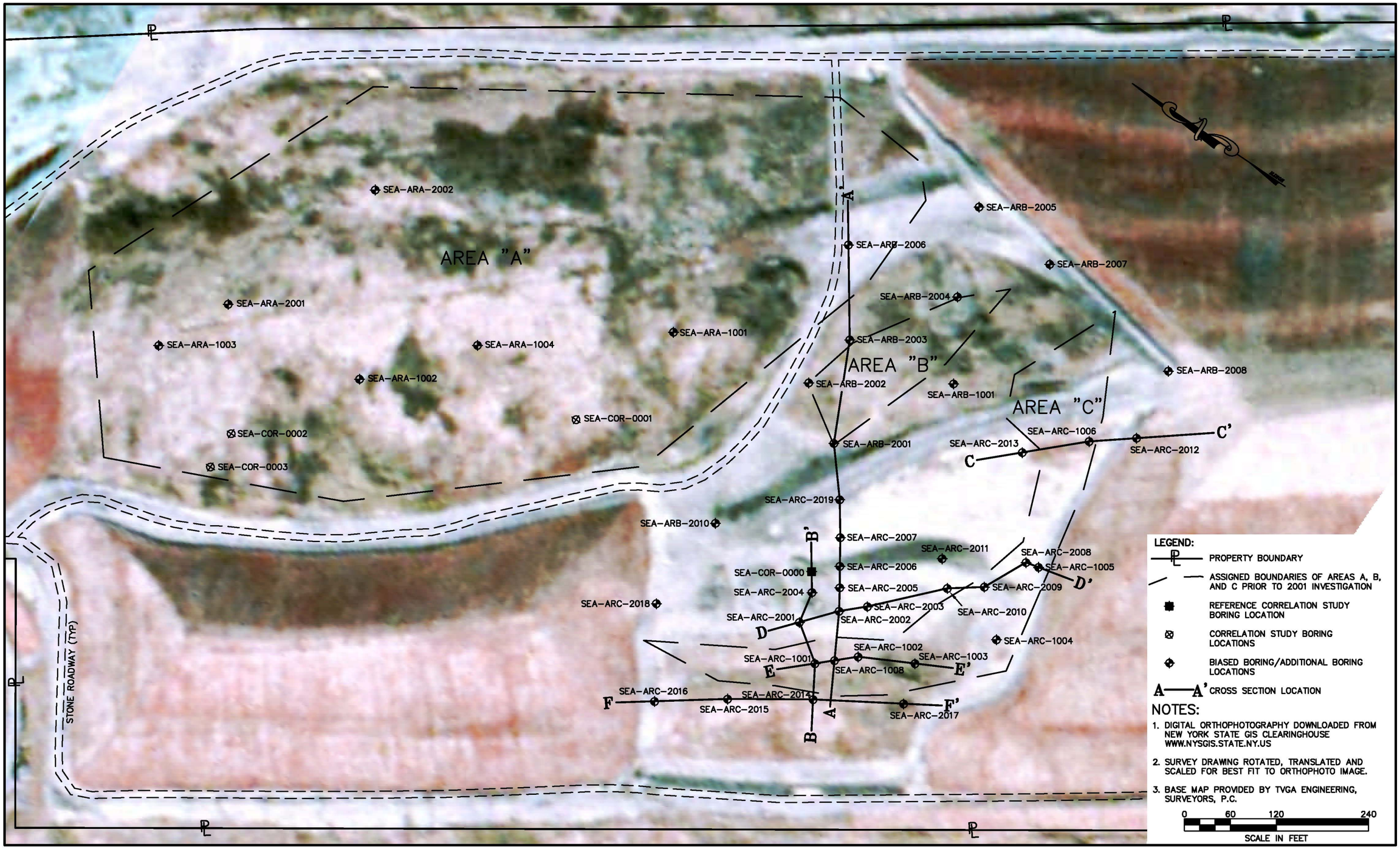


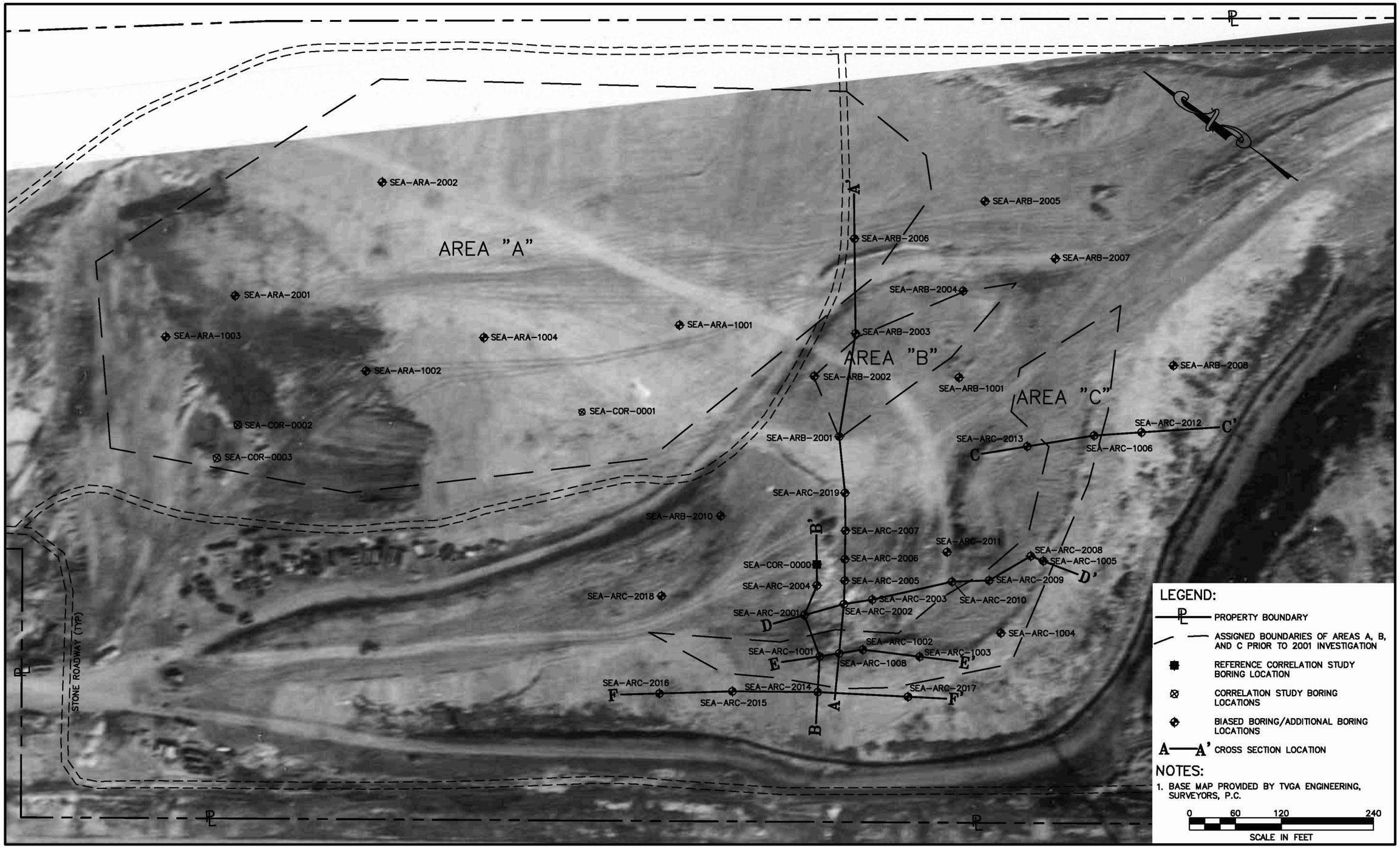
Figure 3-10. Off-Site Verses On-site Analytical Results (^{238}U)





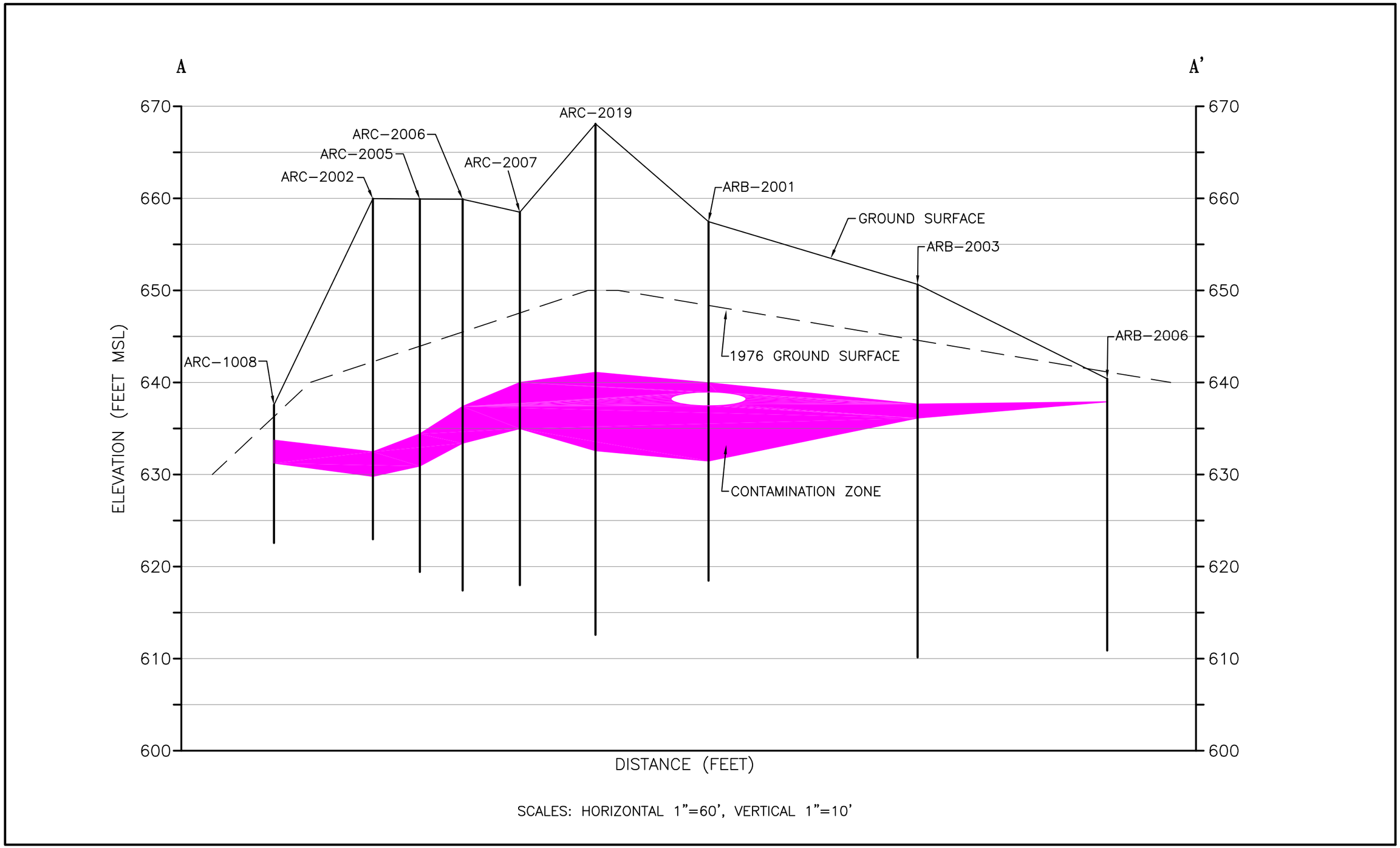
SEAFP-CURRENT.DWG

FIGURE 4-1
BORING LOCATION SURVEY WITH CURRENT SITE CONDITIONS AND CROSS SECTION LOCATIONS
SEAWAY LANDFILL TONAWANDA, NEW YORK



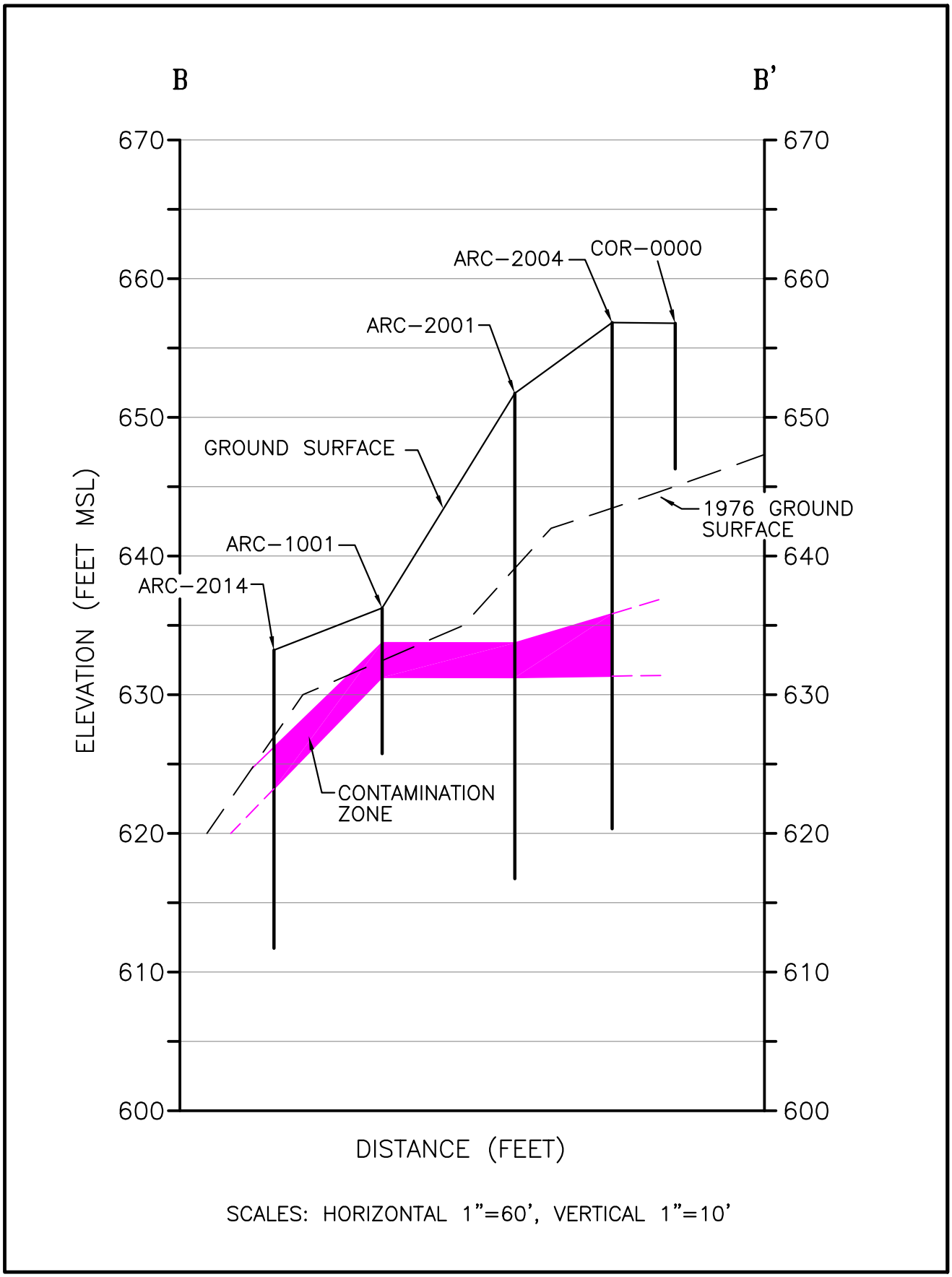
SEAFP-SECTION-LINES.DWG

FIGURE 4-2
BORING LOCATION SURVEY WITH 1974 PHOTO AND CROSS SECTION LOCATIONS
SEAWAY LANDFILL TONAWANDA, NEW YORK



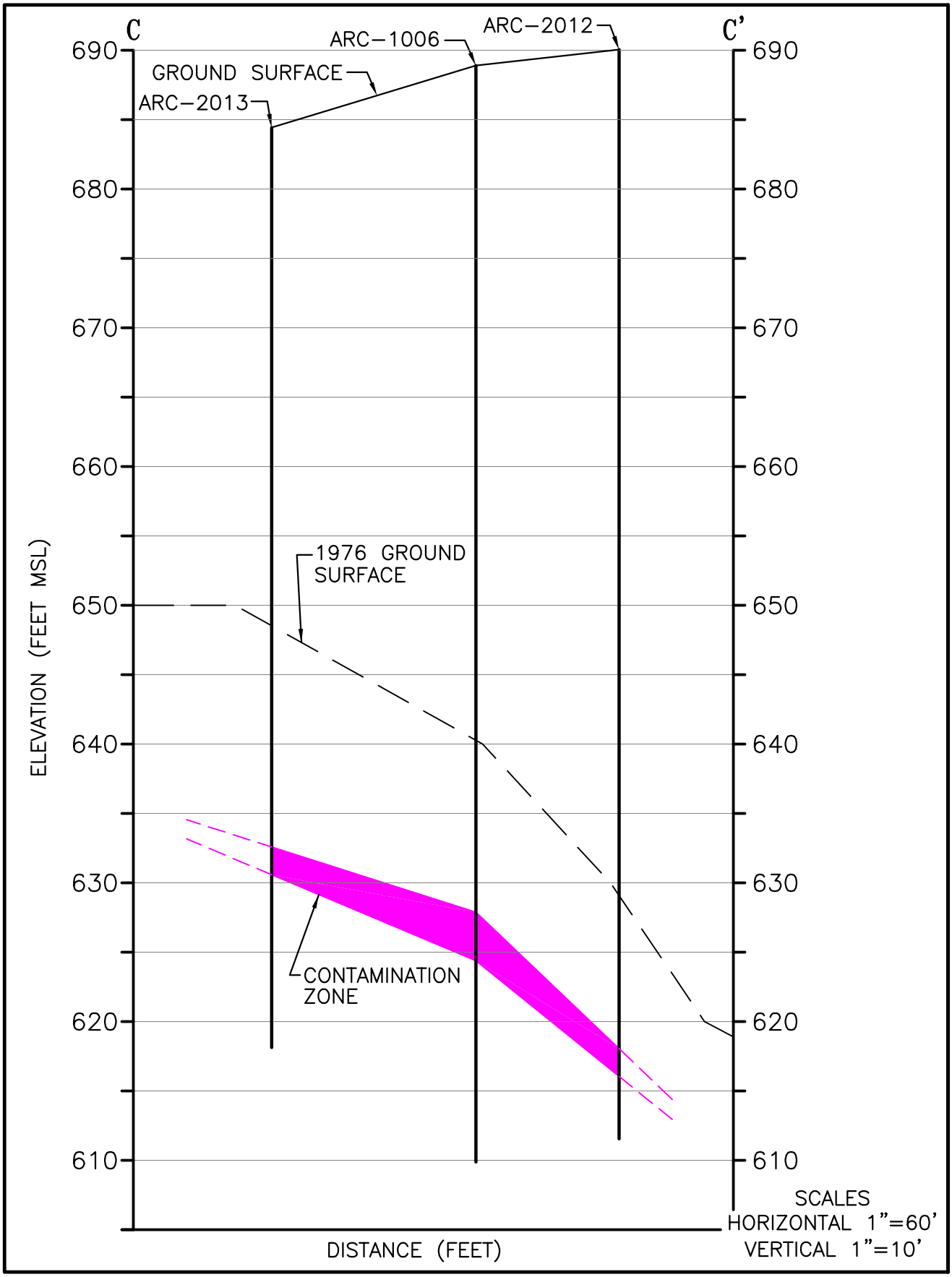
SEAFP-A-A.DWG

FIGURE 4-3
CROSS SECTION A-A'
SEAWAY LANDFILL TONAWANDA, NEW YORK



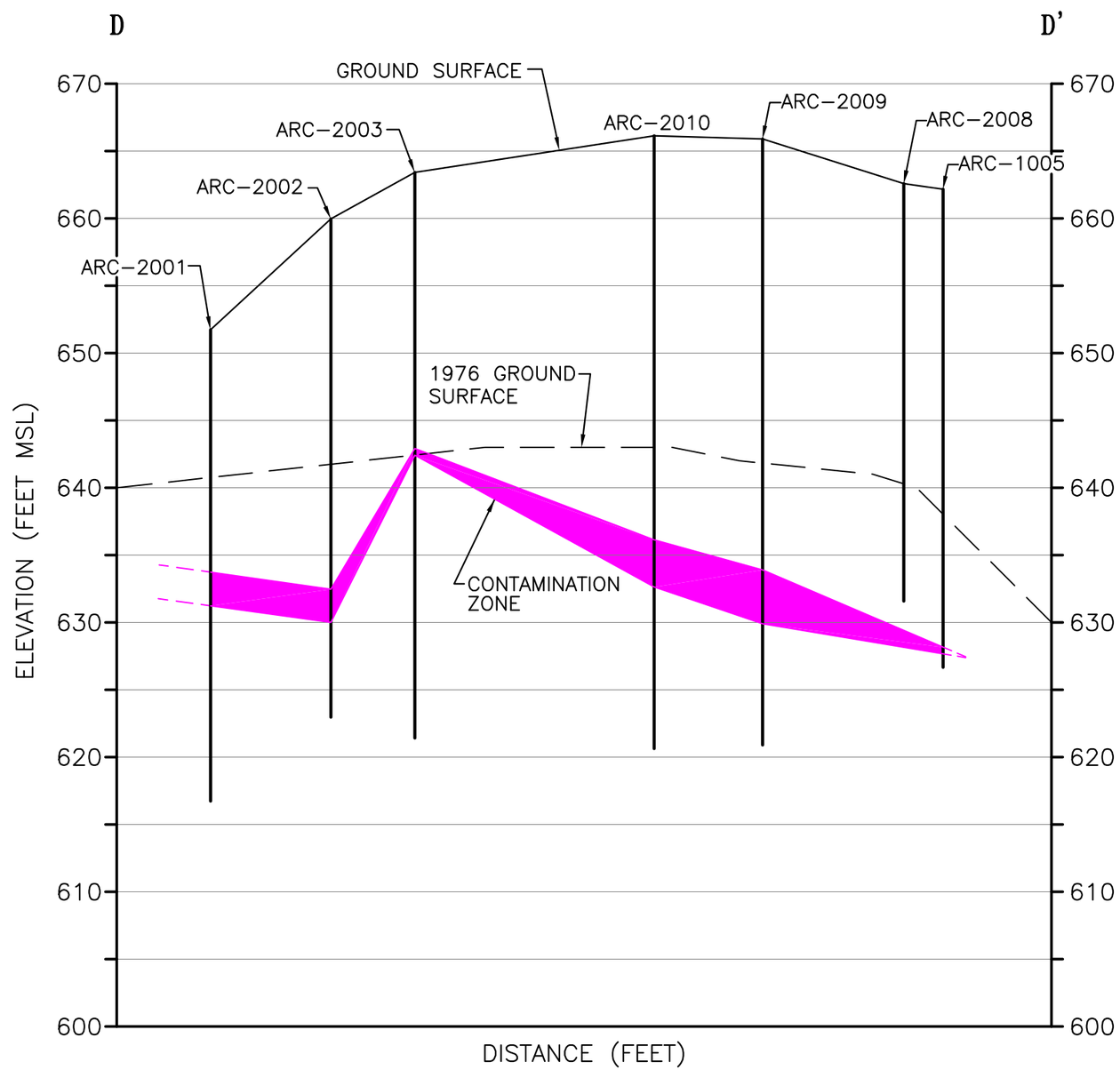
SEAFP-B-B.DWG

FIGURE 4-4
CROSS SECTION B-B'
SEAWAY LANDFILL TONAWANDA, NEW YORK



SEAFP-C-C.DWG

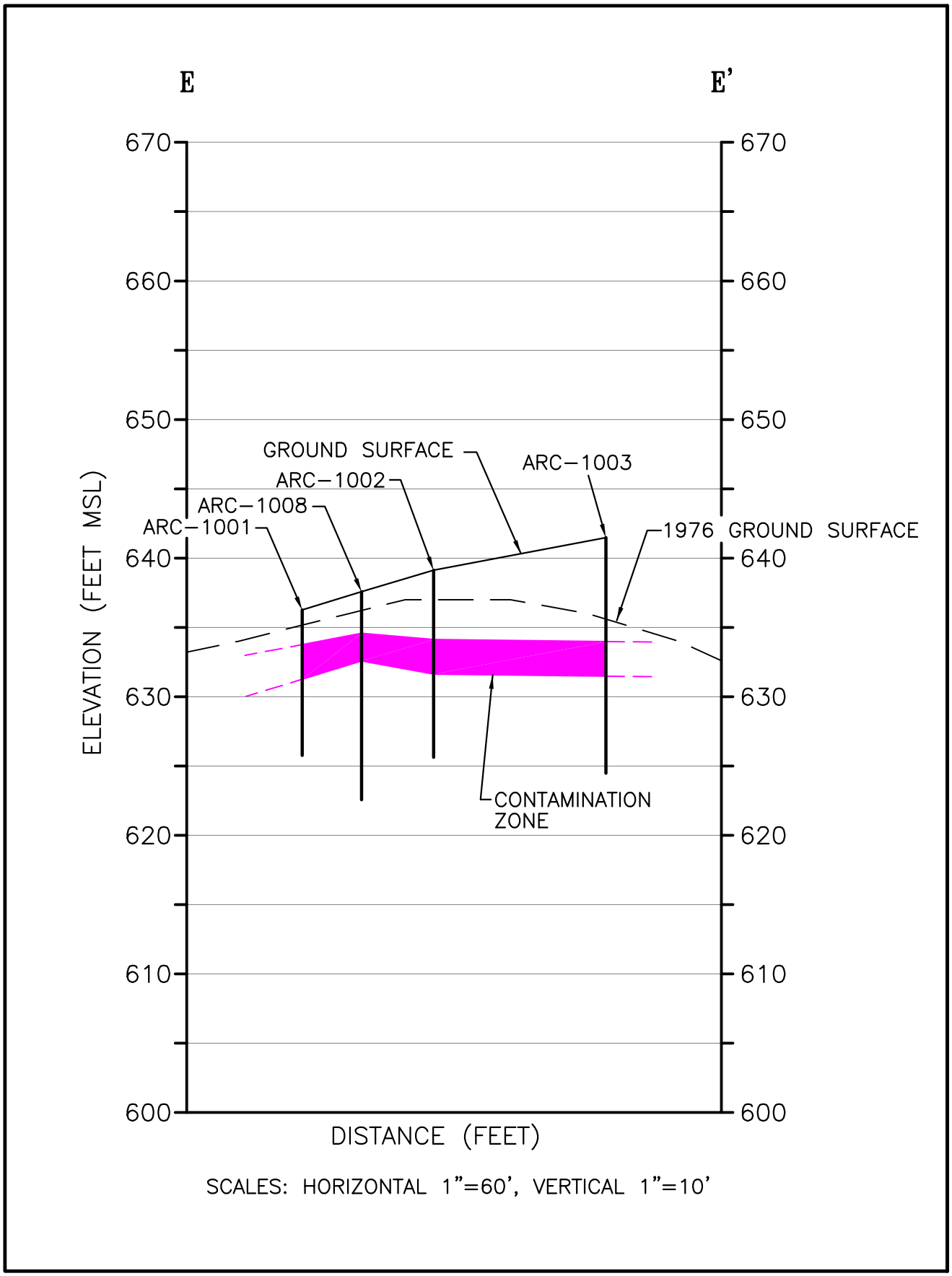
FIGURE 4-5
CROSS SECTION C-C'
SEAWAY LANDFILL TONAWANDA, NEW YORK



SCALES: HORIZONTAL 1"=60', VERTICAL 1"=10'

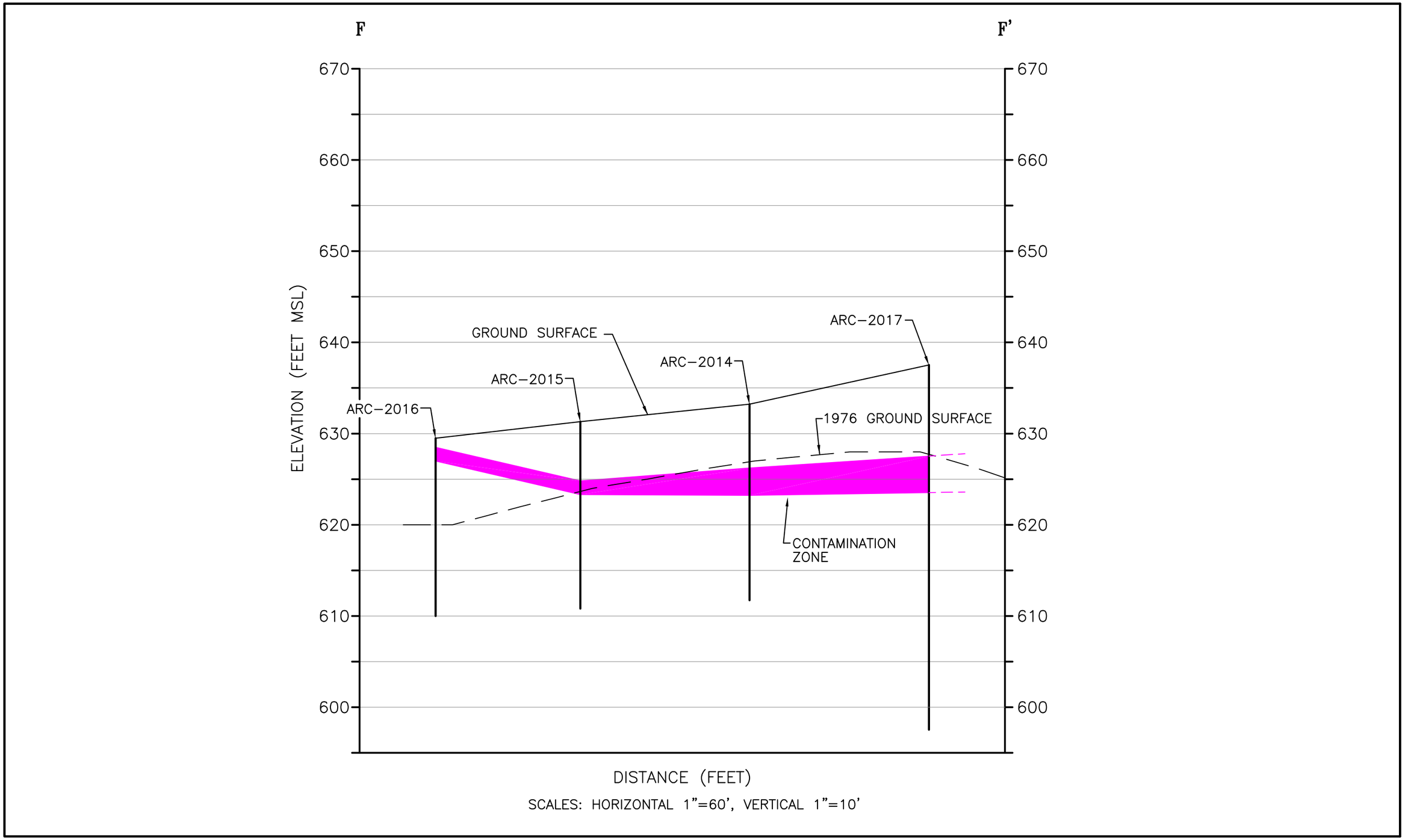
SEAFP-D-D.DWG

FIGURE 4-6
CROSS SECTION D-D'
SEAWAY LANDFILL TONAWANDA, NEW YORK



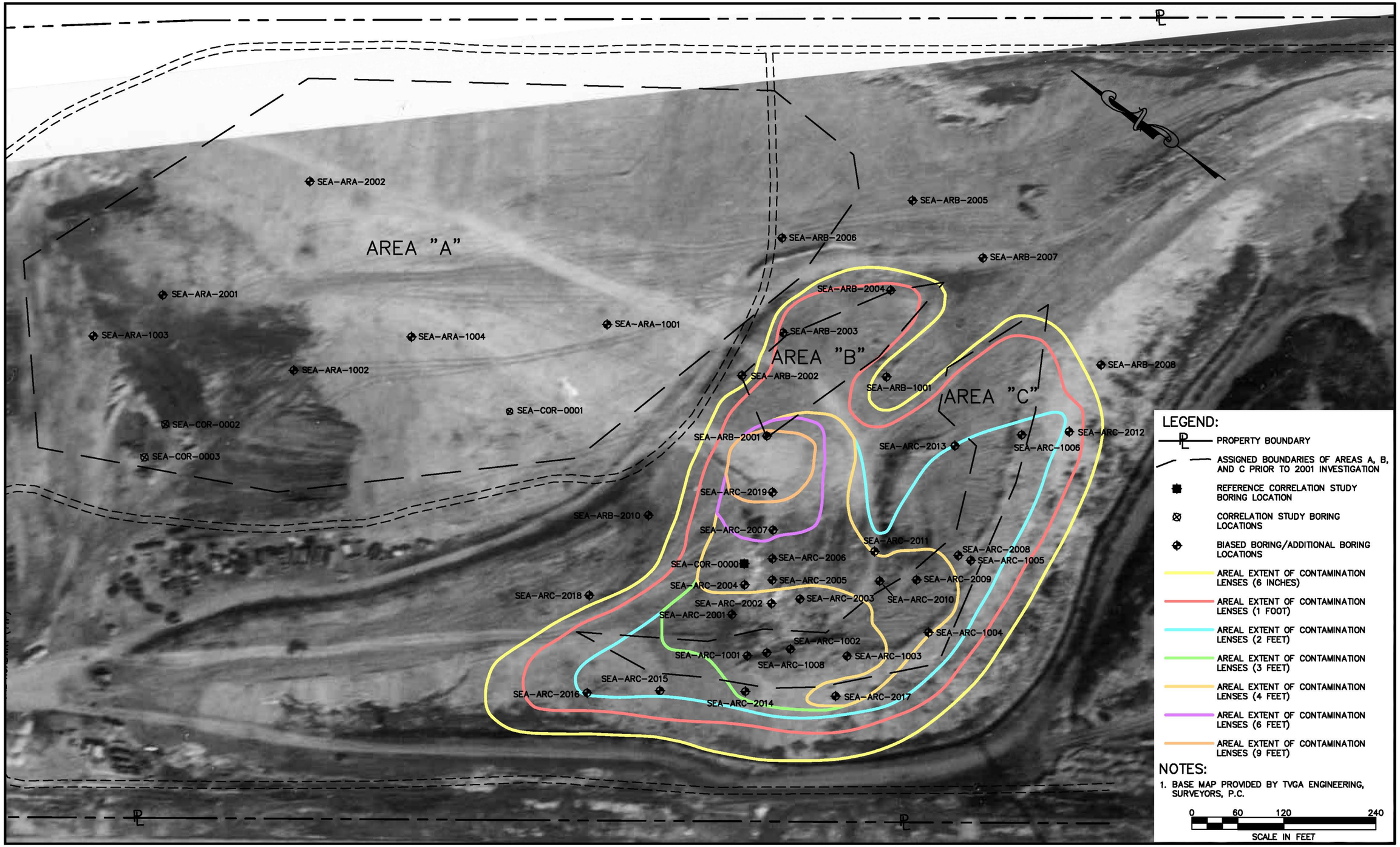
SEAFP-E-E.DWG

FIGURE 4-7
CROSS SECTION E-E'
SEAWAY LANDFILL TONAWANDA, NEW YORK



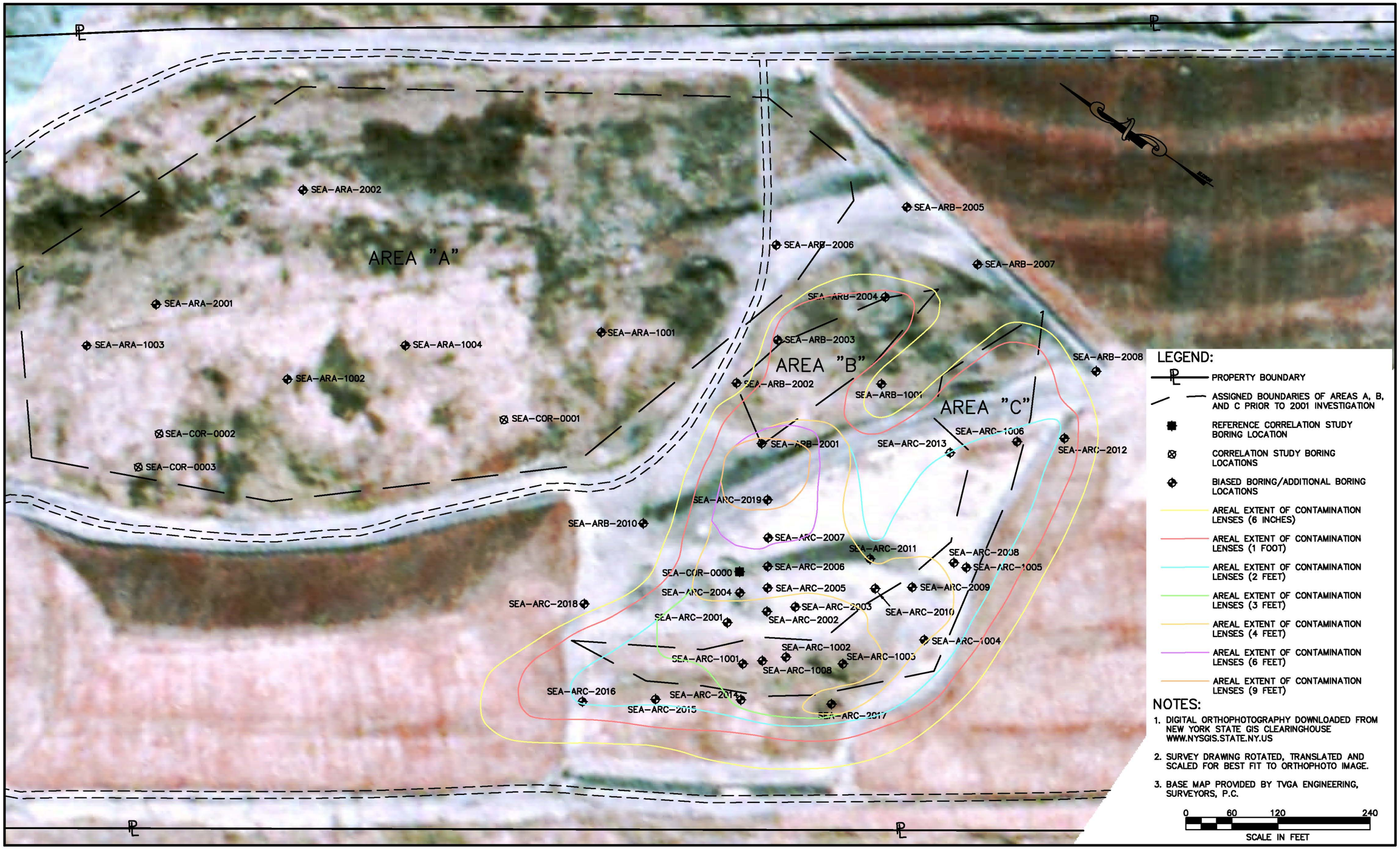
SEAFP-F-F.DWG

FIGURE 4-8
CROSS SECTION F-F'
SEAWAY LANDFILL TONAWANDA, NEW YORK



SEAFP-AERIAL-CONTAM.DWG

FIGURE 4-9
AREAL EXTENT OF CONTAMINATION LENSES
SEAWAY LANDFILL TONAWANDA, NEW YORK



SEAFP-CURR-CONTAM.DWG

FIGURE 4-10
AREAL EXTENT OF CONTAMINATION LENSES WITH CURRENT SITE CONDITIONS
SEAWAY LANDFILL TONAWANDA, NEW YORK

TABLES

Table 2-1. Summary of Borehole Characteristics

Borehole Summary				Down-hole Summary
Borehole No.	**Borehole Depth (feet bgs)**	**Surface Elevation (feet msl)**	**Bottom Elevation (feet msl)**	**Location/Description**
Area A and Correlation				
COR0000	10.0	656.79	646.79	Between Areas A, B and C; reference boring
COR0001	19.0	639.78	620.78	Southern Area A; target = MED residues
COR0002	15.5	636.41	620.91	Northwestern Area A; target = fly-ash-like material
COR0003	24.0	635.75	611.75	Northwestern Area A; target = fly-ash-like material
ARA1001	20.0	642.26	622.26	Southern Area A; target = MED residues
ARA1002	23.0	639.42	616.42	Central Area A; target = MED residues
ARA1003	19.0	634.20	615.20	Northern Area A; target = MED residues
ARA1004	19.0	642.70	623.70	Central Areas A; target = MED residues
ARA2001	10.0	636.24	626.24	Northern Area A; target = MED residues near surface
ARA2002	18.5	624.35	605.85	Northeastern Area A; target = MED residues near surface
Area B				
ARB1001	59.0	681.91	622.91	South of Area B on upper plateau; target = MED residues
ARB2001	38.5	657.46	618.96	Western Area B boundary; boundary delineation
ARB2002	35.0	645.27	610.27	Northern Area B boundary; boundary delineation
ARB2003	40.0	650.64	610.64	Northern Area B boundary; boundary delineation
ARB2004	39.5	655.61	616.11	Eastern Area B boundary; boundary delineation
ARB2005	30.5	644.13	613.63	East of Area B near riprap; boundary delineation
ARB2006	29.0	640.39	611.39	North of Area B in southeastern Area A; boundary delineation
ARB2007	44.5	659.84	615.34	Southeast of Area B near riprap; boundary delineation
ARB2008	85.5	697.36	611.86	Southeast of Area B east of Area C; boundary delineation
ARB2009	N/A	N/A	N/A	Borehole number no used
ARB2010	25.0	645.43	620.43	West of Area B near main access road; boundary delineation
Area C				
ARC1001	10.0	636.26	626.26	Lower plateau - western Area C; target = piles of MED residues
ARC1002	13.0	639.13	626.13	Lower plateau - western Area C; target = piles of MED residues
ARC1003	16.5	641.48	624.98	Lower plateau - western Area C; target = piles of MED residues
ARC1004	N/A	N/A	N/A	Middle plateau; abandoned after drill rig malfunction
ARC1005	35.0	662.17	627.17	Middle plateau - southern Area C; target = MED residues
ARC1006	78.0	688.89	610.89	Upper plateau - eastern Area C; target = MED residues
ARC1007	N/A	N/A	N/A	Borehole number no used
ARC1008	14.5	637.57	623.07	Lower plateau - western Area C; target = piles of MED residues
ARC2001	34.5	651.73	617.23	Middle plateau - between Areas C and B; boundary delineation
ARC2002	36.5	659.96	623.46	Middle plateau - between Areas C and B; boundary delineation
ARC2003	41.5	663.42	621.92	Middle plateau - between Areas C and B; boundary delineation
ARC2004	36.0	656.84	620.84	Middle plateau - between Areas C and B; boundary delineation
ARC2005	40.0	659.91	619.91	Middle plateau - between Areas C and B; boundary delineation
ARC2006	42.0	659.90	617.90	Middle plateau - between Areas C and B; boundary delineation
ARC2007	40.0	658.49	618.49	Middle plateau - between Areas C and B; boundary delineation
ARC2008	30.5	662.58	632.08	Middle plateau - southern Area C; boundary delineation
ARC2009	44.5	665.90	621.40	Middle plateau - southern Area C; boundary delineation
ARC2010	45.0	666.13	621.13	Middle plateau - near southern Area C; boundary delineation
ARC2011	45.5	665.77	620.27	Middle plateau - near southern Area C; boundary delineation
ARC2012	78.0	690.05	612.05	Upper plateau - southeast of Area C; boundary delineation
ARC2013	68.5	684.42	615.92	Upper plateau - near southeastern Area C; boundary delineation
ARC2014	21.0	633.22	612.22	Lower plateau - west of Area C; boundary delineation
ARC2015	20.0	631.31	611.31	Lower plateau - west of Area C; boundary delineation
ARC2016	19.0	629.49	610.49	Lower plateau - west of Area C; boundary delineation
ARC2017	39.5	637.53	598.03	Lower plateau - west of Area C; boundary delineation
ARC2018	31.0	644.16	613.16	Middle plateau - between Areas C and A; boundary delineation
ARC2019	55.0	668.09	613.09	Upper plateau - between Areas C and B; boundary delineation

feet msl = feet relative to mean sea level.
feet bgs = feet below ground surface.
N/A = not applicable

Table 3-1. Summary of Borehole Results

Borehole Summary				Down-hole Summary			
Borehole No.	Borehole Depth (feet bgs)	Surface Elevation (feet msl)	Bottom Elevation (feet msl)	No. Intervals Sampled	Bottom Elev. of MED-related Lens (feet msl)	Approximate Lens Thickness (feet)	Maximum Result (cpm)[a]
Area A and Correlation							
COR0000	10.0	656.79	646.79	3	--[b]	--	10,669
COR0001	19.0	639.78	620.78	11	637.28 633.28 631.78	2.5 1.0 0.5	35,002 16,452 12,245
COR0002	15.5	636.41	620.91	4	--	--	11,134
COR0003	24.0	635.75	611.75	5	--	--	10,003
ARA1001	20.0	642.26	622.26	7	--	--	10,939
ARA1002	23.0	639.42	616.42	5	635.92 622.42	2.5 1.5	27,569 15,644
ARA1003	19.0	634.20	615.20	3	--	--	7,030
ARA1004	19.0	642.70	623.70	6	636.20 630.20	6.5 1.5	76,929 27,624
ARA2001	10.0	636.24	626.24	3	634.74	1.5	62,911
ARA2002	18.5	624.35	605.85	5	623.35	1.0	58,482
Area B							
ARB1001	59.0	681.91	622.91	1	--	--	11,743
ARB2001	38.5	675.46	618.96	3	639.46 633.96 631.46	1.0 4.0 1.0	12,904 43,058 27,019
ARB2002	35.0	645.27	610.27	2	--	--	10,160
ARB2003	40.0	650.64	610.64	2	636.14	1.5	22,627
ARB2004	39.5	655.61	616.11	2	635.11	1.5	33,866
ARB2005	30.5	644.13	613.63	1	--	--	9,457
ARB2006	29.0	640.39	611.39	1	637.89	0.5	12,780
ARB2007	44.5	659.84	615.34	1	--	--	8,679
ARB2008	85.5	697.36	611.86	1	--	--	11,443
ARB2010	25.0	645.43	620.43	2	--	--	7,537
Area C							
ARC1001	10.0	636.26	626.26	2	631.26	2.5	64,524
ARC1002	13.0	639.13	626.13	1	631.63	3.0	75,621
ARC1003	16.5	641.48	624.98	5	631.98	2.0	58,477
ARC1005	35.0	662.17	627.17	2	628.17	0.5	15,307
ARC1006	78.0	688.89	610.89	3	625.39	2.5	33,228
ARC1008	14.5	637.57	623.07	5	632.57	2.5	73,837
ARC2001	34.5	651.73	617.23	1	631.23	2.5	33,771
ARC2002	36.5	659.96	623.46	3	629.96	2.5	48,080
ARC2003	41.5	663.42	621.92	5	642.42	0.5	13,817
ARC2004	36.0	656.84	620.84	8	653.34 631.34	0.5 4.0	12,797 32,941
ARC2005	40.0	659.91	619.91	4	630.91	3.5	78,344
ARC2006	42.0	659.90	617.90	5	633.40	4.0	53,432
ARC2007	40.0	658.49	618.49	4	635.49	4.5	60,197
ARC2008	30.5	662.58	632.08	1	--	--	9,769
ARC2009	44.5	665.90	621.40	4	632.40 629.90	1.5 1.0	21,151 14,571
ARC2010	45.0	666.13	621.13	3	634.63 632.63	2.0 1.0	25,098 28,850
ARC2011	45.5	665.77	620.27	1	636.27	1.5	17,353
ARC2012	78.0	690.05	612.05	3	617.55	0.5	18,008
ARC2013	68.5	684.42	615.92	3	630.92	2.0	26,293
ARC2014	21.0	633.22	612.22	1	623.22	3.0	29,225
ARC2015	20.0	631.31	611.31	1	623.31	1.0	16,274
ARC2016	19.0	629.49	610.49	4	626.99	1.5	21,344
ARC2017	39.5	637.53	598.03	4	623.53	4.0	85,521
ARC2018	31.0	644.16	613.16	2	--	--	11,326
ARC2019	55.0	668.09	613.09	2	638.59 632.59	1.0 5.0	17,331 65,819

[a]"cpm" = counts per minute as measured by the 2×2 borehole probe.
[b]"--" = considered to be free of MED-related residues.

feet msl = feet relative to mean sea level.
feet bgs = feet below ground surface.

Table 3-2. Example of Sample Shifts due to Sloughing and Compaction

Borehole	Depth (feet)	Sample Number	Down-hole Gamma (cpm)	^{226}Ra (pCi/g)	^{230}Th (pCi/g)
ARC1001	2.0		8,684		
ARC1001	2.5	ARC1001SS060320	10,313	2.57	96.36
ARC1001	3.0		17,140		
ARC1001	3.5		44,306		
ARC1005	33.0		8,944		
ARC1005	33.5	ARC1005SS064020	9,725	2.04	40.20
ARC1005	34.0		15,307		
ARC1005	34.5	ARC1005SS064140	12,150	0.61	-1.20
ARC1005	35.0		7,957		
ARC1005	35.5		4,870		

Note: Elevated radium-226 and thorium-230 results should correspond with elevated down-hole gamma results. This table illustrates a shift where elevated concentrations appear to be associated with background count rate results when, in fact, the elevated concentrations are associated with the elevated count rate results shown in the table. This shift was caused by sloughing and/or compaction of the core so that soil samplers were unable to properly align the ex-situ sample location relative to the actual in-situ sample depth where the elevated count rate results were obtained.

Table 3-3. Side-by-Side Comparison of Off-Site and On-Site Analytical Data

		Radium-226		Thorium-230		Uranium-238	
Sample ID	**Units**	**Off-Site**	**BEGe**	**Off-Site**	**BEGe**	**Off-Site**	**BEGe**
ARA1001SS060180	pCi/g	0.98	0.80	1.08	1.15	0.96	1.64
ARA1001SS061140	pCi/g	1.16	0.58	1.95	4.71	1.03	-0.42
ARA1001SS081200	pCi/g	1.00	0.67	1.78	20.70	1.21	0.72
ARA1001SS140140	pCi/g	0.73	0.69	0.75	-9.31	0.71	1.07
ARA1001SS140280	pCi/g	0.15	0.80	1.13	6.26	0.74	1.32
ARA1001SS141100	pCi/g	0.82	1.02	3.53	10.42	1.02	2.11
ARA1001SS162300	pCi/g	0.97	0.80	1.45	7.96	0.94	1.39
ARA1002SS060080	pCi/g	4.73	2.78	39.3	56.46	3.78	5.03
ARA1002SS060180	pCi/g	11.0	13.39	129	195.54	9.8	12.52
ARA1002SS121320	pCi/g	0.99	0.83	6.53	6.57	2.02	2.23
ARA1002SS121980	pCi/g	2.68	1.07	16.8	10.81	2.4	2.04
ARA1002SS122640	pCi/g	2.20	1.50	1.81	-0.13	1.77	1.82
ARA1003SS060120	pCi/g	1.51	0.89	3.53	-3.67	1.81	1.51
ARA1003SS120240	pCi/g	1.34	0.77	1.52	17.23	1.09	1.90
ARA1003SS241920	pCi/g	2.55	0.80	1.39	-6.00	1.02	1.41
ARA1004SS121740	pCi/g	0.99	0.67	1.58	2.55	0.63	0.43
ARA2001SS060120	pCi/g	57.2	31.73	549	672.95	31.7	33.73
ARA2001SS060180	pCi/g	2.18	1.42	18.4	12.25	3.1	3.56
ARA2001SS240360	pCi/g	1.30	1.19	10.7	10.49	1.56	1.66
ARA2002SS061860	pCi/g	1.42	1.47	2.13	4.92	1.71	1.35
ARA2002SS080080	pCi/g	43.3	20.00	405	491.78	30.7	27.11
ARA2002SS081620	pCi/g	6.01	4.19	11.7	12.33	5.15	4.43
ARA2002SS180300	pCi/g	12.2	4.97	117	109.97	12	11.32
ARA2002SS242280	pCi/g	1.93	1.51	1.83	5.68	2.06	1.70
ARC1001SS060320	pCi/g	5.47	2.57	112	96.36	9.90	8.44
ARC1001SS120960	pCi/g	0.62	0.50	0.87	-4.86	0.79	0.62
ARC1002SS061020	pCi/g	6.47	3.13	106	80.00	8.20	6.79
ARC1003SS060960	pCi/g	12.5	5.32	221	213	19.3	17.5
ARC1003SS061020	pCi/g	4.08	2.32	54.7	51.0	8.80	6.92
ARC1003SS061680	pCi/g	0.31	0.29	0.53	-8.68	0.50	-0.03
ARC1003SS120800	pCi/g	2.85	1.23	50	24.2	4.70	2.07
ARC1003SS121320	pCi/g	3.17	2.16	60.2	82.5	7.90	6.97
ARC1008SS060360	pCi/g	9.60	5.46	185	235	16.9	17.8
ARC1008SS060420	pCi/g	1.45	1.35	30.8	13.8	3.49	2.88
ARC1008SS060760	pCi/g	1.01	0.71	0.97	-8.58	0.79	0.91
ARC1008SS120320	pCi/g	21.1	5.27	450	234	30.7	14.8
ARC1008SS120540	pCi/g	0.70	0.62	2.61	6.79	1.81	2.56
ARC2009SS063960	pCi/g	4.79	2.72	65.8	80.4	5.69	6.86
ARC2009SS123900	pCi/g	7.54	3.27	112	89.9	8.30	6.50
ARC2009SS124440	pCi/g	2.70	1.24	24.7	19.9	2.86	1.94
ARC2013SS066360	pCi/g	9.90	6.01	192	226	27.4	24.9
ARC2013SS126240	pCi/g	4.02	2.26	51.4	61.5	6.44	5.82
ARC2013SS246600	pCi/g	4.30	2.08	76.0	67.3	12.0	9.28
COR0001SS060180	pCi/g	10.9	4.61	136	161	9.7	11.5
COR0001SS060240	pCi/g	20.3	7.01	378	328	37.2	33.5
COR0001SS060960	pCi/g	2.88	2.78	38.8	62.0	3.54	5.35
COR0001SS120680	pCi/g	4.49	1.34	20.9	24.8	3.04	5.03
COR0001SS120780	pCi/g	4.26	3.48	73.0	85.2	16.7	17.4
COR0001SS122160	pCi/g	0.35	1.45	0.75	0.78	0.35	1.35
COR0001SS140140	pCi/g	10.0	4.61	69.4	87.6	4.17	5.01
COR0001SS140900	pCi/g	0.70	0.51	8.80	8.21	1.29	0.91
COR0001SS142060	pCi/g	1.71	1.15	5.74	-3.80	1.67	1.27
COR0001SS142280	pCi/g	1.55	1.56	2.19	14.1	1.98	1.75
COR0001SS180420	pCi/g	12.1	5.24	167	192	14.6	15.0
COR0002SS060180	pCi/g	1.38	0.61	2.01	6.94	0.74	1.29
COR0002SS060900	pCi/g	1.21	0.35	2.97	4.15	1.64	0.44
COR0002SS120360	pCi/g	1.02	0.64	1.62	-10.7	0.60	1.22
COR0002SS481800	pCi/g	1.73	0.62	1.92	-1.96	0.74	0.86

Table 4-1. In-situ Volume Estimates Based on Areal Extent of MED-related Materials and Associated Thickness

Thickness (ft)	Sq. Ft.	Incremental Volume (yd3)	Cummulative Volume (yd3)
0.5	296,550	5,492	5,492
1.0	236,205	4,374	9,866
2.0	144,208	5,341	15,207
3.0	89,801	3,326	18,533
4.0	56,630	2,097	20,630
6.0	18,093	1,340	21,970
9.0	8,920	991	22,961

Table 4-2. Leach Rate and Distribution Coefficient Estimates for Off-Site Laboratory Soil Sample and TCLP Results

	Radium-226					Thorium-230					Uranium-238				
Sample No.	Cs (pCi/g)	Cw (pCi/L)	Kd * (cm3/g)	Kd ** (cm3/g)	L (yr-1)	Cs (pCi/g)	Cw (pCi/L)	Kd * (cm3/g)	Kd ** (cm3/g)	L (yr-1)	Cs (pCi/g)	Cw (pCi/L)	Kd * (cm3/g)	Kd ** (cm3/g)	L (yr-1)
MED-related Residues															
ARA1004SS060080	87.0	83.3	1.0E+03	7.1E+01	5.8E-03	659	1.59	4.1E+05	2.8E+04	1.5E-05	58.3	174	3.4E+02	2.3E+01	1.8E-02
ARA2001SS060120	57.2	28.2	2.0E+03	1.4E+02	3.0E-03	549	18.7	2.9E+04	2.0E+03	2.1E-04	31.7	140	2.3E+02	1.5E+01	2.7E-02
ARC1008SS120320	21.1	22.8	9.3E+02	6.3E+01	6.6E-03	450	0.74	6.1E+05	4.1E+04	1.0E-05	30.7	70.0	4.4E+02	3.0E+01	1.4E-02
ARA2002SS080080	43.3	210	2.1E+02	1.4E+01	2.9E-02	405	1.13	3.6E+05	2.4E+04	1.7E-05	30.7	101	3.0E+02	2.0E+01	2.0E-02
COR0001SS060240	20.3	34.6	5.9E+02	4.0E+01	1.0E-02	378	0.87	4.3E+05	2.9E+04	1.4E-05	37.2	88.0	4.2E+02	2.8E+01	1.4E-02
ARA1004SS060140	32.0	55.1	5.8E+02	3.9E+01	1.0E-02	320	1.94	1.6E+05	1.1E+04	3.7E-05	26.6	143	1.9E+02	1.2E+01	3.3E-02
ARC1003SS060960	12.5	7.20	1.7E+03	1.2E+02	3.5E-03	221	23.9	9.2E+03	6.3E+02	6.6E-04	19.3	406	4.8E+01	3.0E+00	1.3E-01
ARA1004SS120720	21.1	59.7	3.5E+02	2.4E+01	1.7E-02	220	0.39	5.6E+05	3.8E+04	1.1E-05	19.3	119	1.6E+02	1.1E+01	3.7E-02
ARC2013SS066360	9.90	36.5	2.7E+02	1.8E+01	2.2E-02	192	20.5	9.4E+03	6.3E+02	6.5E-04	27.4	513	5.3E+01	3.4E+00	1.1E-01
ARA1004SS121380	27.2	42.0	6.5E+02	4.4E+01	9.4E-03	188	0.20	9.4E+05	6.4E+04	6.5E-06	13.6	42.7	3.2E+02	2.1E+01	1.9E-02
ARC1008SS060360	9.60	31.1	3.1E+02	2.1E+01	2.0E-02	185	0.33	5.6E+05	3.8E+04	1.1E-05	16.9	92.0	1.8E+02	1.2E+01	3.3E-02
COR0001SS180420	12.1	21.3	5.7E+02	3.8E+01	1.1E-02	167	0.43	3.9E+05	2.6E+04	1.6E-05	14.6	76.0	1.9E+02	1.3E+01	3.2E-02
COR0001SS060180	10.9	18.4	5.9E+02	4.0E+01	1.0E-02	136	0.48	2.8E+05	1.9E+04	2.1E-05	9.70	67.0	1.4E+02	9.6E+00	4.2E-02
ARA1002SS060180	11.0	34.8	3.2E+02	2.1E+01	1.9E-02	129	0.59	2.2E+05	1.5E+04	2.8E-05	9.80	97.0	1.0E+02	6.6E+00	6.0E-02
ARA2002SS180300	12.2	20.3	6.0E+02	4.1E+01	1.0E-02	117	0.55	2.1E+05	1.4E+04	2.9E-05	12.0	72.0	1.7E+02	1.1E+01	3.6E-02
ARC1001SS060320	5.47	24.1	2.3E+02	1.5E+01	2.7E-02	112	0.55	2.0E+05	1.4E+04	3.0E-05	9.90	85.0	1.2E+02	7.7E+00	5.2E-02
ARC2009SS123900	7.54	10.3	7.3E+02	4.9E+01	8.3E-03	112	0.66	1.7E+05	1.2E+04	3.6E-05	8.30	88.0	9.4E+01	6.2E+00	6.4E-02
ARC1002SS061020	6.47	15.4	4.2E+02	2.8E+01	1.4E-02	106	0.38	2.8E+05	1.9E+04	2.2E-05	8.20	35.8	2.3E+02	1.5E+01	2.6E-02
ARC2013SS246600	4.30	11.2	3.8E+02	2.6E+01	1.6E-02	76.0	0.63	1.2E+05	8.2E+03	5.0E-05	12.0	144	8.3E+01	5.4E+00	7.3E-02
COR0001SS120780	4.26	3.75	1.1E+03	7.7E+01	5.3E-03	73.0	0.17	4.3E+05	2.9E+04	1.4E-05	16.7	3.00	5.6E+03	3.8E+02	1.1E-03
COR0001SS140140	10.0	20.7	4.8E+02	3.3E+01	1.3E-02	69.4	0.81	8.6E+04	5.8E+03	7.1E-05	4.17	16.1	2.6E+02	1.7E+01	2.3E-02
ARC2009SS063960	4.79	22.0	2.2E+02	1.5E+01	2.8E-02	65.8	0.68	9.7E+04	6.6E+03	6.3E-05	5.69	72.0	7.9E+01	5.2E+00	7.7E-02
ARC1003SS121320	3.17	6.50	4.9E+02	3.3E+01	1.2E-02	60.2	8.60	7.0E+03	4.7E+02	8.7E-04	7.90	66.2	1.2E+02	7.9E+00	5.1E-02
ARC1003SS061020	4.08	8.00	5.1E+02	3.4E+01	1.2E-02	54.7	0.28	2.0E+05	1.3E+04	3.1E-05	8.80	116	7.6E+01	4.9E+00	8.0E-02
ARC2013SS126240	4.0	9.90	4.1E+02	2.7E+01	1.5E-02	51.4	8.10	6.3E+03	4.3E+02	9.6E-04	6.44	114	5.6E+01	3.6E+00	1.1E-01
ARC1003SS120800	2.85	0.09	3.2E+04	2.1E+03	1.9E-04	50.0	0.56	8.9E+04	6.1E+03	6.8E-05	4.70	69.0	6.8E+01	4.4E+00	8.9E-02
ARA1002SS060080	4.73	12.3	3.8E+02	2.6E+01	1.6E-02	39.3	0.27	1.5E+05	9.9E+03	4.2E-05	3.78	26.1	1.4E+02	9.6E+00	4.2E-02
COR0001SS060960	2.88	1.13	2.5E+03	1.7E+02	2.4E-03	38.8	0.22	1.8E+05	1.2E+04	3.4E-05	3.54	0.80	4.4E+03	3.0E+02	1.4E-03
ARC1008SS060420	1.45	5.14	2.8E+02	1.9E+01	2.1E-02	30.8	0.63	4.9E+04	3.3E+03	1.2E-04	3.49	11.7	3.0E+02	2.0E+01	2.0E-02
ARC2009SS124440	2.70	7.24	3.7E+02	2.5E+01	1.6E-02	24.7	0.62	4.0E+04	2.7E+03	1.5E-04	2.86	31.4	9.1E+01	6.0E+00	6.7E-02
COR0001SS120680	4.49	8.20	5.5E+02	3.7E+01	1.1E-02	20.9	0.40	5.2E+04	3.5E+03	1.2E-04	3.04	17.6	1.7E+02	1.2E+01	3.5E-02
ARA2001SS060180	2.18	2.11	1.0E+03	7.0E+01	5.9E-03	18.4	0.39	4.7E+04	3.2E+03	1.3E-04	3.10	10.7	2.9E+02	1.9E+01	2.1E-02
ARA1002SS121980	2.68				0.0E+00	16.8	0.92	1.8E+04	1.2E+03	3.3E-04	2.40	5.90	4.1E+02	2.7E+01	1.5E-02
COR0001SS140900	0.70	3.84	1.8E+02	1.2E+01	3.3E-02	8.80	0.21	4.2E+04	2.8E+03	1.5E-04	1.29	4.50	2.9E+02	1.9E+01	2.1E-02
ARA2001SS240360	1.30	3.04	4.3E+02	2.9E+01	1.4E-02	10.7	0.19	5.6E+04	3.8E+03	1.1E-04	1.56	4.60	3.4E+02	2.3E+01	1.8E-02
		Average	1.6E+03	1.1E+02				2.1E+05	1.5E+04				4.7E+02	3.2E+01	
		Standard Deviation	5.3E+03	3.6E+02				2.2E+05	1.5E+04				1.1E+03	7.8E+01	

Table 4-2. Leach Rate and Distribution Coefficient Estimates for Off-Site Laboratory Soil Sample and TCLP Results (cont'd)

	Radium-226					Thorium-230					Uranium-238				
Sample No.	Cs (pCi/g)	Cw (pCi/L)	Kd * (cm3/g)	Kd ** (cm3/g)	L (yr-1)	Cs (pCi/g)	Cw (pCi/L)	Kd * (cm3/g)	Kd ** (cm3/g)	L (yr-1)	Cs (pCi/g)	Cw (pCi/L)	Kd * (cm3/g)	Kd ** (cm3/g)	L (yr-1)
Non-MED-related Residues															
ARA2002SS081620	6.01	3.91	1.5E+03	1.0E+02	3.9E-03	11.7	0.28	4.2E+04	2.8E+03	1.5E-04	5.15	6.70	7.7E+02	5.2E+01	7.9E-03
ARA1002SS121320	0.99	0.82	1.2E+03	8.2E+01	5.0E-03	6.53	0.79	8.3E+03	5.6E+02	7.3E-04	2.02	11.5	1.8E+02	1.2E+01	3.5E-02
COR0001SS142060	1.71	0.65	2.6E+03	1.8E+02	2.3E-03	5.74	0.09	6.2E+04	4.2E+03	9.8E-05	1.67	0.79	2.1E+03	1.4E+02	2.9E-03
ARA1001SS141100	0.82	1.63	5.0E+02	3.4E+01	1.2E-02	3.53	0.18	2.0E+04	1.3E+03	3.1E-04	1.02	1.71	6.0E+02	4.0E+01	1.0E-02
ARA1003SS060120	1.51	1.84	8.2E+02	5.5E+01	7.4E-03	3.53	0.32	1.1E+04	7.5E+02	5.5E-04	1.81	2.82	6.4E+02	4.3E+01	9.4E-03
COR0003SS122340	1.12	0.69	1.6E+03	1.1E+02	3.7E-03	2.76	0.16	1.7E+04	1.2E+03	3.5E-04	1.51	0.93	1.6E+03	1.1E+02	3.7E-03
ARC1008SS120540	0.70	1.31	5.3E+02	3.6E+01	1.1E-02	2.61	0.31	8.4E+03	5.7E+02	7.2E-04	1.81	4.30	4.2E+02	2.8E+01	1.4E-02
COR0001SS142280	1.55	24.50	6.3E+01	4.1E+00	9.6E-02	2.19	0.50	4.4E+03	3.0E+02	1.4E-03	1.98	211	9.4E+00	4.3E-01	6.5E-01
ARA2002SS061860	1.42	0.29	4.9E+03	3.3E+02	1.2E-03	2.13	0.18	1.2E+04	8.2E+02	5.0E-04	1.71	1.04	1.6E+03	1.1E+02	3.7E-03
COR0002SS060180	1.38	0.97	1.4E+03	9.6E+01	4.3E-03	2.01	0.24	8.4E+03	5.7E+02	7.2E-04	0.74	1.49	5.0E+02	3.3E+01	1.2E-02
ARA1001SS061140	1.16	0.59	2.0E+03	1.3E+02	3.1E-03	1.95	0.34	5.7E+03	3.9E+02	1.1E-03	1.03	0.57	1.8E+03	1.2E+02	3.4E-03
COR0002SS481800	1.73	1.64	1.1E+03	7.1E+01	5.7E-03	1.92	0.09	2.1E+04	1.4E+03	2.8E-04	0.74	1.54	4.8E+02	3.2E+01	1.3E-02
COR0003SS122580	2.04	0.28	7.3E+03	4.9E+02	8.3E-04	1.88	0.27	7.0E+03	4.8E+02	8.6E-04	1.76	0.85	2.1E+03	1.4E+02	2.9E-03
ARA2002SS242280	1.93	0.63	3.1E+03	2.1E+02	2.0E-03	1.83	0.09	2.1E+04	1.4E+03	2.9E-04	2.06	2.60	7.9E+02	5.3E+01	7.7E-03
ARA1002SS122640	2.20	0.40	5.5E+03	3.7E+02	1.1E-03	1.81	0.31	5.8E+03	4.0E+02	1.0E-03	1.77	0.99	1.8E+03	1.2E+02	3.4E-03
ARA1001SS081200	1.00	1.00	1.0E+03	6.8E+01	6.1E-03	1.78	0.30	5.9E+03	4.0E+02	1.0E-03	1.21	0.88	1.4E+03	9.3E+01	4.4E-03
COR0002SS120360	1.02	1.54	6.6E+02	4.5E+01	9.2E-03	1.62	0.24	6.8E+03	4.6E+02	9.0E-04	0.60	1.53	3.9E+02	2.6E+01	1.5E-02
ARA1004SS121740	0.99	0.34	2.9E+03	2.0E+02	2.1E-03	1.58	0.08	2.0E+04	1.3E+03	3.1E-04	0.63	2.51	2.5E+02	1.7E+01	2.4E-02
ARA1003SS120240	1.34	1.01	1.3E+03	9.0E+01	4.6E-03	1.52	0.11	1.4E+04	9.4E+02	4.4E-04	1.09	1.47	7.4E+02	5.0E+01	8.2E-03
COR0003SS122460	1.02	1.17	8.7E+02	5.9E+01	7.0E-03	1.52	0.13	1.2E+04	7.9E+02	5.2E-04	1.10	0.98	1.1E+03	7.6E+01	5.4E-03
ARA1001SS162300	0.97	1.11	8.7E+02	5.9E+01	6.9E-03	1.45	0.12	1.2E+04	8.1E+02	5.1E-04	0.94	2.62	3.6E+02	2.4E+01	1.7E-02
ARA1003SS241920	2.55	1.04	2.5E+03	1.7E+02	2.5E-03	1.39	0.27	5.1E+03	3.5E+02	1.2E-03	1.02	1.21	8.4E+02	5.7E+01	7.2E-03
ARA1004SS061500	2.43	1.28	1.9E+03	1.3E+02	3.2E-03	1.28	0.34	3.8E+03	2.5E+02	1.6E-03	0.85	1.57	5.4E+02	3.6E+01	1.1E-02
ARA1001SS140280	0.15	0.33	4.5E+02	3.1E+01	1.3E-02	1.13	0.42	2.7E+03	1.8E+02	2.3E-03	0.74	3.58	2.1E+02	1.4E+01	2.9E-02
ARA1001SS060180	0.98	1.48	6.6E+02	4.5E+01	9.2E-03	1.08	0.23	4.7E+03	3.2E+02	1.3E-03	0.96	2.90	3.3E+02	2.2E+01	1.8E-02
ARC1008SS060760	1.01	0.98	1.0E+03	7.0E+01	5.9E-03	0.97	0.27	3.6E+03	2.4E+02	1.7E-03	0.79	2.37	3.3E+02	2.2E+01	1.8E-02
ARC1001SS120960	0.62	-0.01				0.87	0.15	5.8E+03	3.9E+02	1.0E-03	0.79	2.43	3.3E+02	2.2E+01	1.9E-02
ARC1004SS120120	0.85	1.02	8.3E+02	5.6E+01	7.3E-03	0.87	0.15	5.8E+03	3.9E+02	1.0E-03	1.00	1.49	6.7E+02	4.5E+01	9.0E-03
ARC1004SS242040	0.65	0.03	2.2E+04	1.5E+03	2.8E-04	0.86	0.26	3.3E+03	2.2E+02	1.8E-03	0.68	0.79	8.6E+02	5.8E+01	7.0E-03
ARC1004SS242400	0.71	1.00	7.1E+02	4.8E+01	8.5E-03	0.82	0.23	3.6E+03	2.4E+02	1.7E-03	0.80	0.44	1.8E+03	1.2E+02	3.3E-03
ARA1001SS140140	0.73	1.28				0.75	0.20	3.8E+03	2.6E+02	1.6E-03	0.71	1.51	4.7E+02	3.2E+01	1.3E-02
COR0001SS122160	0.35	16.5	2.1E+01	1.2E+00	2.9E-01	0.75	0.34	2.2E+03	1.5E+02	2.7E-03	0.35	28.2	1.2E+01	6.2E-01	4.9E-01
ARC1003SS061680	0.31	1.27	2.4E+02	1.6E+01	2.5E-02	0.53	0.45	1.2E+03	8.0E+01	5.1E-03	0.50	0.13	3.8E+03	2.6E+02	1.6E-03
		Average	2.3E+03	1.6E+02				1.1E+04	7.6E+02				9.1E+02	6.1E+01	
		Standard Deviation	3.9E+03	2.7E+02				1.2E+04	8.3E+02				8.1E+02	5.5E+01	

Sample assumed to contain MED-related residues if Th-230 soil concentration is significantly elevated relative to Ra-226 and down-hole gamma log shows elevated gamma radiation levels.

Cs = soil concentration
Cw = leachate concentration
Kd* = distribution coefficient calculated as (Cs x 1000) / Cw
Kd** = distribution coefficient calculated using RESRAD equations and estimated leach rates (ANL 2001, Appendix E)
L = leach rate estimated using combination of DUST and RESRAD models

Table 4-3: Chemical Results for Remediation Worker Protection Considerations

ANALYTE / SAMPLE ID	COR0000SS120901	ARA1002SS121800	ARA1003SS121680
	(µg/kg)	(µg/kg)	(µg/kg)
VOLATILE ORGANICS			
1,1,1,2-TETRACHLOROETHANE	9.8 U	8.7 U	6700 U
1,1,1-TRICHLOROETHANE	9.8 U	8.7 U	6700 U
1,1,2,2-TETRACHLOROETHANE	9.8 U	8.7 U	6700 U
1,1,2-TRICHLOROETHANE	9.8 U	8.7 U	6700 U
1,1-DICHLOROETHANE	9.8 U	8.7 U	6700 U
1,1-DICHLOROETHENE	9.8 U	8.7 U	6700 U
1,1-DICHLOROPROPENE	9.8 U	8.7 U	6700 U
1,2,3-TRICHLOROBENZENE	9.8 U	10	6700 U
1,2,3-TRICHLOROPROPANE	9.8 U	8.7 U	6700 U
1,2,4-TRICHLOROBENZENE	9.8 U	6.2 J	6700 U
1,2,4-TRIMETHYLBENZENE	320	84	150000
1,2-DIBROMO-3-CHLOROPROPANE	20 U	17 U	13000 U
1,2-DIBROMOETHANE	9.8 U	8.7 U	6700 U
1,2-DICHLOROBENZENE	65	12	6700 U
1,2-DICHLOROETHANE	9.8 U	8.7 U	6700 U
1,2-DICHLOROPROPANE	9.8 U	8.7 U	6700 U
1,3,5-TRIMETHYLBENZENE	130	31	34000
1,3-DICHLOROBENZENE	2.3 J	7.1 J	6700 U
1,3-DICHLOROPROPANE	9.8 U	8.7 U	6700 U
1,4-DICHLOROBENZENE	21	31	6700 U
1-CHLOROHEXANE	9.8 U	8.7 U	6700 U
2,2-DICHLOROPROPANE	9.8 U	8.7 U	6700 U
2-BUTANONE	180	35 U	27000 U
2-CHLOROTOLUENE	9.8 U	8.7 U	6700 U
2-HEXANONE	39 U	35 U	27000 U
4-CHLOROTOLUENE	9.8 U	8.7 U	6700 U
4-METHYL-2-PENTANONE	39 U	35 U	27000 U
ACETONE	660	37	27000 U
BENZENE	9.9	12	1600 J
BROMOBENZENE	9.8 U	8.7 U	6700 U
BROMOCHLOROMETHANE	9.8 U	8.7 U	6700 U
BROMODICHLOROMETHANE	9.8 U	8.7 U	6700 U
BROMOFORM	9.8 U	8.7 U	6700 U
BROMOMETHANE	20 U	17 U	13000 U
CARBON DISULFIDE	23	8.7 U	6700 U
CARBON TETRACHLORIDE	9.8 U	8.7 U	6700 U
CHLOROBENZENE	9.8 U	8.7 U	6700 U
CHLOROETHANE	20 U	17 U	13000 U
CHLOROFORM	9.8 U	8.7 U	6700 U
CHLOROMETHANE	20 U	17 U	13000 U
CIS-1,2-DICHLOROETHENE	9.8 U	2.4 J	6700 U
CIS-1,3-DICHLOROPROPENE	9.8 U	8.7 U	6700 U
DIBROMOCHLOROMETHANE	9.8 U	8.7 U	6700 U
DIBROMOMETHANE	9.8 U	8.7 U	6700 U
DICHLORODIFLUOROMETHANE	20 U	17 U	13000 U
ETHYLBENZENE	390 J	8.7 U	670000
HEXACHLOROBUTADIENE	9.8 U	8.7 U	6700 U
IODOMETHANE	9.8 U	8.7 U	6700 U
ISOPROPYLBENZENE	120	200	5600 J
M+P-XYLENE	460	120000	560000
METHYL TERTIARY BUTYL ETHER	9.8 U	8.7 U	6700 U

ANALYTE / SAMPLE ID	COR0000SS120901	ARA1002SS121800	ARA1003SS121680
	(µg/kg)	(µg/kg)	(µg/kg)
METHYLENE CHLORIDE	9.8 U	8.7 U	1800 J,
NAPHTHALENE	98	38	49000
N-BUTYLBENZENE	12	3.7 J	15000
N-PROPYLBENZENE	61	64	11000
O-XYLENE	210	31000	130000
P-ISOPROPYLTOLUENE	90	15	9700
SEC-BUTYLBENZENE	15	8.7 U	6200 J
STYRENE	40	8.7 U	35000
TERT-BUTYLBENZENE	9.8 U	8.7 U	6700 U
TETRACHLOROETHENE	9.8 U	2.9 J	6700 U
TOLUENE	87	5700	8400
TRANS-1,2-DICHLOROETHENE	9.8 U	8.7 U	6700 U
TRANS-1,3-DICHLOROPROPENE	9.8 U	8.7 U	6700 U
TRICHLOROETHENE	9.8 U	8.7 U	6700 U
TRICHLOROFLUOROMETHANE	9.8 U	8.7 U	6700 U
TRICHLOROTRIFLUOROETHANE	9.8 U	8.7 U	6700 U
VINYL ACETATE	39 U	35 U	27000 U
VINYL CHLORIDE	20 U	17 U	13000 U
SEMI-VOLATILE ORGANICS			
1,2,4-TRICHLOROBENZENE	5000 U		
1,2-DICHLOROBENZENE	660 J		
1,3-DICHLOROBENZENE	5000 U		
1,4-DICHLOROBENZENE	5000 U		
2,3,4,6-TETRACHLOROPHENOL	25000 U		
2,4,5-TRICHLOROPHENOL	5000 U		
2,4,6-TRICHLOROPHENOL	5000 U		
2,4-DICHLOROPHENOL	5000 U		
2,4-DIMETHYLPHENOL	5000		
2,4-DINITROPHENOL	12000 U		
2,4-DINITROTOLUENE	5000 U		
2,6-DINITROTOLUENE	5000 U		
2-CHLORONAPHTHALENE	5000 U		
2-CHLOROPHENOL	5000 U		
2-METHYLNAPHTHALENE	1400 J		
2-METHYLPHENOL	5000 U		
2-NITROANILINE	12000 U		
2-NITROPHENOL	5000 U		
3,3'-DICHLOROBENZIDINE	12000 U		
3-NITROANILINE	12000 U		
4,6-DINITRO-2-METHYLPHENOL	12000 U		
4-BROMOPHENYL PHENYL ETHER	5000 U		
4-CHLORO-3-METHYLPHENOL	5000 U		
4-CHLOROANILINE	5000 U		
4-CHLOROPHENYL PHENYL ETHER	5000 U		
4-METHYLPHENOL	15000		
4-NITROANILINE	12000 U		
4-NITROPHENOL	12000 U		
ACENAPHTHENE	1200 J		
ACENAPHTHYLENE	5000 U		
ANILINE	12000 U		
ANTHRACENE	3000 J		

Table 4-3: Chemical Results for Remediation Worker Protection Considerations

ANALYTE / SAMPLE ID	COR0000SS120901	ARA1002SS121800	ARA1003SS121680
	(µg/kg)	(µg/kg)	(µg/kg)
AZOBENZENE	5000 U		
BENZO(A)ANTHRACENE	4200 J		
BENZO(A)PYRENE	3500 J		
BENZO(B)FLUORANTHENE	5600		
BENZO(G,H,I)PERYLENE	5000 U		
BENZO(K)FLUORANTHENE	2000 J		
BENZOIC ACID	12000 U		
BENZYL ALCOHOL	5000 U		
BIS(2-CHLOROETHYL)ETHER	5000 U		
BIS(2-CHLOROISOPROPYL)ETHER	5000 U		
BIS(2-ETHYLHEXYL)PHTHALATE	45000		
BUTYL BENZYL PHTHALATE	2200 J		
CARBAZOLE	1200 J		
CHRYSENE	3800 J		
DIBENZO(A,H)ANTHRACENE	5000 U		
DIBENZOFURAN	1000 J		
DIETHYL PHTHALATE	5000 U		
DIMETHYL PHTHALATE	5000 U		
DI-N-BUTYL PHTHALATE	690 J		
DI-N-OCTYL PHTHALATE	5000 U		
FLUORANTHENE	9500		
FLUORENE	2000 J		
HEXACHLOROBENZENE	5000 U		
HEXACHLOROBUTADIENE	5000 U		
HEXACHLOROCYCLOPENTADIENE	5000 U		
HEXACHLOROETHANE	5000 U		
INDENO(1,2,3-CD)PYRENE	5000 U		
ISOPHORONE	5000 U		
NAPHTHALENE	1500 J		
NITROBENZENE	5000 U		
N-NITROSODIMETHYLAMINE	5000 U		
N-NITROSO-DI-N-PROPYLAMINE	5000 U		
N-NITROSODIPHENYLAMINE	920 J		
PENTACHLOROPHENOL	12000 U		
PHENANTHRENE	9500		
PHENOL	2500 J		
PYRENE	11000		
PYRIDINE	5000 U		
PCBs			
AROCLOR-1016	660		
AROCLOR-1221	300 U		
AROCLOR-1232	150 U		
AROCLOR-1242	150 U		
AROCLOR-1248	1200 J		
AROCLOR-1254	150 U		
AROCLOR-1260	150 U		
PESTICIDES			
4,4'-DDD	5 U		
4,4'-DDE	5 U		
4,4'-DDT	5 U		

Table 4-3: Chemical Results for Remediation Worker Protection Considerations

ANALYTE / SAMPLE ID	COR0000SS120901	ARA1002SS121800	ARA1003SS121680
	(µg/kg)	(µg/kg)	(µg/kg)
ALDRIN	2.5 U		
ALPHA-BHC	2.5 U		
ALPHA-CHLORDANE	2.5 U		
BETA-BHC	2.5 U		
DELTA-BHC	2.5 U		
DIELDRIN	5 U		
ENDOSULFAN I	2.5 U		
ENDOSULFAN II	5 U		
ENDOSULFAN SULFATE	5 U		
ENDRIN	5 U		
ENDRIN ALDEHYDE	5 U		
ENDRIN KETONE	5 U		
GAMMA-BHC (LINDANE)	2.5 U		
GAMMA-CHLORDANE	2.5 U		
HEPTACHLOR	2.5 U		
HEPTACHLOR EPOXIDE	2.5 U		
METHOXYCHLOR	25 U		
TOXAPHENE	250 U		
METALS			
ALUMINUM	23000		
ANTIMONY	10		
ARSENIC	17		
BARIUM	120		
BERYLLIUM	0.39		
CADMIUM	12		
CALCIUM	18000		
CHROMIUM	100		
COBALT	9.8		
COPPER	1700		
IRON	88000		
LEAD	690		
MAGNESIUM	4300		
MANGANESE	1100		
MERCURY	0.29		
NICKEL	98		
POTASSIUM	1300		
SELENIUM	1.6 U		
SILVER	3.4		
SODIUM	890		
THALLIUM	1.7 U		
VANADIUM	20		
ZINC	2400		

U = Not Detected above stated detection limit
J = Estimated value

Table 4-4: TCLP Results Compared to Regulatory Limits (sheet 1 of 6)
(all results are in mg/L)

ANALYTE / SAMPLE ID	Regulatory Limit (mg/L)	COR0001 SS060180	COR0001 SS060240	COR0001 SS060960	COR0001 SS120680	COR0001 SS120780	COR0001 SS122160	COR0001 SS140140	COR0001 SS140900	COR0001 SS142060	COR0001 SS142280	COR0001 SS180420	COR0002 SS060180
1,1-DICHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,2-DICHLOROETHANE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.019 J	0.025 U	0.025 U	0.09	0.025 U	0.025 U	0.025 U
1,4-DICHLOROBENZENE	**7.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4,5-TRICHLOROPHENOL	**400**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRICHLOROPHENOL	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-D	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2,4-DINITROTOLUENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-BUTANONE	**200**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.027 J	0.1 U	0.1 U	0.1 U	0.1 U
2-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.014 J	0.05 U	0.05 U	0.068	0.05 U	0.05 U	0.05 U
3+4-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.14	0.05 U	0.012 J	0.73	0.054	0.05 U	0.05 U
ALPHA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
ARSENIC	**5**	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.013 B	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U
BARIUM	**100**	0.81	1	1.2	1.3	1.3	4.7	0.94	1.5	19	1.6	0.9	0.82
BENZENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.0088 J	0.025 U	0.025 U	0.025 U	0.007 J	0.025 U	0.025 U
CADMIUM	**1**	0.033	0.05	0.0007 U	0.0007 U	0.0007 U	0.0007 U	0.0025 B	0.0007 U	0.0007 U	0.0017 B	0.028	0.17
CARBON TETRACHLORIDE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLORDANE	**0.03**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
CHLOROBENZENE	**100**	0.025 U	0.025 U	0.025 U	0.017 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLOROFORM	**6**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHROMIUM	**5**	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0048 B	0.0018 U	0.0023 B
COPPER	**N/A**	0.033 B	0.17	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.073	0.11
ENDRIN	**0.02**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
GAMMA-BHC (LINDANE)	**0.4**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
GAMMA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR EPOXIDE	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEXACHLOROBENZENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROBUTADIENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROETHANE	**3**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LEAD	**5**	0.0098 B	0.035	0.24	0.32	0.18	0.0075 B	0.012 B	0.75	0.038	0.0068 B	0.083	0.14
MERCURY	**0.2**	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METHOXYCHLOR	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
NITROBENZENE	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
PENTACHLOROPHENOL	**100**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
PYRIDINE	**5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
SELENIUM	**1**	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
SILVER	**5**	0.0021 U	0.0021 U	0.0021 U	0.0023 B	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
SILVEX	**1**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TETRACHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
TOXAPHENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TRICHLOROETHENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
VINYL CHLORIDE	**0.2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ZINC	**N/A**	1.3	1.1	5.1	1.6	1.8	2.4	1.3	1.3	1.8	1.4	1.2	7.6

U = Not Detected above stated detection limit
J = Estimated value
B = Detected at equal to or greater than the Instrument Detection Limit, but less than the Practical Quantitation Limit

Table 4-4: TCLP Results Compared to Regulatory Limits (sheet 2 of 6)
(all results are in mg/L)

ANALYTE / SAMPLE ID	Regulatory Limit (mg/L)	COR0002 SS120360	COR0002 SS481800	COR0003 SS122340	COR0003 SS122460	COR0003 SS122580	ARA1001S S060180	ARA1001S S061140	ARA1001S S081200	ARA1001S S140140	ARA1001S S140280	ARA1001S S141100	ARA1001S S162300
1,1-DICHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,2-DICHLOROETHANE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,4-DICHLOROBENZENE	**7.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4,5-TRICHLOROPHENOL	**400**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRICHLOROPHENOL	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-D	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2,4-DINITROTOLUENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-BUTANONE	**200**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
3+4-METHYLPHENOL	**200**	0.05 U	0.05 U	0.037 J	0.15	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0096 J
ALPHA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
ARSENIC	**5**	0.0098 U	0.0098 U	0.027 B	0.012 B	0.056	0.023 B	0.015 B	0.0098 U	0.018 B	0.0098 B	0.011 B	0.011 B
BARIUM	**100**	1.1	1.2	1.2	1.7	2.1	1.6	0.79 U	0.85 U	1.4	1.5	0.84 U	1.2
BENZENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CADMIUM	**1**	0.16	0.019	0.0007 U	0.011	0.0007 U	0.0007 U	0.042	0.0077 B	0.0007 U	0.0007 U	0.27	0.0007 U
CARBON TETRACHLORIDE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLORDANE	**0.03**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
CHLOROBENZENE	**100**	0.025 U	0.025 U	0.025 U	0.008 J	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLOROFORM	**6**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHROMIUM	**5**	0.0018 U	0.0025 B	0.0031 B	0.0078 B	0.003 B	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U
COPPER	**N/A**	0.026 B	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.036 B	0.0017 U
ENDRIN	**0.02**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
GAMMA-BHC (LINDANE)	**0.4**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
GAMMA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR EPOXIDE	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEXACHLOROBENZENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROBUTADIENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROETHANE	**3**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LEAD	**5**	0.24	0.21	0.0062 U	0.16	0.0062 U	0.017	0.051	0.0062 U	0.0062 U	0.014 B	0.22	0.11
MERCURY	**0.2**	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METHOXYCHLOR	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
NITROBENZENE	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
PENTACHLOROPHENOL	**100**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
PYRIDINE	**5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
SELENIUM	**1**	0.011 U	0.011 U	0.011 B	0.011 U	0.011 U	0.028	0.011 U	0.011 U	0.011 U	0.011 U	0.025 B	0.011 U
SILVER	**5**	0.0048 U	0.0026 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
SILVEX	**1**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TETRACHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
TOXAPHENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TRICHLOROETHENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
VINYL CHLORIDE	**0.2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ZINC	**N/A**	13	11	0.41	3.5	0.51	1.2	2.8	0.44 U	0.14 U	0.86	21	4

U = Not Detected above stated detection limit
J = Estimated value
B = Detected at equal to or greater than the Instrument Detection Limit, but less than the Practical Quantitation Limit

Table 4-4: TCLP Results Compared to Regulatory Limits (sheet 3 of 6)
(all results are in mg/L)

ANALYTE / SAMPLE ID	Regulatory Limit (mg/L)	ARA1002S S060080	ARA1002S S060180	ARA1002S S121320	ARA1002S S121980	ARA1002S S122640	ARA1003S S060120	ARA1003S S120240	ARA1003S S241920	ARA1004S S060080	ARA1004S S060140	ARA1004S S061500	ARA1004S S120720
1,1-DICHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,2-DICHLOROETHANE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,4-DICHLOROBENZENE	**7.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4,5-TRICHLOROPHENOL	**400**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRICHLOROPHENOL	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-D	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2,4-DINITROTOLUENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-BUTANONE	**200**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
3+4-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.025 J	0.05 U	0.05 U	0.05 U	0.011 J	0.05 U	0.05 U	0.05 U	0.05 U
ALPHA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
ARSENIC	**5**	0.0098 U	0.0098 U	0.0098 U	0.016 B	0.018 B	0.012 B	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U	0.0098 U
BARIUM	**100**	0.99	0.8 U	0.96	2.5	1.1	1.5	1.1	0.9	1.1	1.1	1.1	0.98
BENZENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CADMIUM	**1**	0.081	0.046	0.0007 U	0.0007 U	0.0007 U	0.048	0.047	0.0075 B	0.037	0.038	0.0007 U	0.051
CARBON TETRACHLORIDE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLORDANE	**0.03**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
CHLOROBENZENE	**100**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.0037 J	0.025 U	0.025 U	0.025 U	0.025 U
CHLOROFORM	**6**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHROMIUM	**5**	0.0018 U	0.0018 U	0.0018 U	0.0062 B	0.0032 B	0.0048 U	0.0018 U	0.0018 U	0.0032 B	0.0018 U	0.0019 B	0.0022 B
COPPER	**N/A**	0.055	0.013 B	0.0017 U	0.0017 U	0.0017 U	0.026 B	0.035 B	0.0017 U	0.071	0.17	0.0017 U	0.0098 B
ENDRIN	**0.02**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
GAMMA-BHC (LINDANE)	**0.4**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
GAMMA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR EPOXIDE	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEXACHLOROBENZENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROBUTADIENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROETHANE	**3**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LEAD	**5**	0.072	0.012 B	0.12	0.051	0.0062 U	0.18	0.1	0.096	0.041	0.38	0.0062 U	0.3
MERCURY	**0.2**	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METHOXYCHLOR	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
NITROBENZENE	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
PENTACHLOROPHENOL	**100**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
PYRIDINE	**5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
SELENIUM	**1**	0.011 U	0.011 U	0.011 U	0.014 B	0.011 U	0.03	0.041	0.011 B	0.011 U	0.014 B	0.011 U	0.011 U
SILVER	**5**	0.0028 U	0.0025 U	0.0021 U	0.0021 U	0.0048 U	0.0021 U	0.0021 U	0.0021 U	0.0048 U	0.0021 U	0.0023 U	0.0021 U
SILVEX	**1**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TETRACHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
TOXAPHENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TRICHLOROETHENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
VINYL CHLORIDE	**0.2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ZINC	**N/A**	0.99	0.47	1.2	1.9	0.66	2.8	2.1	3.1	0.18 U	0.82	0.27 U	4.5

U = Not Detected above stated detection limit
J = Estimated value
B = Detected at equal to or greater than the Instrument Detection Limit, but less than the Practical Quantitation Limit

Table 4-4: TCLP Results Compared to Regulatory Limits (sheet 4 of 6)
(all results are in mg/L)

ANALYTE / SAMPLE ID	Regulatory Limit (mg/L)	ARA1004S S121380	ARA1004S S121740	ARA2001S S060120	ARA2001S S060180	ARA2001S S240360	ARA2002S S061860	ARA2002S S080080	ARA2002S S081620	ARA2002S S180300	ARA2002S S242280	ARC1001S S060320	ARC1001S S120960
1,1-DICHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,2-DICHLOROETHANE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,4-DICHLOROBENZENE	**7.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4,5-TRICHLOROPHENOL	**400**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRICHLOROPHENOL	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-D	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2,4-DINITROTOLUENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-BUTANONE	**200**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-METHYLPHENOL	**200**	0.05 U	0.0092 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
3+4-METHYLPHENOL	**200**	0.05 U	0.029 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALPHA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
ARSENIC	**5**	0.0098 U	0.0098 U	0.016 B	0.0098 U	0.0098 U	0.02 B	0.0098 U	0.02 B	0.0098 U	0.019 B	0.0098 U	0.0098 U
BARIUM	**100**	1.2	0.53 U	1.4	0.73	0.81	0.87	1.4	1.5	1.4	1	0.72	0.43
BENZENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CADMIUM	**1**	0.0084 B	0.0007 U	0.091	0.22	0.15	0.0018 B	0.02	0.0016 B	0.0042 B	0.0012 B	0.011	0.0007 U
CARBON TETRACHLORIDE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLORDANE	**0.03**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
CHLOROBENZENE	**100**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.0036 J	0.025 U	0.025 U	0.025 U
CHLOROFORM	**6**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHROMIUM	**5**	0.0018 U	0.0018 U	0.0037 B	0.0018 U	0.0018 U	0.002 U	0.0018 U	0.0018 U	0.0018 U	0.0038 U	0.0018 U	0.0035 U
COPPER	**N/A**	0.0017 U	0.0017 U	0.18	0.02 B	0.0017 U	0.0017 U	0.064	0.0017 U	0.012 B	0.0028 B	0.0087 B	0.0017 U
ENDRIN	**0.02**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
GAMMA-BHC (LINDANE)	**0.4**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
GAMMA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR EPOXIDE	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEXACHLOROBENZENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROBUTADIENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROETHANE	**3**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LEAD	**5**	0.38	0.0062 U	0.22	0.5	0.77	0.0062 U	0.02	0.0062 U	0.018	0.0062 U	0.02	0.0062 U
MERCURY	**0.2**	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METHOXYCHLOR	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
NITROBENZENE	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
PENTACHLOROPHENOL	**100**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
PYRIDINE	**5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
SELENIUM	**1**	0.011 U	0.011 U	0.035	0.019 B	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.016 B	0.011 U	0.011 B
SILVER	**5**	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
SILVEX	**1**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TETRACHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
TOXAPHENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TRICHLOROETHENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
VINYL CHLORIDE	**0.2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ZINC	**N/A**	1.8	0.16 U	0.52	19	23	0.055 U	0.25	0.73	2.1	0.27	0.64	1.2

U = Not Detected above stated detection limit
J = Estimated value
B = Detected at equal to or greater than the Instrument Detection Limit, but less than the Practical Quantitation Limit

Table 4-4: TCLP Results Compared to Regulatory Limits (sheet 5 of 6)
(all results are in mg/L)

ANALYTE / SAMPLE ID	Regulatory Limit (mg/L)	ARC1002S S121320	ARC1003S S060960	ARC1003S S061020	ARC1003S S120800	ARC1003S S121320	ARC1004S S120120	ARC1004S S242040	ARC1004S S242400	ARC1008S S060360	ARC1008S S060420	ARC1008S S120320	ARC1008S S120540
1,1-DICHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,2-DICHLOROETHANE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,4-DICHLOROBENZENE	**7.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4,5-TRICHLOROPHENOL	**400**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRICHLOROPHENOL	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-D	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2,4-DINITROTOLUENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-BUTANONE	**200**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
3+4-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.29 J	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALPHA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
ARSENIC	**5**	0.023 B	0.017 B	0.0098 U	0.0098 U	0.0098 U	0.013 B	0.0098 U	0.023 B	0.0098 U	0.0098 U	0.0098 U	0.0098 U
BARIUM	**100**	0.68	1	1.2	0.55	0.8	1	0.72	0.83	0.83	0.85	1.3	0.81
BENZENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CADMIUM	**1**	0.001 B	0.1	0.016	0.0013 B	0.017	0.0064 B	0.0044 B	0.0049 B	0.0091 B	0.1	0.021	0.13
CARBON TETRACHLORIDE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLORDANE	**0.03**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
CHLOROBENZENE	**100**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLOROFORM	**6**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHROMIUM	**5**	0.03 B	0.012 B	0.0018 U	0.0051 B	0.024 B	0.0026 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U
COPPER	**N/A**	0.0017 U	0.15	0.0027 B	0.0052 B	0.0017 U	0.081	0.0017 U	0.0017 U	0.0017 U	0.22	0.0017 U	0.021 B
ENDRIN	**0.02**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
GAMMA-BHC (LINDANE)	**0.4**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
GAMMA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR EPOXIDE	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEXACHLOROBENZENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROBUTADIENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROETHANE	**3**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LEAD	**5**	0.26	0.12	0.0062 U	0.008 B	0.15	0.019	0.8	1.2	0.0062 U	0.089	0.12	0.05
MERCURY	**0.2**	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METHOXYCHLOR	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
NITROBENZENE	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
PENTACHLOROPHENOL	**100**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
PYRIDINE	**5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
SELENIUM	**1**	0.011 U	0.017 B	0.011 U	0.015 B	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
SILVER	**5**	0.0021 U	0.0021 U	0.0021 U	0.0023 B	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U	0.0021 U
SILVEX	**1**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TETRACHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
TOXAPHENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TRICHLOROETHENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
VINYL CHLORIDE	**0.2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ZINC	**N/A**	11	1.5	0.33	0.42	11	0.42	4	2.8	2.7	19	3.5	16

U = Not Detected above stated detection limit
J = Estimated value
B = Detected at equal to or greater than the Instrument Detection Limit, but less than the Practical Quantitation Limit

Table 4-4: TCLP Results Compared to Regulatory Limits (sheet 6 of 6)
(all results are in mg/L)

ANALYTE / SAMPLE ID	Regulatory Limit (mg/L)	ARC2009S S063960	ARC2009S S123900	ARC2009S S124440	ARC2013S S066360	ARC2013S S126240	ARC2013S S246600
1,1-DICHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,2-DICHLOROETHANE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
1,4-DICHLOROBENZENE	**7.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4,5-TRICHLOROPHENOL	**400**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
2,4,6-TRICHLOROPHENOL	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2,4-D	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
2,4-DINITROTOLUENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-BUTANONE	**200**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
2-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
3+4-METHYLPHENOL	**200**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ALPHA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
ARSENIC	**5**	0.018 B	0.015 B	0.0098 U	0.069	0.011 B	0.0098 U
BARIUM	**100**	1.6 U	1.6	0.62	0.95	1.2	1.1
BENZENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CADMIUM	**1**	0.016	0.013	0.03	0.022	0.03	0.0018 B
CARBON TETRACHLORIDE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLORDANE	**0.03**	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
CHLOROBENZENE	**100**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHLOROFORM	**6**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
CHROMIUM	**5**	0.0018 U	0.0018 U	0.0018 U	0.0046 B	0.003 B	0.0018 U
COPPER	**N/A**	0.011 B	0.0048 B	0.0017 U	0.0017 U	0.0017 U	0.0017 U
ENDRIN	**0.02**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
GAMMA-BHC (LINDANE)	**0.4**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
GAMMA-CHLORDANE	**0.03**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEPTACHLOR EPOXIDE	**0.008**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
HEXACHLOROBENZENE	**0.13**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROBUTADIENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
HEXACHLOROETHANE	**3**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LEAD	**5**	0.032	0.064	0.14	0.064	0.0631	0.049
MERCURY	**0.2**	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U	0.0001 U
METHOXYCHLOR	**10**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
NITROBENZENE	**2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
PENTACHLOROPHENOL	**100**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
PYRIDINE	**5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
SELENIUM	**1**	0.013 B	0.02 B	0.011 U	0.023 B	0.011 U	0.018 B
SILVER	**5**	0.0042 B	0.0027 B	0.0021 U	0.0043 U	0.0022 U	0.0021 U
SILVEX	**1**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
TETRACHLOROETHENE	**0.7**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
TOXAPHENE	**0.5**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
TRICHLOROETHENE	**0.5**	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
VINYL CHLORIDE	**0.2**	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
ZINC	**N/A**	2.3	4.8	14	1.8	1.4	2.8

U = Not Detected above stated detection limit
J = Estimated value
B = Detected at equal to or greater than the Instrument Detection Limit, but less than the Practical Quantitation Limit

Table 4-5: Other Waste Disposal Characteristic Data

ANALYTE / SAMPLE ID	ARA1004 SS060080	ARA1004 SS120720	COR0001 SS060240	COR0001 SS140140	COR0001 SS180420
CYANIDE, TOTAL (mg/kg)	0.96 J	0.57 UJ	1.3 J	5.8 J	0.7 J
pH (standard pH units)	7.6 J	7.4 J	7.7 J	7.4 J	7.2 J
REACTIVE CYANIDE (mg/kg)	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ	0.1 UJ
REACTIVE SULFIDE (mg/kg)	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ

J = Estimated value

UJ = The material for analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

Table 4-6: Seaway Leachate Sampling Results (pCi/L) for Indicated Sampling Dates

	August 23, 2000		January 26, 2001		April 7, 2001		July 24, 2001	
Analytes	**Regular**	**Duplicate**	**Regular**	**Duplicate**	**Regular**	**Duplicate**	**Regular**	**Duplicate**
Gross Alpha	ND	47.03	18.89 J	17.17	20.12 J	35.42	ND	ND
Gross Beta	85.07	144.56	88.23	68.31	91.72	97.23	79.50	84.77
Actinium-228	ND	ND	ND	ND	ND	ND	ND	22.25 J
Bismuth-212	ND	ND	ND	ND	ND	ND	ND	ND
Bismuth-214	ND	ND	31.21 J	ND	ND	ND	26.40 J	30.83
Cesium-137	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt-60	NR	NR	ND	ND	ND	ND	ND	ND
Lead-212	ND	ND	ND	ND	ND	ND	ND	ND
Lead-214	ND	ND	21.74 J	17.82 J	ND	24.80 J	ND	13.17 J
Protactinium-234m	ND	ND	ND	ND	ND	ND	ND	ND
Radium-226	1.23	1.14	1.59	1.89	2.78	4.51	2.62	3.31
Radium-228	ND	1.43	1.16 J	ND	3.02	3.22 J	1.76	ND
Thallium-208	ND	30.39	ND	ND	ND	17.93 J	24.23 J	ND
Thorium-228	ND	ND	ND	ND	ND	ND	ND	ND
Thorium-230	3.00	0.56 J	ND	0.90 J	ND	0.52 J	0.56 J	0.61 J
Thorium-232	ND	ND	0.57 J	ND	ND	ND	ND	ND
Thorium-234	ND	ND	ND	ND	134.30 J	97.95 J	110.80 J	ND
Uranium-234	5.94	3.98	10.14	8.91	8.4	11.08	3.42	1.32 J
Uranium-235	ND	ND	ND	ND	ND	ND	ND	ND
Uranium-236	ND	ND	NR	NR	NR	NR	NR	NR
Uranium-238	5.38	3.81	10.61	9.80	9.63	11.59	1.83	0.99 J

J = Estimated Value
ND = Not Detected
NR = Not Requested/Not Reported

EXHIBIT A

POSITION PAPER – SEAWAY AREAS A, B AND C SAMPLE COLLECTION DECISION RULES

1.0 INTRODUCTION

The purpose of this position paper is to set guidelines by which samples will be collected from boreholes in Seaway Area A, B, and C. These guidelines are not absolute or comprehensive, as special conditions encountered at the site may suggest that following the guidelines verbatim would be imprudent. Rather, the intent is to establish consensus on a set of general decision rules that cover project goals and anticipated field conditions. Decision rules are established using the description of field activities found in the 2001 Field Sampling Plan for Areas A, B, and C, Sections 1 and 2, and per discussions with U.S. Army Corps of Engineers (USACE) management.

Soil sampling efforts are intended to satisfy at least four goals. First, a reference borehole will be used to establish baseline Toxicity Characteristic Leaching Procedure (TCLP) characteristics, gamma logging results, and landfill soil concentrations against which all subsequent data will be compared. Second, two boreholes will be drilled and sampled in Area A to develop a correlation between radiological soil concentrations and gamma logging results. The intent of the correlation is to limit the need for extensive soil sampling and analytical cost while completing the boundary delineation later in the field effort. Data from the reference boring will also be used in the correlation study. Third, three biased boring and two surface sample locations will be identified to supplement correlation data and to characterize leachability at the site. Fourth and last, as many of nine biased borings will be drilled and sampled in Areas B and C in order to locate and characterize covered residue piles.

The decision rules established by this paper are independent of analytical methods, sample preparation procedures, or other parameters/procedures that are not directly related to on-site sample/no-sample field decisions.

2.0 PROJECT MANDATES

The following is a short list of related activities that are not subject to interpretation or variant actions without approval from USACE management.

- at a minimum, down-hole gamma readings will be recorded from every 1-foot interval and from each interval at which a soil sample is collected;
- a radiological sample will be collected from each TCLP sample interval;
- no more than three TCLP and three radiological samples will be collected from the reference boring;
- no more than 25 radiological and 15 TCLP samples will be collected from the 5 borings in Area A;
- no more that two radiological and two TCLP samples will be collected from each of the two “surface soil” sampling locations in Area A (four TCLP and four radiological samples);
- four of the Area A borings will be located where historical information shows that Manhattan Engineer District (MED)-related residues are covered with at least 1 foot of backfill material;
- the remaining Area A boring will be located where historical information shows that fly-ash-like materials are covered with at least 1 foot of backfill material;
- No more than 21 radiological, 21 TCLP, and 21 TCLP-modified samples will be collected from Areas B and C, to be split between 2 biased boreholes in Area B and 5 of the 7 biased boreholes in Area C;

- the nine biased soil boring locations in Areas B and C will be located where topographical maps indicate the presence of small (potential residue) piles; and

- if the assigned number of samples is not collected from one area for any reason, the "extra" samples may be used in other areas as long as the site total of 53 radiological, 43 TCLP, and 21 TCLP-modified samples is not exceeded.

3.0 DECISION RULES FOR REFERENCE BORING

The following is a list of general decision rules for the reference boring. These rules are established to ensure that the collected data represent baseline/unimpacted conditions at the Seaway site. That is, it will be assumed that concentrations of any solid medium (e.g., native soil, sediment, fill material, residues, etc.) are of no concern if at or below levels measured at the reference boring. Analytical data from the reference boring will include gamma logging results, radioanalytical results, and TCLP results.

- Samples will not be collected if the gamma logging results suggest the presence of elevated radioactivity (i.e., a new reference location will be identified after briefing USACE management).

- Samples will not be collected if the visual inspection or core scans suggest the presence of chemical contamination (i.e., a new reference location will be identified after briefing USACE management).

- Samples will be collected from intervals that represent the range of gamma radiation levels as measured during the logging effort.

- Sample intervals should be non-contiguous.

Reference boring data should be compiled, summarized, and distributed to the appropriate field team leaders to assist with subsequent sampling efforts.

4.0 DECISION RULES FOR CORRELATION BORINGS – AREA A

The correlation borings are intended to provide characteristic data from MED-related and fly-ash-like residues that will be used in subsequent borings. Correlation data will include gamma logging results, radioanalytical results, and TCLP results. The correlation boring profile will include a layer of clean overburden and a lens of radiologically contaminated material followed by potentially unimpacted material. The following is a list of general decision rules for the two correlation borings in Area A:

- three TCLP samples will be collected from each correlation boring including one at the upper lens interface, one within the lens, and one at the lower lens interface;

- interface samples will include 1-to-3 parts radiologically contaminated residues and 3-to-5 parts overburden or unimpacted material (for a total of 6 parts);

- three radiological samples will be collected from each correlation boring as described above for the TCLP samples, plus as many as two additional samples may be collected from within the radiologically contaminated lens (for a total of 5 samples);

- radiological samples will be collected from intervals that represent the range of gamma radiation levels as measured during the logging effort; and

- sample intervals should be non-contiguous.

5.0 DECISION RULES FOR BIASED BORINGS – AREA A

Area A biased borings are intended to provide additional TCLP data for the leachability study. Radiological data will also be collected to supplement the correlation data. The following is a list of general decision rules for the three biased borings in Area A:

- TCLP samples will be collected as stated above under correlation borings;
- additional radiological samples may be collected in biased borings while limiting the total number for Area A samples to 29;
- radiological samples will be collected from intervals that represent the range of gamma radiation levels as measured during the logging effort; and
- sample intervals should be non-contiguous.

6.0 DECISION RULES FOR SURFACE SAMPLES – AREA A

Surface samples are intended to help characterize the impacts of backfill on radionuclide leachability. Analytical data from Area A surface samples will include radioanalytical results and TCLP results (no gamma logging for shallow samples). The following is a list of general decision rules for the two surface sample locations in Area A:

- surface sample locations will be selected from areas with a thin layer (e.g., a few feet) of MED-related residues over potentially unimpacted material;
- a radiological and TCLP sample will be collected from the surface-exposed, MED-related residues;
- a radiological and TCLP sample will be collected at the interface of the underlying potentially unimpacted material; and
- interface sample will include 1-to-3 parts radiologically contaminated residues and 3-to-5 parts overburden or potentially un-impacted material (for a total of 6 parts).

7.0 DECISION RULES FOR BIASED BORINGS – AREAS B AND C

Biased borings in Areas B and C are intended to locate covered residue piles that were not identified during the gamma walkover survey. Analytical data from Areas B and C will include gamma logging results, radioanalytical results, TCLP results, and TCLP-modified results. The following is a list of general decision rules for the nine biased borings in Areas B and C:

- three radiological, three TCLP, and three TCLP-modified samples are planned for each of the two biased boring in Area B;
- three radiological, three TCLP, and three TCLP-modified samples are planned for each of five biased borings in Area C (seven borings are planned) – the actual number of samples per boring may vary;
- one sample interval will be located near the bottom of the boring so as to bound potential contamination;

- other sample intervals, if any, will be located where gamma logging data suggest the highest relative potential for contamination; and

- sample intervals should be non-contiguous.

8.0 CONCLUSIONS

The general decision rules provided above are intended to help steer the sample location selection process based on the description of field activities in the Field Sampling Plan and per discussions with USACE management. General rules are subject to change given that a sound technical basis is provided. Concurrence by USACE management is required when modifications will adversely impact project cost and schedule.

EXHIBIT B

DOWN-HOLE LOG SUMMARIES

EXHIBIT B

DOWN-HOLE LOG SUMMARIES

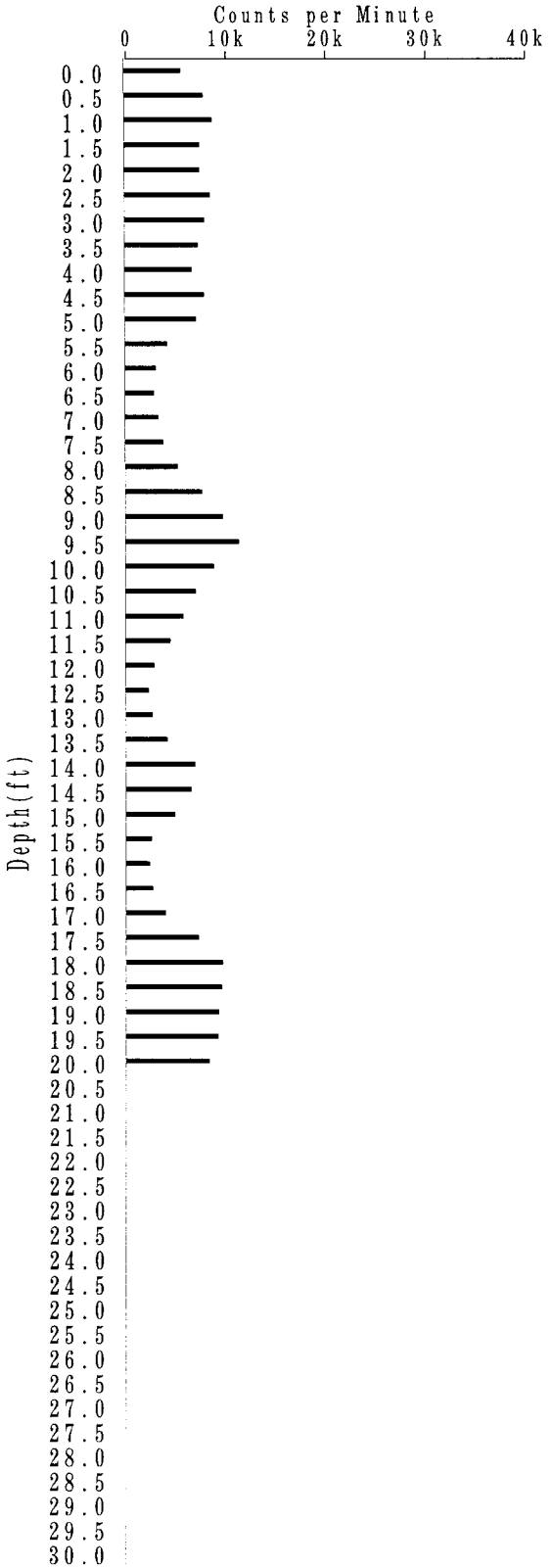
Exhibit B contains a summary of down-hole gamma measurement, geological logs, and on-site analytical data from the 2001 Seaway investigation. Gamma measurement were collected using a shielded 2-inch by 2-inch sodium iodide detector lowered down a PVC-lined borehole. Gamma measurements were collected at 6-inch intervals by positioning the detector to the designated depth below ground surface then integrating radiation "counts" over a one minute period. Geological logs are summarized to show, if possible, the relationship between quantitative measurements and soil/medium type. Analytical results for radium-226 (Ra-226), thorium-230 (Th-230), and uranium-238 (U-238) are also presented in pCi/g units as measured on-site by a Broad-Energy Germanium (BEGe) detector. Additional features of these summary logs are listed below:

- Down-hole gamma count per minute (cpm) results are truncated to 40,000 (40k) cpm given that results > 40k cpm are clearly elevated above background and in order to provide enough space to present the geological descriptions plus on-site analytical results.
- Geological descriptions were summarized from the same field notes used to generate Exhibit C. "No recovery" indicates that the interval in question was not successfully extracted thus precluding geological logging and sample collection.
- Analytical data reported in pCi/g units are presented with data qualifiers to indicate the level of confidence in results. Qualifiers are "=" for detected values, "U" for undetected, "J" for estimated, or "UJ" for undetected and estimated.
- Gamma measurements, geological descriptions, and on-site analytical data are presented by corresponding depth in order to allow for side-by-side comparison of all relevant on-site data as was available to the field team during the investigation.
- Data summaries are presented by borehole name. The borehole name format is AAABBB#### where AAA is always "SEA" for Seaway; BBB refers to the areas COR for correlation, ARA for Area A, ARB for Area B, or ARC for Area C; and #### refers to the assigned borehole number.

Raw down-hole gamma data are presented with additional information in Exhibit D and raw on-site analytical data are presented in Exhibit E.

Borehole Number: SEAARA1001

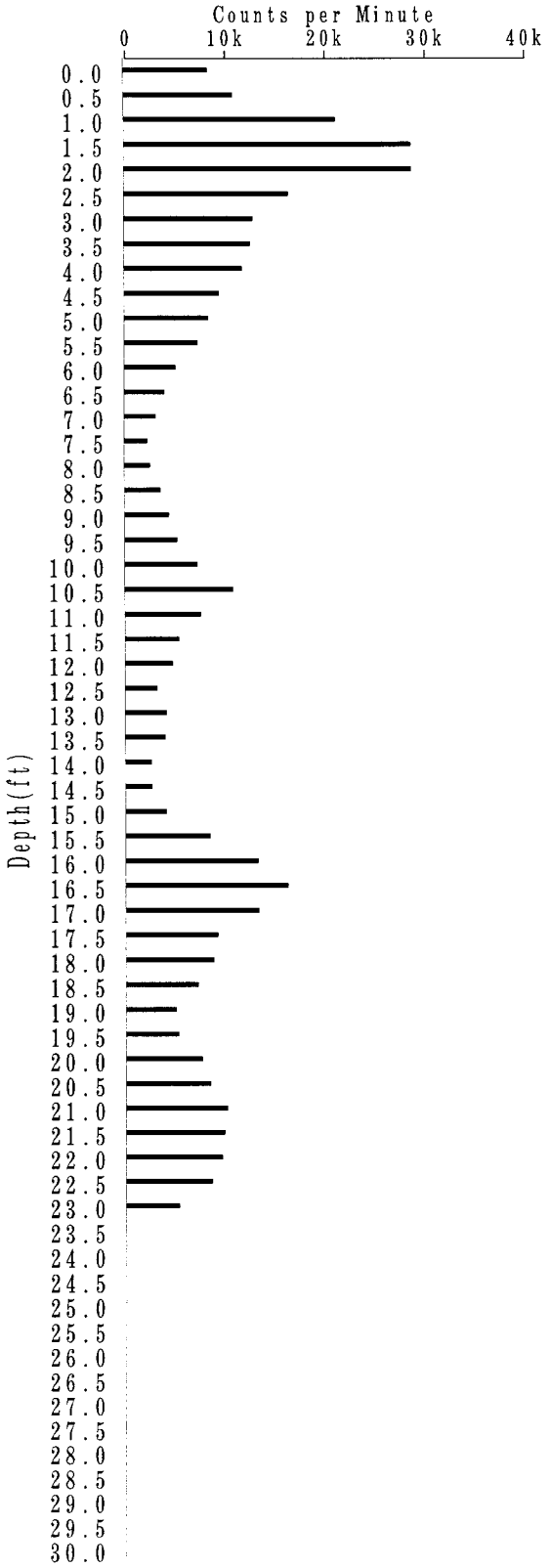
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay	0.688 =	-9.31 UJ	1.07 U
1.5	Trash	0.802 =	1.15 U	1.64 J
2.0	Trash			
2.5	No recovery	0.804 =	6.26 U	1.32 J
3.0	No recovery			
3.5	No recovery			
4.0	Fine sand/silt			
4.5	Fine sand/silt			
5.0	Fine sand/silt			
5.5	Fine sand/silt			
6.0	Fine sand/silt			
6.5	Fine sand/silt			
7.0	Silty clay			
7.5	Silty clay			
8.0	Silty clay			
8.5	Silty clay			
9.0	Silty clay	1.02 =	10.4 U	2.11 J
9.5	Trash	0.584 =	4.71 U	-0.418 UJ
10.0	Trash	0.673 =	20.7 U	0.721 U
10.5	No recovery			
11.0	No recovery			
11.5	No recovery			
12.0	No recovery			
12.5	No recovery			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	No recovery			
16.0	No recovery			
16.5	No recovery			
17.0	No recovery			
17.5	No recovery			
18.0	Silty clay			
18.5	Trash			
19.0	Trash	0.804 =	7.96 U	1.39 J
19.5	Trash			
20.0	Trash			

Borehole Number: SEAARA1002

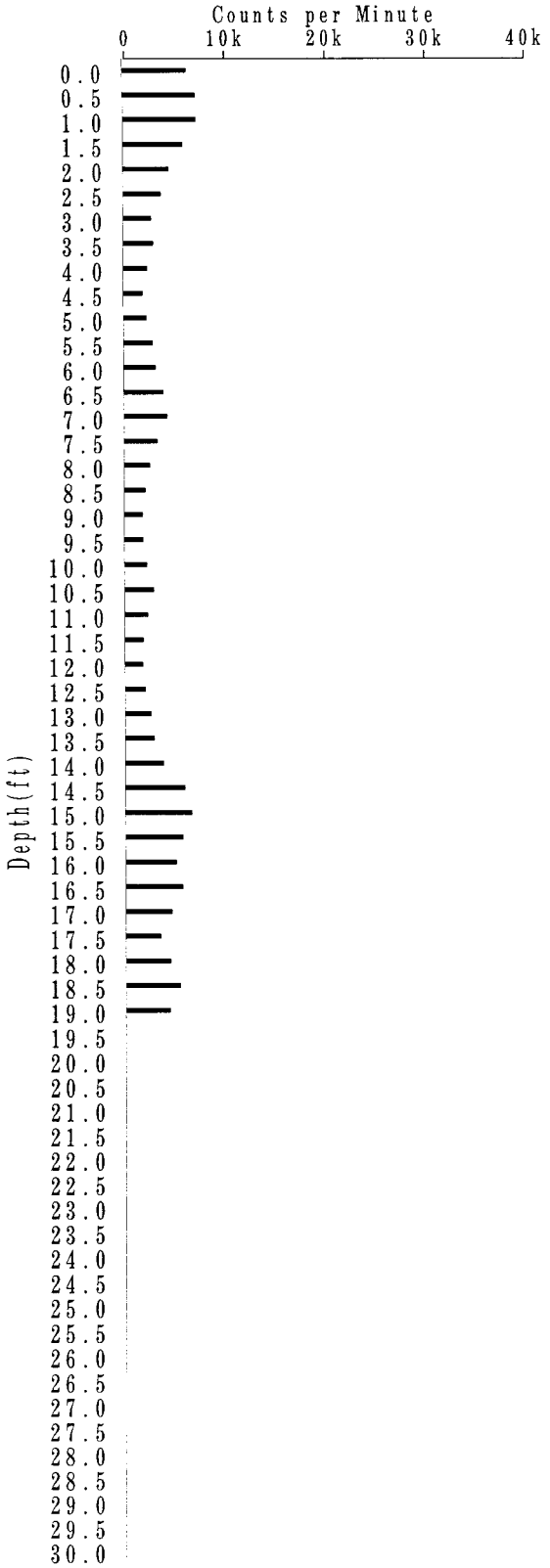
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Silty loam			
0.5	Silty loam	2.78 =	56.5 =	5.03 =
1.0	Silty loam			
1.5	Rubble	13.4 =	196 =	12.5 =
2.0	Trash			
2.5	Trash			
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	Trash			
8.5	Trash			
9.0	Trash			
9.5	Trash			
10.0	Trash			
10.5	Trash/fine silty sand			
11.0	Trash/fine silty sand	0.826 =	6.57 U	2.23 =
11.5	Trash/fine silty sand			
12.0	Trash/fine silty sand			
12.5	Trash/fine silty sand			
13.0	Trash/fine silty sand			
13.5	Trash/fine silty sand			
14.0	Trash/fine silty sand			
14.5	Trash			
15.0	Trash			
15.5	Silt, fine			
16.0	Silt, fine			
16.5	Silt, fine	1.07 =	10.8 =	2.04 =
17.0	Silt, fine			
17.5	Silt, fine			
18.0	Silt, fine			
18.5	Silt, fine			
19.0	Silt, fine			
19.5	Trash			
20.0	Trash			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash	1.5 =	-0.128 UJ	1.82 =
22.5	Trash			
23.0	Trash			

Borehole Number: SEAARA1003

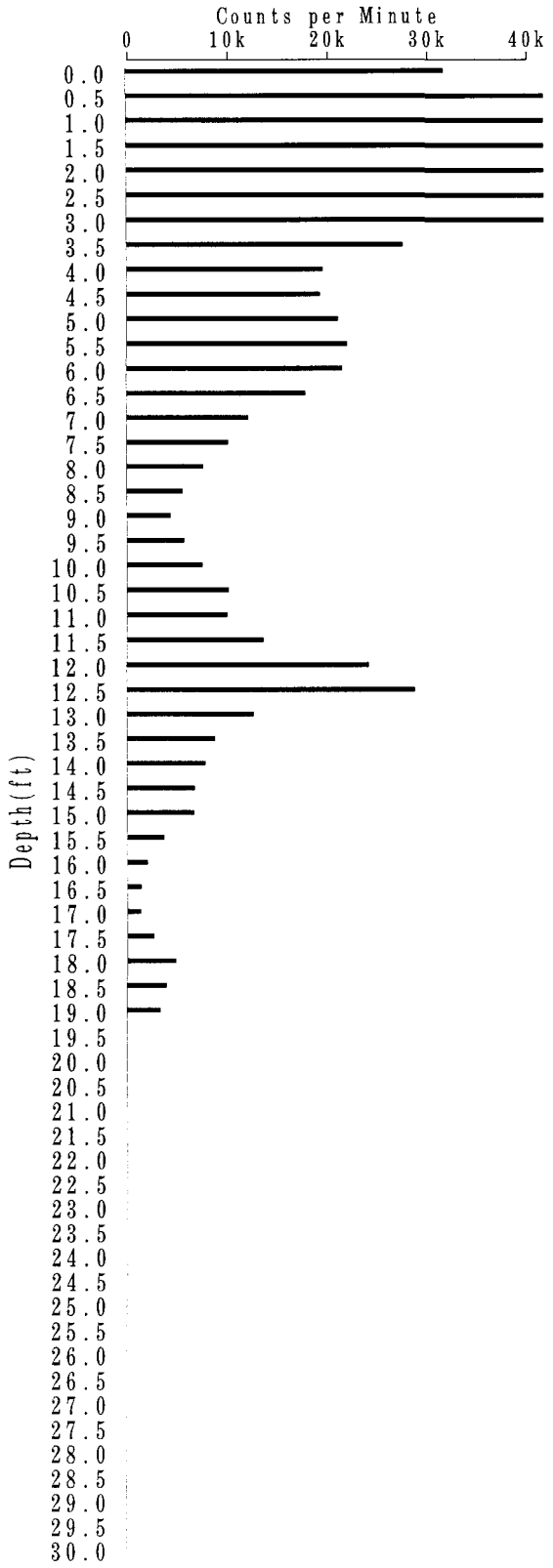
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay	0.888 =	-3.67 UJ	1.51 =
1.5	Trash			
2.0	Trash	0.769 =	17.2 U	1.9 =
2.5	No recovery			
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	Trash			
8.5	Trash			
9.0	Trash			
9.5	Trash			
10.0	Trash			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash/coarse sand			
13.5	Trash/coarse sand			
14.0	Trash/coarse sand			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash	0.798 =	-6 UJ	1.41 =
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Trash			

Borehole Number: SEAARA1004

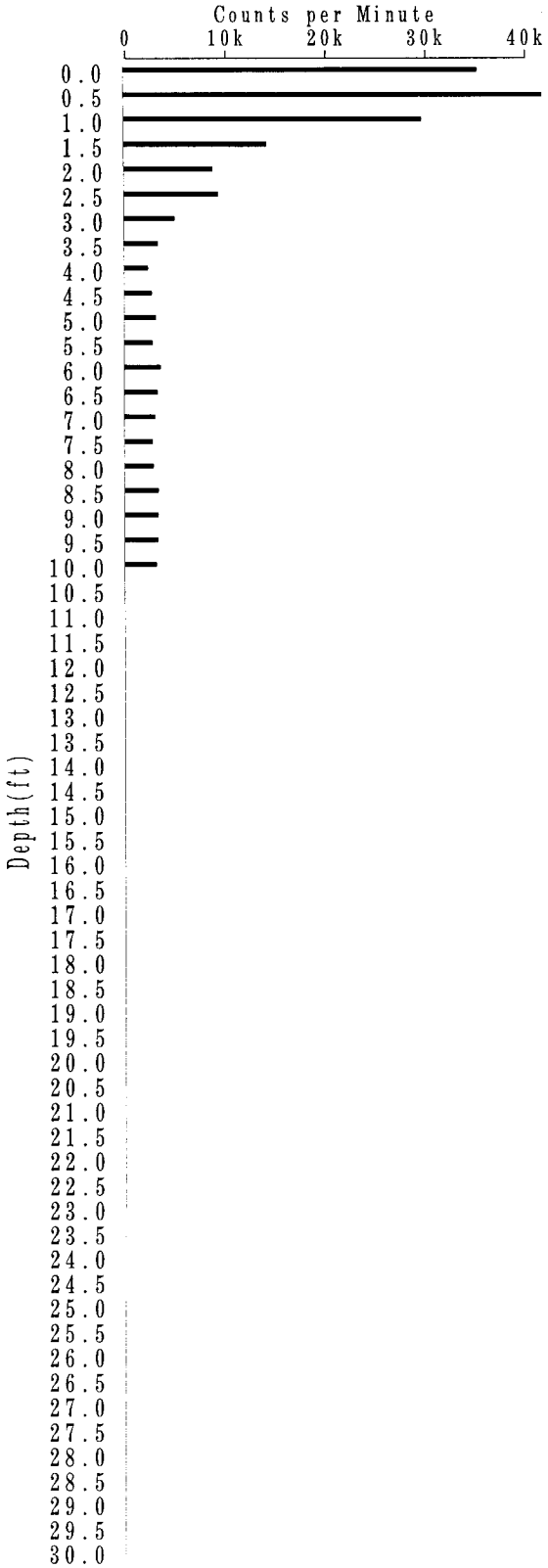
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Silty clay			
0.5	Silty clay	23.8 =	777 =	52.4 J
1.0	Silty clay	15.1 =	379 =	30.8 J
1.5	Trash			
2.0	Trash			
2.5	Trash			
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Trash			
6.0	Trash	11.3 =	369 =	26 J
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	Trash			
8.5	Trash			
9.0	Trash			
9.5	Trash			
10.0	Trash			
10.5	Trash			
11.0	Silty clay			
11.5	Silty clay	5.21 =	159 =	8.56 J
12.0	Silty clay			
12.5	Silty clay	0.814 =	16 U	1.12 U
13.0	Silty clay			
13.5	Silty clay			
14.0	Silty clay			
14.5	Trash	0.668 =	2.55 U	0.433 U
15.0	Trash			
15.5	No recovery			
16.0	No recovery			
16.5	No recovery			
17.0	No recovery			
17.5	No recovery			
18.0	No recovery			
18.5	No recovery			
19.0	No recovery			

Borehole Number: SEAARA2001

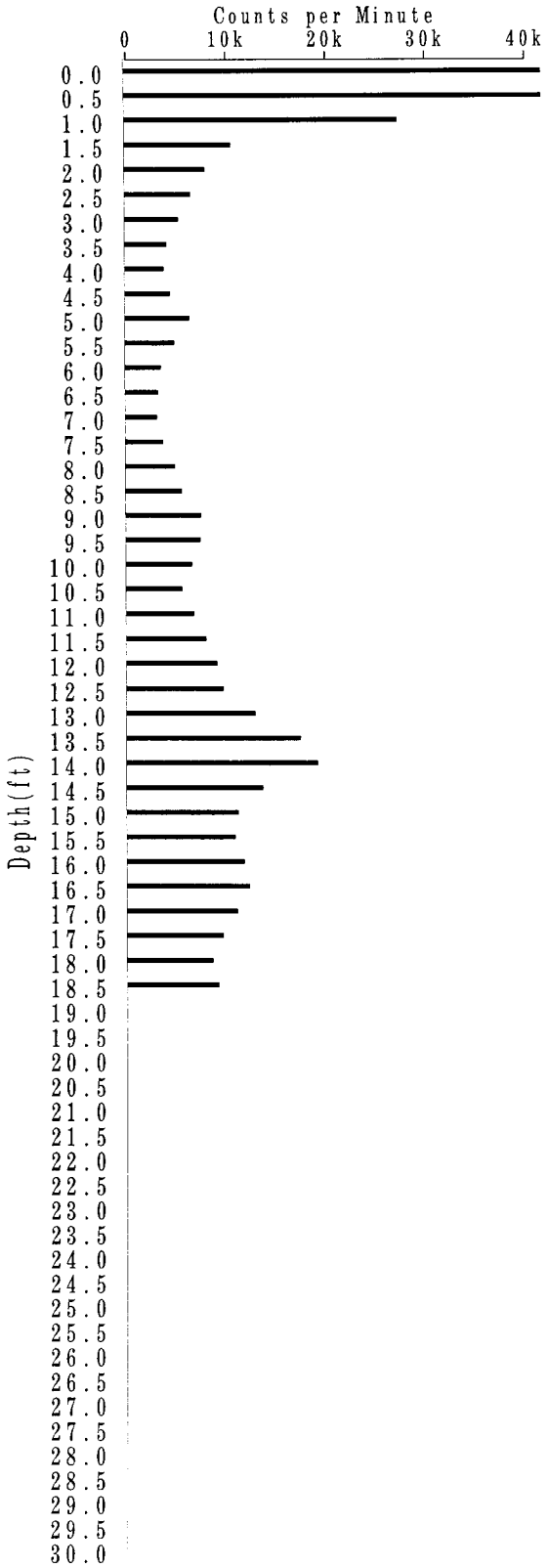
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay	31.7 =	673 =	33.7 =
1.5	Silt, fine	1.42 =	12.3 =	3.56 =
2.0	Trash			
2.5	Trash			
3.0	Trash	1.19 =	10.5 U	1.66 =
3.5	Trash			
4.0	Trash			
4.5	Trash			
5.0	Trash			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	Trash			
8.5	Trash			
9.0	Trash			
9.5	Trash			
10.0	Trash			

Borehole Number: SEAARA2002

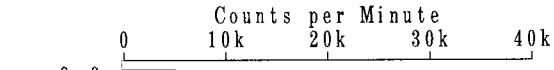
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
			pCi/g	
0.0	Silty clay			
0.5	Silty clay	20 =	492 =	27.1 =
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Silty clay	4.97 =	110 =	11.3 =
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash/coarse sand			
8.0	Trash			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	No recovery			
11.0	No recovery			
11.5	Silt, fine			
12.0	Trash			
12.5	Trash			
13.0	No recovery			
13.5	No recovery	4.19 =	12.3 U	4.43 =
14.0	No recovery			
14.5	No recovery			
15.0	No recovery			
15.5	Fine material	1.47 =	4.92 U	1.35 =
16.0	Fine material			
16.5	Fine material			
17.0	Fine material			
17.5	Fine material			
18.0	Fine material			
18.5	Fine material	1.51 =	5.68 U	1.7 =

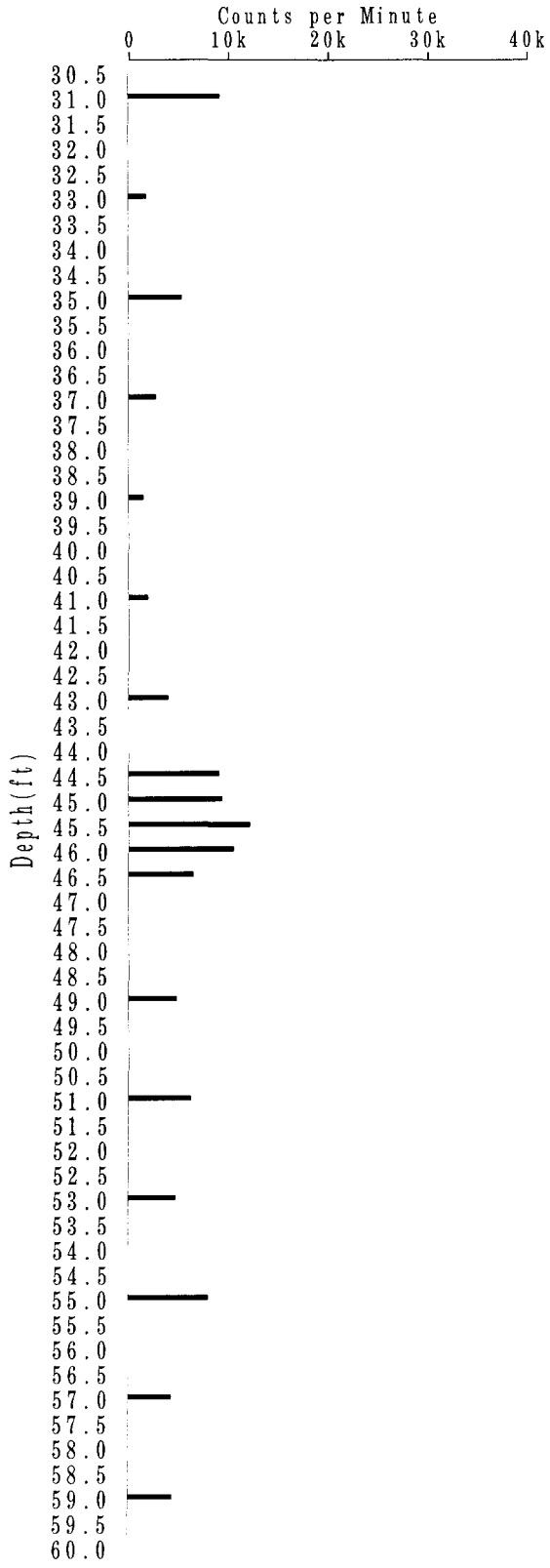
Borehole Number: SEAARB1001

Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth(ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Trash			
2.0	Trash			
2.5	Trash			
3.0	Trash			
3.5	Trash			
4.0	Trash			
4.5	Trash			
5.0	Trash			
5.5	Trash			
6.0	Silty clay/rubble			
6.5	Silty clay/rubble			
7.0	Silty clay/rubble			
7.5	Silty clay/rubble			
8.0	Silty clay/rubble			
8.5	Trash			
9.0	Trash			
9.5	No recovery			
10.0	No recovery			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Silty clay			
12.5	Silty clay			
13.0	Silty clay			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Trash			
19.5	Trash			
20.0	Trash			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Rubble			
26.0	Rubble			
26.5	Rubble			
27.0	Rubble			
27.5	No recovery			
28.0	No recovery			
28.5	No recovery			
29.0	No recovery			
29.5	No recovery			
30.0	No recovery			

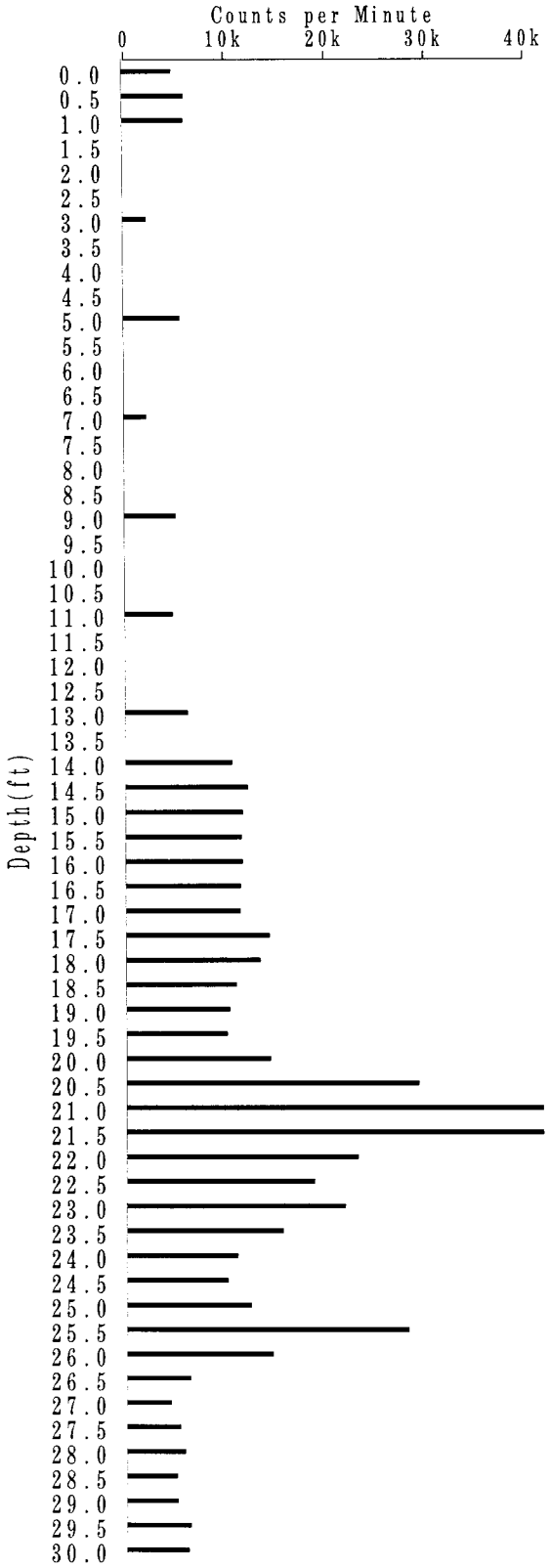
Borehole Number:SEAARB1001 (continued)
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
30.5	Silty clay mix			
31.0	Silty clay mix			
31.5	Silty clay mix			
32.0	Trash			
32.5	Trash			
33.0	Trash			
33.5	Trash			
34.0	Trash			
34.5	Trash			
35.0	Trash			
35.5	Trash with silt mix			
36.0	Trash with silt mix			
36.5	Trash with silt mix			
37.0	Trash			
37.5	Trash			
38.0	Trash			
38.5	Trash			
39.0	Trash			
39.5	No recovery			
40.0	No recovery			
40.5	Trash			
41.0	Trash			
41.5	Trash			
42.0	Trash			
42.5	Trash			
43.0	Trash			
43.5	Trash			
44.0	Trash			
44.5	Trash			
45.0	Trash			
45.5	Trash	0.642 =	5.53 U	0.594 U
46.0	Silty clay			
46.5	Silty clay			
47.0	Silty clay			
47.5	Silty clay			
48.0	Silty clay			
48.5	Trash			
49.0	Trash			
49.5	Trash			
50.0	Trash			
50.5	Trash			
51.0	Trash			
51.5	Trash			
52.0	Trash			
52.5	Trash			
53.0	Trash			
53.5	Trash			
54.0	Trash			
54.5	Trash			
55.0	Trash			
55.5	Sandy gravel fill mix			
56.0	Sandy gravel fill mix			
56.5	Sandy gravel fill mix			
57.0	Trash			
57.5	Trash			
58.0	Trash			
58.5	Trash			
59.0	Trash			
59.5				
60.0				

Borehole Number: SEAARB2001

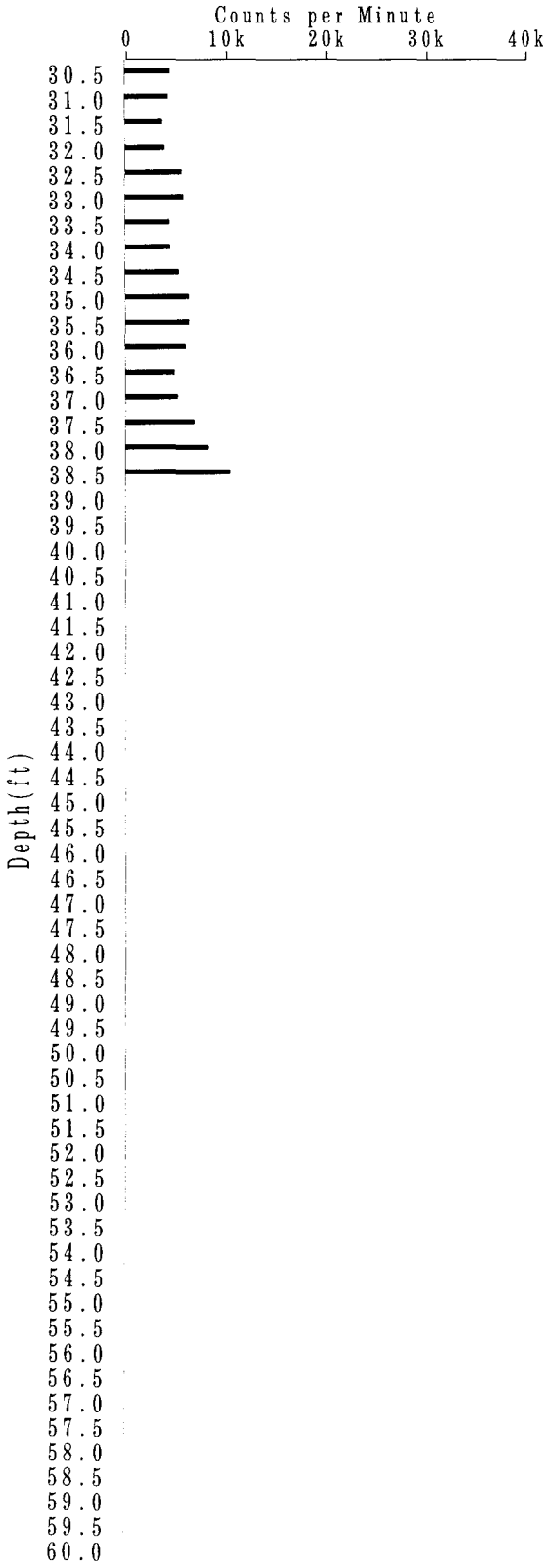
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
0.0	Trash			
0.5	Trash			
1.0	Trash			
1.5	Trash			
2.0	Trash			
2.5	Trash			
3.0	Trash			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Trash/demo debris			
11.0	Trash/demo debris			
11.5	Trash/demo debris			
12.0	Trash/demo debris			
12.5	Trash/demo debris			
13.0	Trash/demo debris			
13.5	Trash/demo debris			
14.0	Trash/demo debris			
14.5	Trash/demo debris			
15.0	Trash/demo debris			
15.5	Silty clay			
16.0	Silty clay			
16.5	Silty clay			
17.0	Silty clay			
17.5	Silty clay			
18.0	Silty clay	1.24 =	11.6 =	1.18 =
18.5	Silty clay			
19.0	Silty clay			
19.5	Silty clay			
20.0	Silty clay			
20.5	Trash			
21.0	Trash	7.43 =	87.3 =	5.24 =
21.5	Trash			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Trash	8.82 =	201 =	10.2 =
26.0	Trash			
26.5	Silty clay trash mix			
27.0	Silty clay trash mix			
27.5	Silty clay trash mix			
28.0	Silty clay trash mix			
28.5	Silty clay trash mix			
29.0	Trash			
29.5	Trash			
30.0	Trash			

Borehole Number:SEAARB2001 (continued)

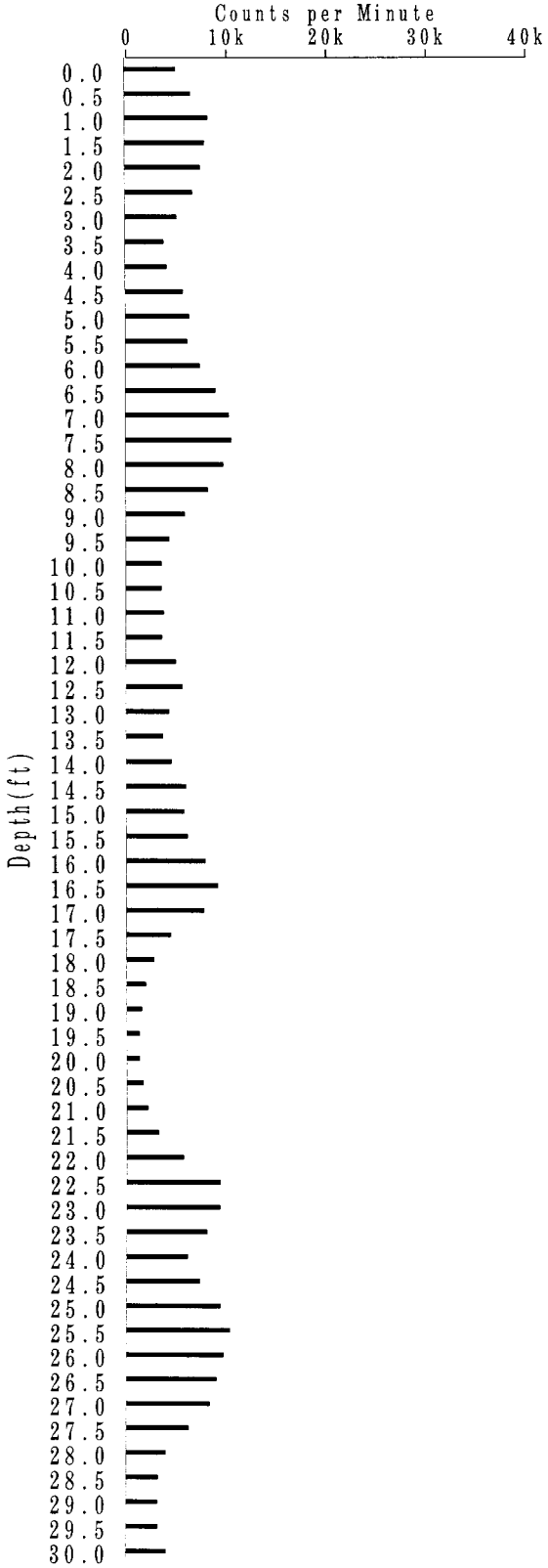
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			

Borehole Number: SEAARB2002

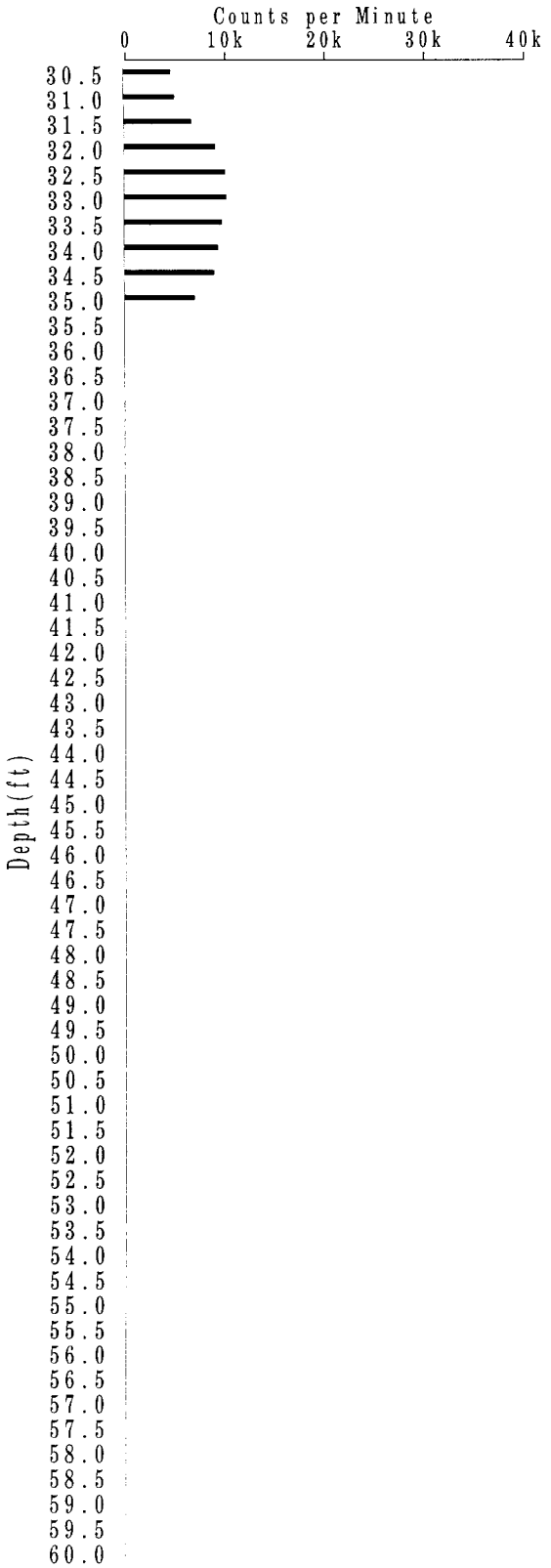
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth(ft)	Description	Ra-226	Th-230	U-238
			pCi/g	
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Trash			
3.0	Trash			
3.5	Trash	1.09 =	8.06 =	1.63 =
4.0	Trash			
4.5	No recovery			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	No recovery			
15.0	No recovery			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Trash			
19.5	Trash			
20.0	Trash			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash			
22.5	Trash			
23.0	No recovery			
23.5	No recovery			
24.0	No recovery			
24.5	No recovery			
25.0	No recovery			
25.5	Silt	0.587 =	-3.47 UJ	0.812 U
26.0	Silt			
26.5	Silt			
27.0	Silt			
27.5	Silt			
28.0	Silt			
28.5	Trash			
29.0	Trash			
29.5	Trash			
30.0	Trash			

Borehole Number:SEAARB2002 (continued)

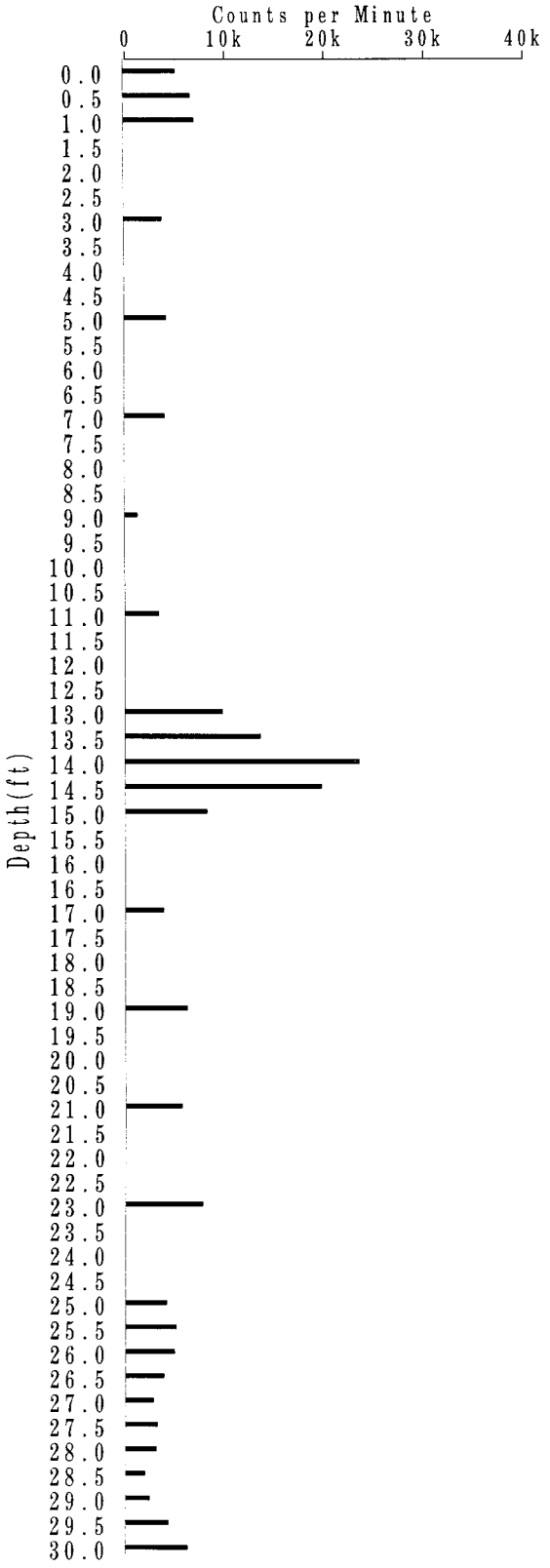
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARB2003

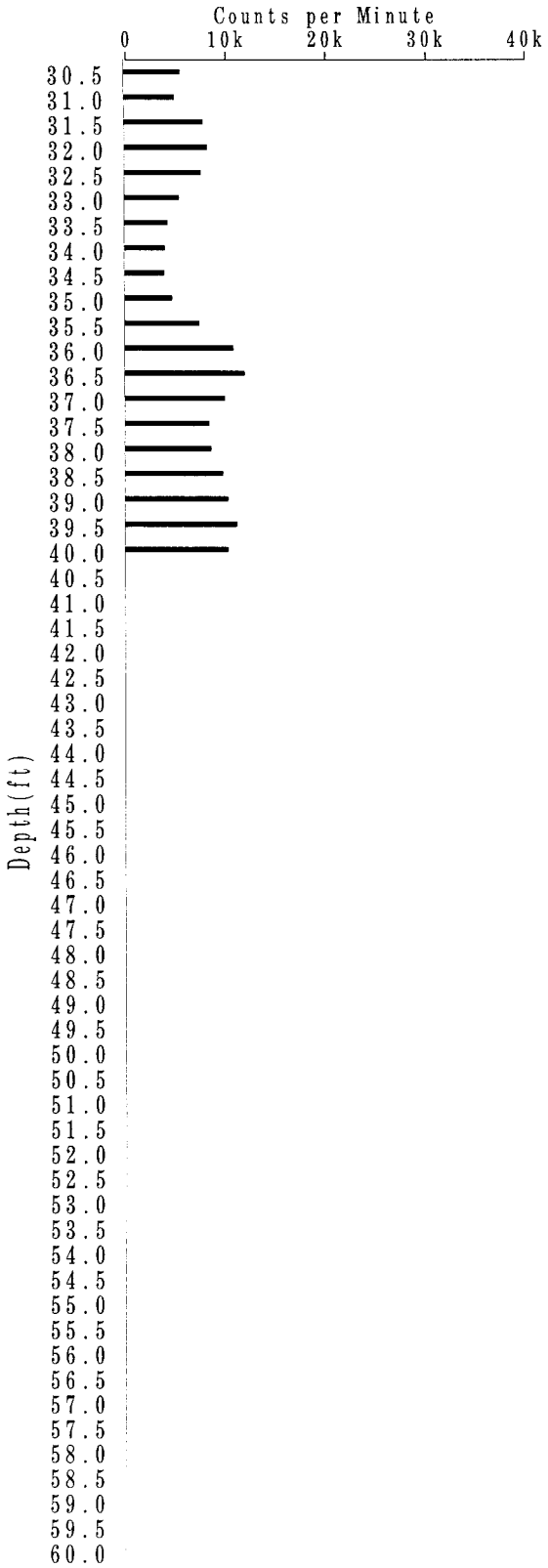
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
			pCi/g	
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Trash			
2.0	Trash			
2.5	Trash			
3.0	Trash			
3.5	Trash			
4.0	Trash			
4.5	Trash			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash	0.736 =	-4.42 UJ	0.288 U
13.5	Silty clay			
14.0	Silty clay			
14.5	Silty clay	3.72 =	71.8 =	5.11 =
15.0	Silty clay			
15.5	Silty clay			
16.0	Silty clay			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Silty clay			
19.5	No recovery			
20.0	No recovery			
20.5	Silt			
21.0	Silt			
21.5	Silt			
22.0	Silt			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Silty clay			
26.0	Silty clay			
26.5	Trash			
27.0	Trash			
27.5	Trash			
28.0	Trash			
28.5	Trash			
29.0	Trash			
29.5	No recovery			
30.0	No recovery			

Borehole Number:SEAARB2003 (continued)

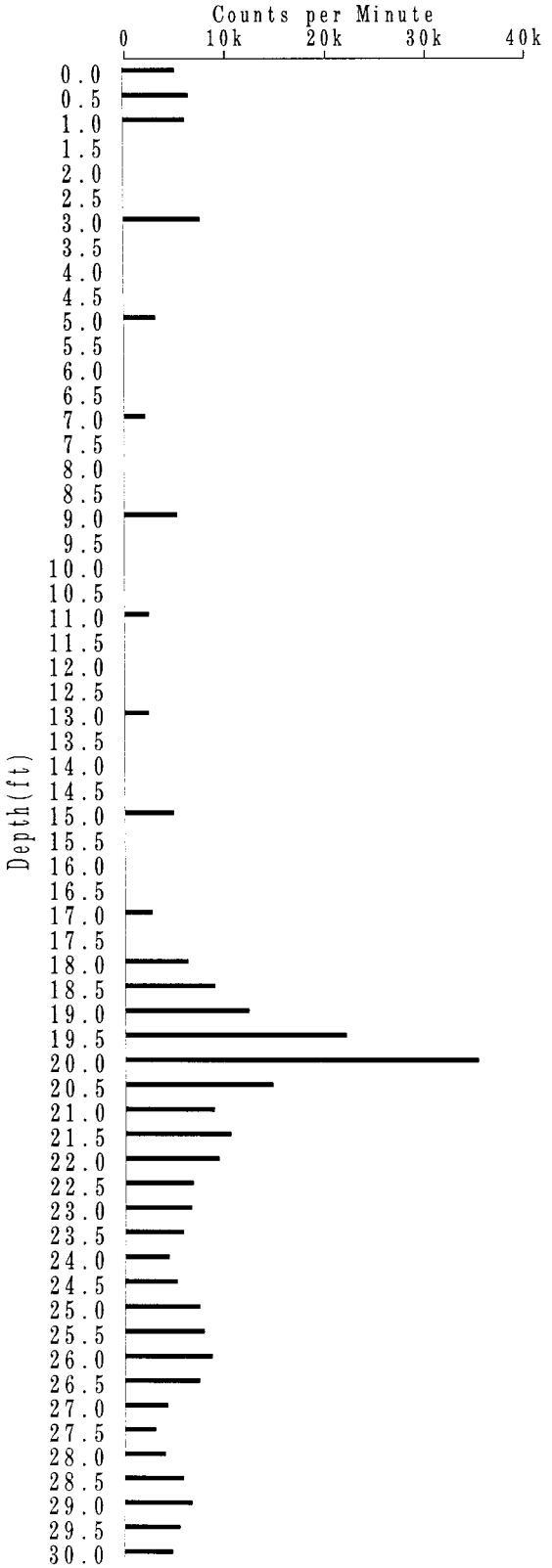
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARB2004

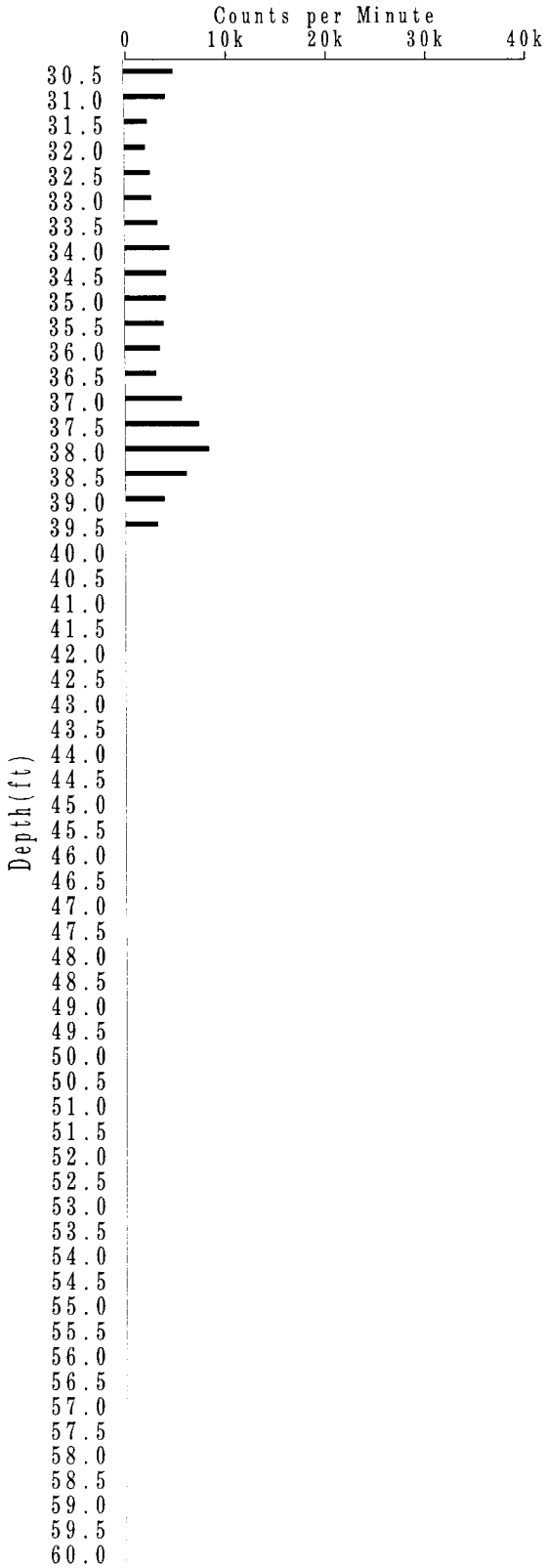
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Silty clay mix			
0.5	Silty clay mix			
1.0	Silty clay mix			
1.5	Silty clay mix			
2.0	Trash			
2.5	Trash			
3.0	Trash			
3.5	Trash			
4.0	Silty clay mix			
4.5	Silty clay mix			
5.0	Trash			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	Trash			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Silty clay mix			
15.0	Silty clay mix			
15.5	Silty clay mix			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Silty clay trash fill mix			
19.0	Silty clay trash fill mix			
19.5	Silty clay trash fill mix			
20.0	Silty clay trash fill mix	6.12 =	133 =	10.2 =
20.5	Trash/demo debris/fill	1.62 =	34 =	2.53 =
21.0	Trash/demo debris/fill			
21.5	Trash/demo debris/fill			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Silty clay trash mix			
25.5	Silty clay trash mix			
26.0	Silty clay trash mix			
26.5	Trash			
27.0	Trash			
27.5	Trash			
28.0	Trash			
28.5	Trash			
29.0	Silty clay mix			
29.5	Silty clay mix			
30.0	Trash			

Borehole Number:SEAARB2004 (continued)

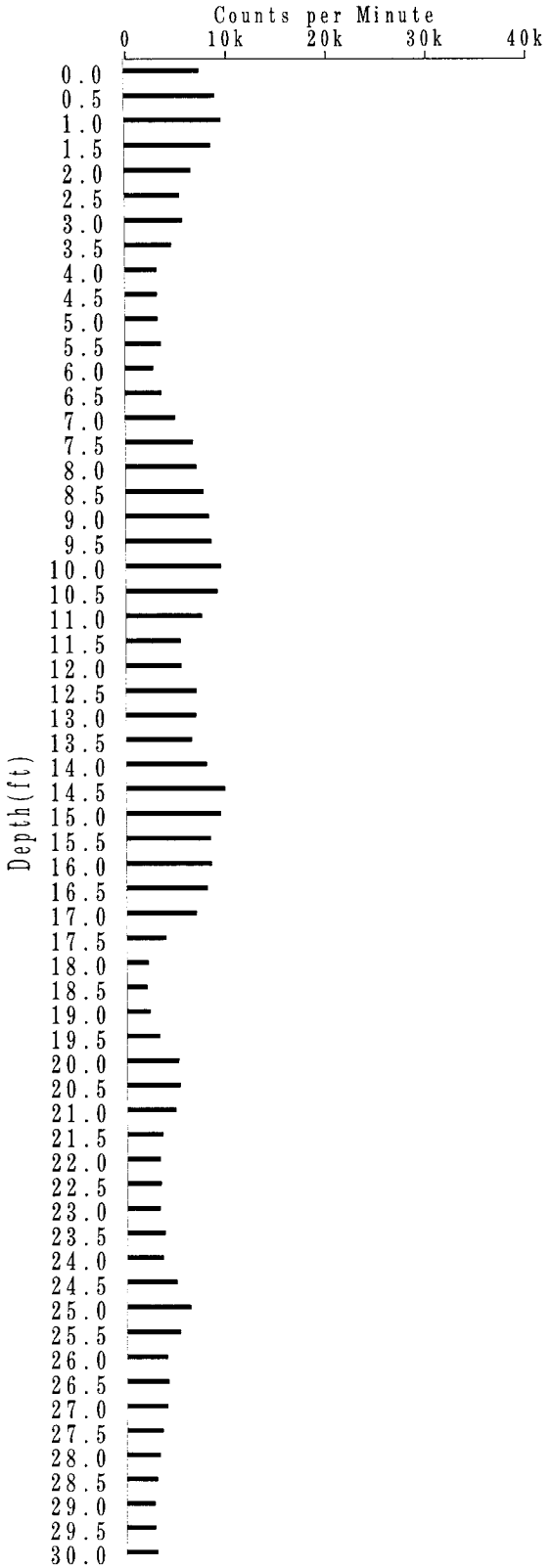
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARB2005

Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth(ft)	Description	Ra-226	Th-230	U-238
			pCi/g	
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Trash			
2.5	Trash			
3.0	Trash			
3.5	Trash			
4.0	Trash			
4.5	Trash			
5.0	Trash			
5.5	Trash			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silt			
11.0	Silt			
11.5	Silt			
12.0	Silt			
12.5	Silty clay mix			
13.0	Silty clay mix			
13.5	Concrete debris			
14.0	Concrete debris			
14.5	Concrete debris			
15.0	No recovery			
15.5	No recovery			
16.0	No recovery			
16.5	No recovery			
17.0	No recovery			
17.5	No recovery			
18.0	No recovery			
18.5	No recovery			
19.0	No recovery			
19.5	No recovery			
20.0	No recovery			
20.5	Silty clay mix	0.604 =	0.482 U	1.05 =
21.0	Silty clay mix			
21.5	Silty clay mix			
22.0	Silty clay mix			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Trash			
26.0	Trash with silt mix			
26.5	Trash with silt mix			
27.0	Trash with silt mix			
27.5	Trash			
28.0	Fill/clay mix			
28.5	Fill/clay mix			
29.0	Fill/clay mix			
29.5	Trash			
30.0	Trash			

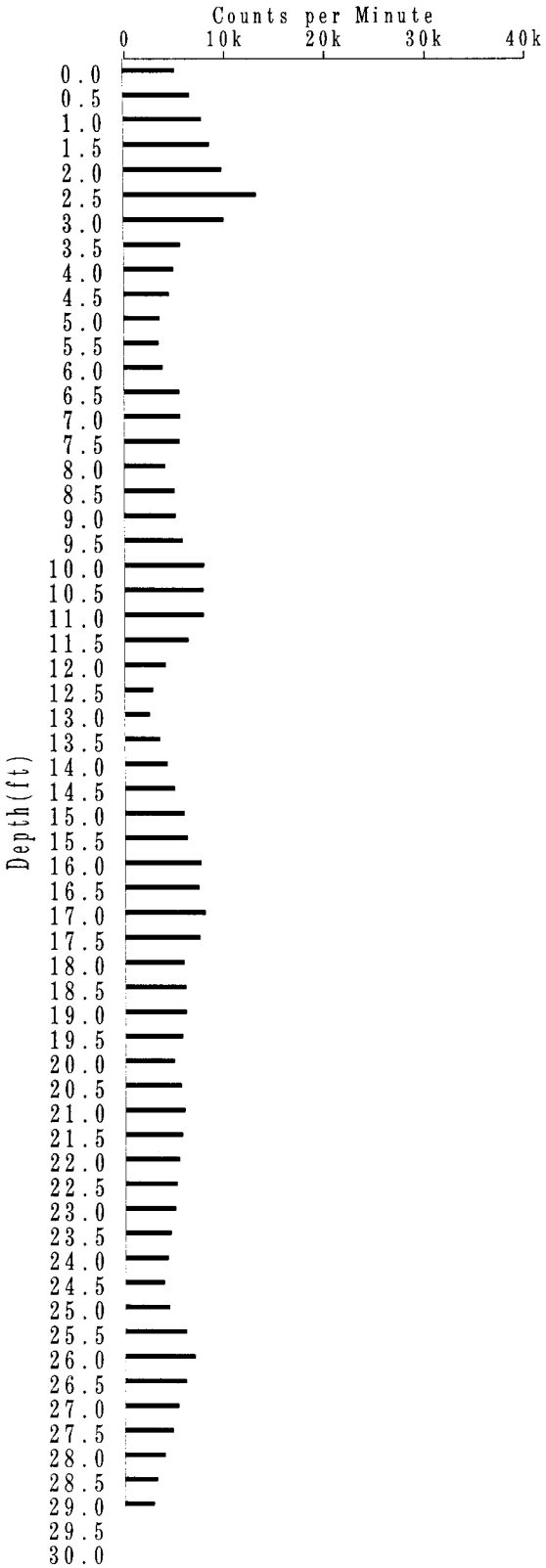
Borehole Number:SEAARB2005 (continued)

Down-hole Gamma, Geological Logs, and BEGe Results with Depth

Depth(ft)	Counts per Minute (0 – 10k – 20k – 30k – 40k)	Description	Ra-226 (pCi/g)	Th-230 (pCi/g)	U-238 (pCi/g)
30.5		No log			
31.0					
31.5					
32.0					
32.5					
33.0					
33.5					
34.0					
34.5					
35.0					
35.5					
36.0					
36.5					
37.0					
37.5					
38.0					
38.5					
39.0					
39.5					
40.0					
40.5					
41.0					
41.5					
42.0					
42.5					
43.0					
43.5					
44.0					
44.5					
45.0					
45.5					
46.0					
46.5					
47.0					
47.5					
48.0					
48.5					
49.0					
49.5					
50.0					
50.5					
51.0					
51.5					
52.0					
52.5					
53.0					
53.5					
54.0					
54.5					
55.0					
55.5					
56.0					
56.5					
57.0					
57.5					
58.0					
58.5					
59.0					
59.5					
60.0					

Borehole Number:SEAARB2006

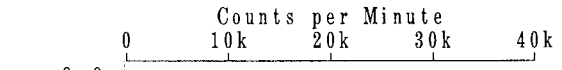
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	Th-230	U-238
		pCi/g	
Rubble			
Rubble			
Rubble			
Rubble			
Rubble			
Trash	1.2 =	14.8 =	2.13 =
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
Silty clay			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARB2007

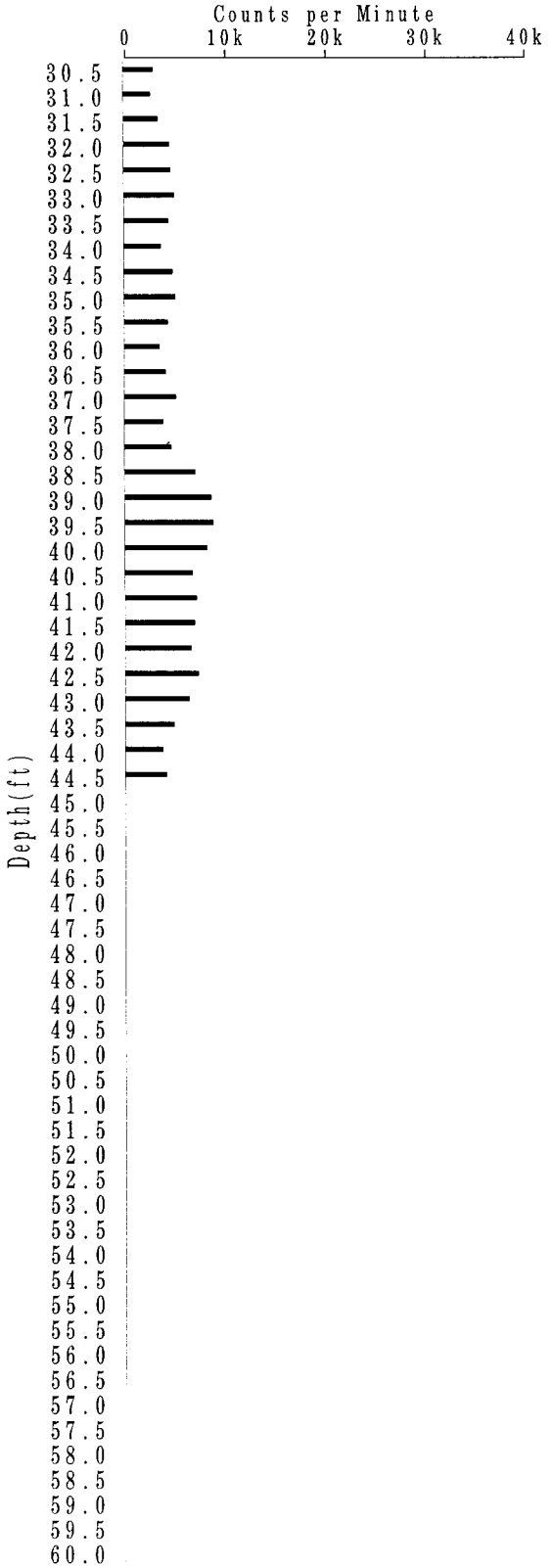
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth(ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay gravel mix			
0.5	Silty clay gravel mix			
1.0	Silty clay gravel mix	0.702 =	-2.95 UJ	0.722 U
1.5	Silty clay gravel mix			
2.0	Silty clay gravel mix			
2.5	Silty clay gravel mix			
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay trash mix			
11.0	Silty clay trash mix			
11.5	Silty clay trash mix			
12.0	Silty clay trash mix			
12.5	Silty clay trash mix			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Trash			
19.5	No recovery			
20.0	No recovery			
20.5	Silty clay trash mix			
21.0	Silty clay trash mix			
21.5	Silty clay trash mix			
22.0	Silty clay trash mix			
22.5	Silty clay trash mix			
23.0	Silty clay trash mix			
23.5	Silty clay mix			
24.0	Silty clay mix			
24.5	Silty clay mix			
25.0	Silt/trash mix			
25.5	Silt/trash mix			
26.0	Silt/trash mix			
26.5	Rubble			
27.0	Rubble			
27.5	Rubble			
28.0	Rubble			
28.5	Rubble			
29.0	Rubble			
29.5	Trash			
30.0	Trash			

Borehole Number:SEAARB2007 (continued)

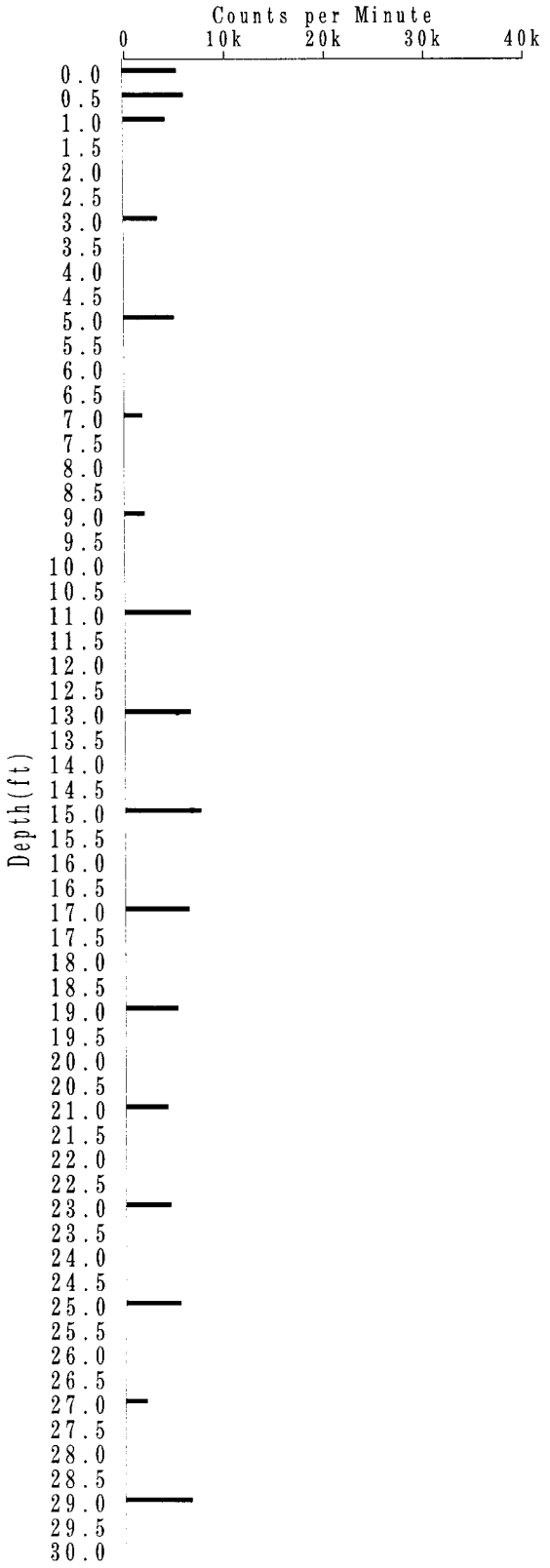
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Trash			
Trash			
Trash			
Trash			
Trash			

Borehole Number: SEAARB2008

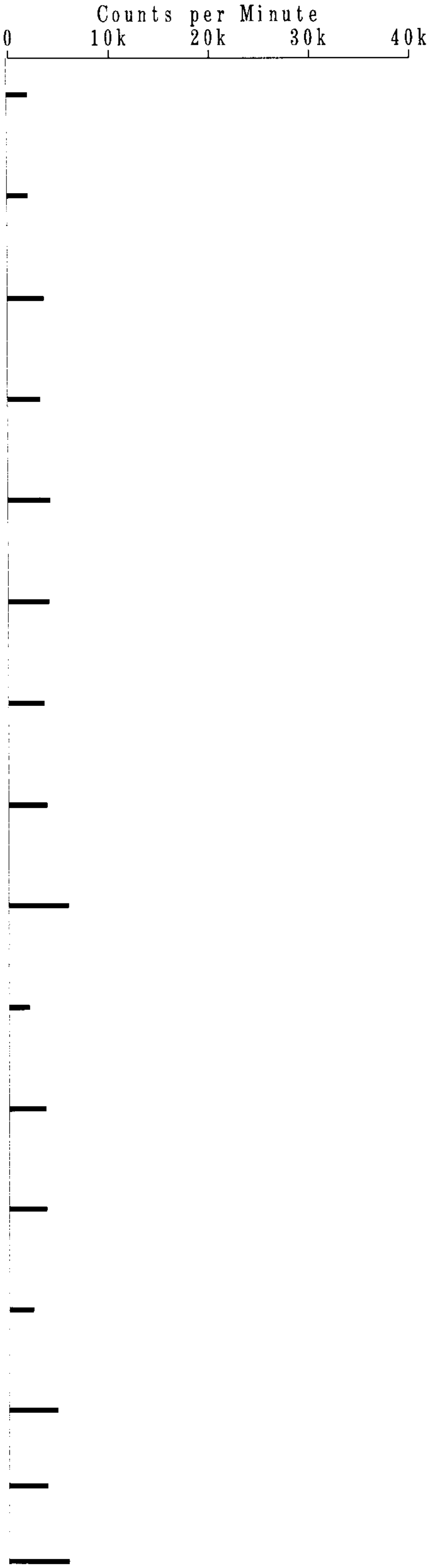
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Silty fine sand			
Silty fine sand			
Trash			
Trash			
Trash			
Silt			
Silt			
Silt			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Silty clay trash mix			
Trash			
Trash			
Trash			
Trash			
Trash			
Poorly grated sand			
Poorly grated sand			
Poorly grated sand			
Poorly grated sand			
Poorly grated sand			
Poorly grated sand			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			

Borehole Number: SEAARB2008 (continued)

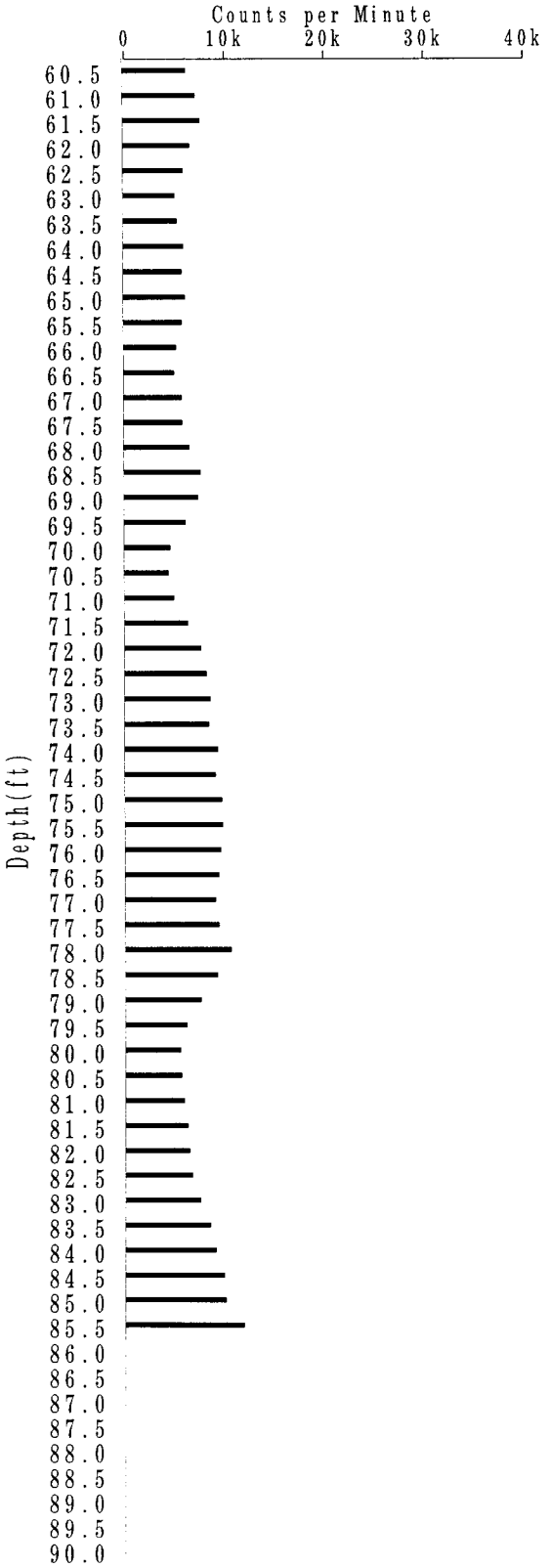
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226 (pCi/g)	Th-230 (pCi/g)	U-238 (pCi/g)
30.5	Poorly grated sand			
31.0	Poorly grated sand			
31.5	Silty clay trash mix			
32.0	Silty clay trash mix			
32.5	Silty clay trash mix			
33.0	Trash			
33.5	Trash			
34.0	Trash			
34.5	Trash			
35.0	Trash			
35.5	Silty clay fill mix			
36.0	Silty clay fill mix			
36.5	Trash			
37.0	Trash			
37.5	Trash			
38.0	Trash			
38.5	Trash			
39.0	Trash			
39.5	No recovery			
40.0	No recovery			
40.5	Silty clay trash fill mix			
41.0	Silty clay trash fill mix			
41.5	Silty clay trash fill mix			
42.0	Silty clay trash fill mix			
42.5	Silty clay trash fill mix			
43.0	Silty clay trash fill mix			
43.5	Silty clay trash fill mix			
44.0	Silty clay trash fill mix			
44.5	Silty clay gravel mix			
45.0	Silty clay gravel mix			
45.5	Silty clay gravel mix			
46.0	Trash			
46.5	Trash			
47.0	Trash			
47.5	Trash			
48.0	Trash			
48.5	Trash			
49.0	Trash			
49.5	Trash			
50.0	Trash			
50.5	Trash			
51.0	Trash			
51.5	Trash			
52.0	Trash			
52.5	Trash			
53.0	Trash			
53.5	Trash			
54.0	Trash			
54.5	Trash			
55.0	Trash			
55.5	Trash			
56.0	Trash			
56.5	Trash			
57.0	Silt			
57.5	Silt			
58.0	Silt			
58.5	Silt			
59.0	Silt			
59.5	No recovery			
60.0	No recovery			

Borehole Number:SEAARB2008 (continued)

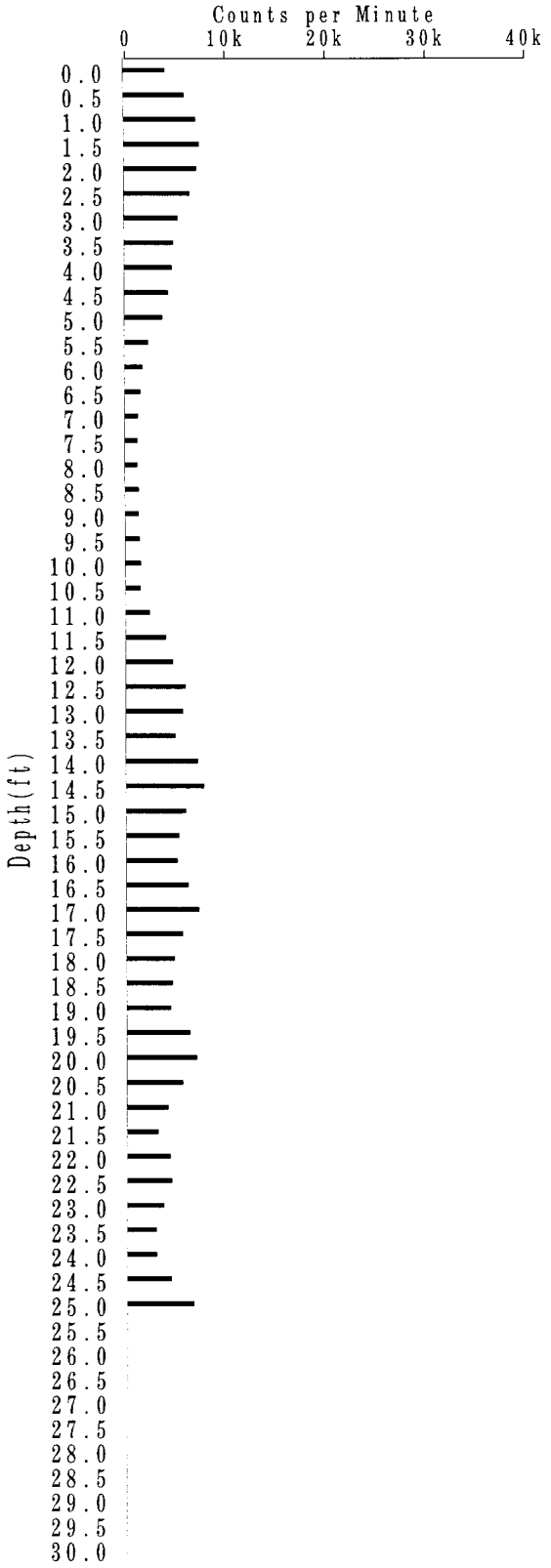
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth(ft)	Description	pCi/g Ra-226	Th-230	U-238
60.5	Silt			
61.0	Silt			
61.5	Silt			
62.0	Silt			
62.5	Rubble			
63.0	Rubble			
63.5	Rubble			
64.0	Silt			
64.5	Silt			
65.0	Silt			
65.5	Silt			
66.0	Silt			
66.5	Silt			
67.0	Silt			
67.5	Silt			
68.0	Silt			
68.5	Silt			
69.0	Rubble			
69.5	Silt			
70.0	Silt			
70.5	Silt			
71.0	Silt			
71.5	Silt			
72.0	Silty clay	0.567 =	2.2 U	-0.393 UJ
72.5	Fill			
73.0	Fill			
73.5	Fill			
74.0	Fill			
74.5	Fill			
75.0	Fill			
75.5	Fill			
76.0	Fill			
76.5	Fill			
77.0	Fill			
77.5	Fill			
78.0	Fill			
78.5	Fill			
79.0	Trash			
79.5	Trash			
80.0	Trash			
80.5	Trash			
81.0	Trash			
81.5	Trash			
82.0	Trash			
82.5	Trash			
83.0	Trash			
83.5	Trash			
84.0	Trash			
84.5	Trash			
85.0	Trash			
85.5	No log			

Borehole Number: SEAARB2010

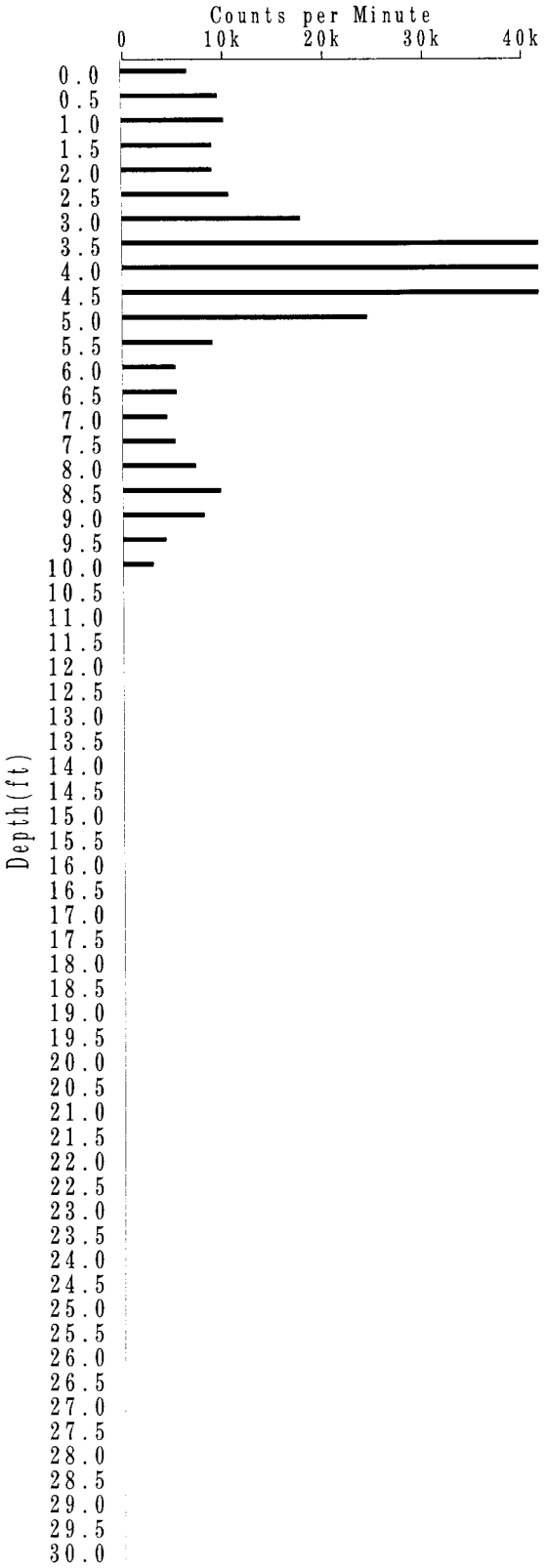
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	pCi/g Ra-226	Th-230	U-238
Demo debris			
Demo debris			
Demo debris			
Demo debris			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash	1.04 =	10.1 U	1.43 =
Silty clay gravel mix			
Silty clay gravel mix			
Trash			
Trash			
Trash			
Silty clay/rubble			
Silty clay/rubble			
Silty clay/rubble			
Silty clay/rubble			
Silty clay trash mix			
Silty clay trash mix	0.708 =	0.641 U	0.879 =
Silty clay trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Silt/trash mix			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARC1001

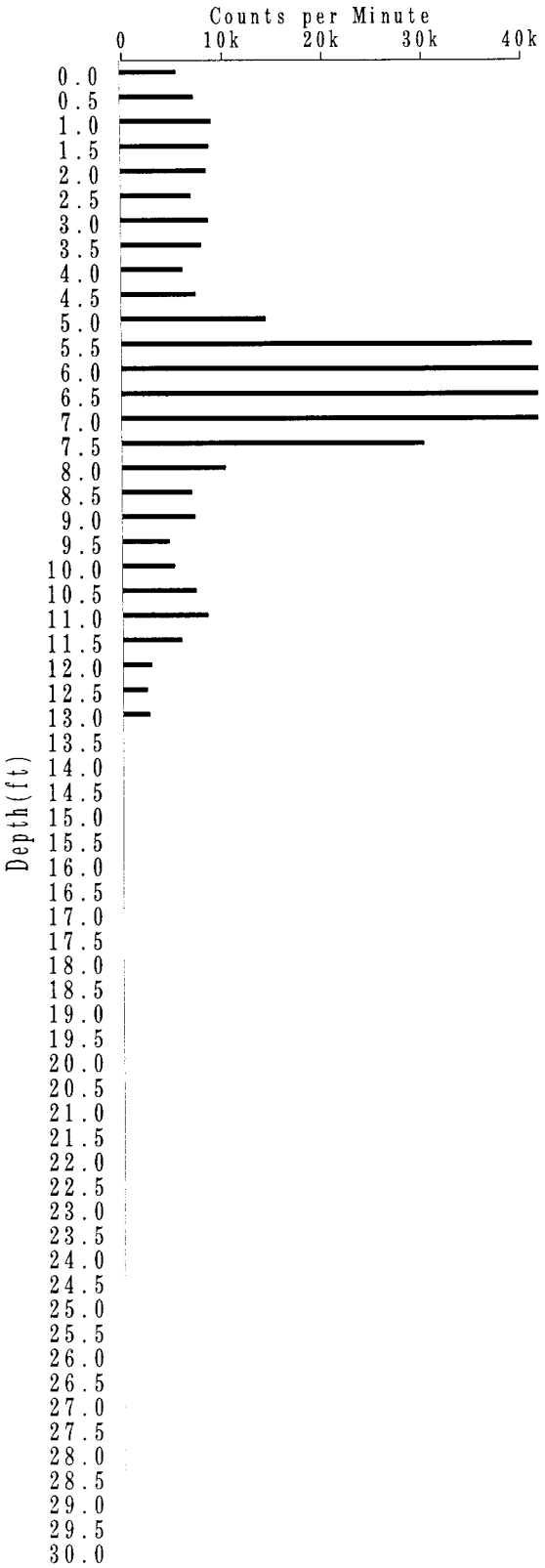
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	pCi/g Ra-226	Th-230	U-238
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Trash			
Trash	2.57 =	96.4 =	8.44 =
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
Fine material			
Fine material			
Fine material			
Fine material	0.501 =	-4.86 UJ	0.617 U
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARC1002

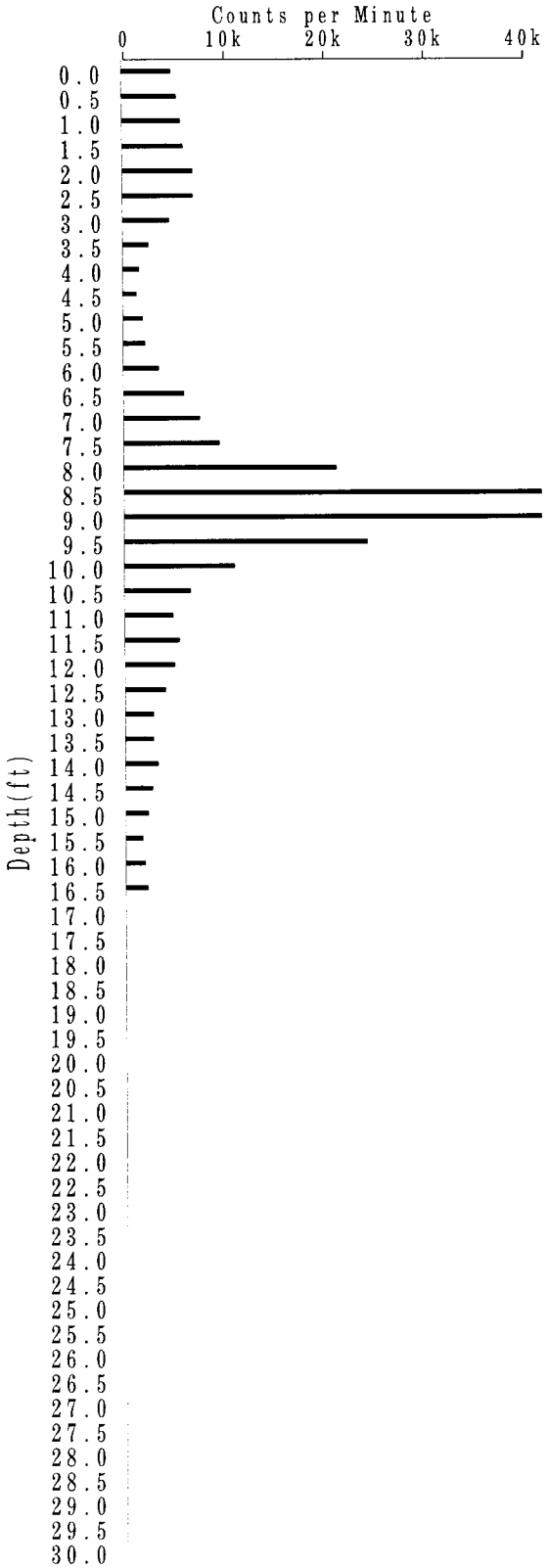
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	pCi/g Ra-226	Th-230	U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Trash			
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Trash			
11.0	Trash	3.13 =	80 =	6.79 =
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	No recovery			

Borehole Number: SEAARC1003

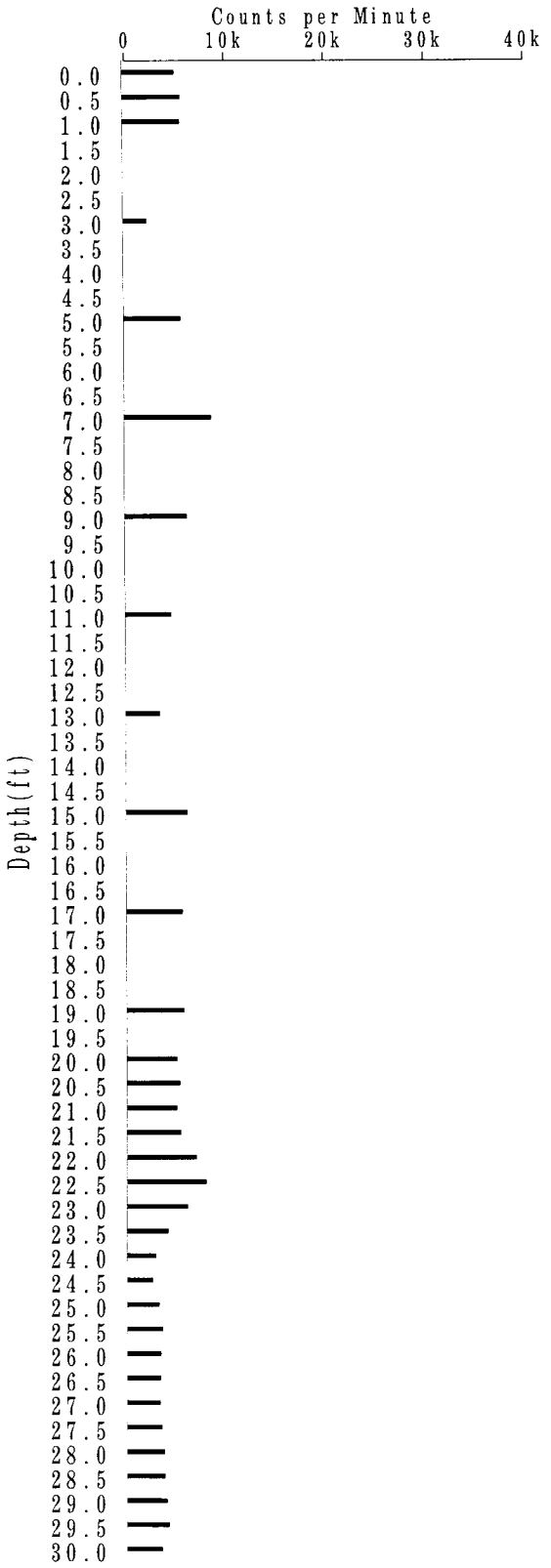
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Trash			
0.5	Trash			
1.0	Trash			
1.5	Trash			
2.0	Trash			
2.5	No recovery			
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Red brick fragments			
6.0	Red brick fragments			
6.5	Silty clay	1.23 =	24.2 =	2.07 =
7.0	Silty clay			
7.5	Silty clay			
8.0	Silty clay	5.32 =	213 =	17.5 =
8.5	Silty clay	2.32 =	51 =	6.92 =
9.0	Silty clay			
9.5	Trash			
10.0	Trash			
10.5	Trash			
11.0	Trash	2.16 =	82.5 =	6.97 =
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	White chalky material	0.295 =	-8.68 UJ	-0.031 UJ
14.5	Demo debris			
15.0	Demo debris			
15.5	Trash			
16.0	Trash			
16.5	No recovery			

Borehole Number: SEAARC1005

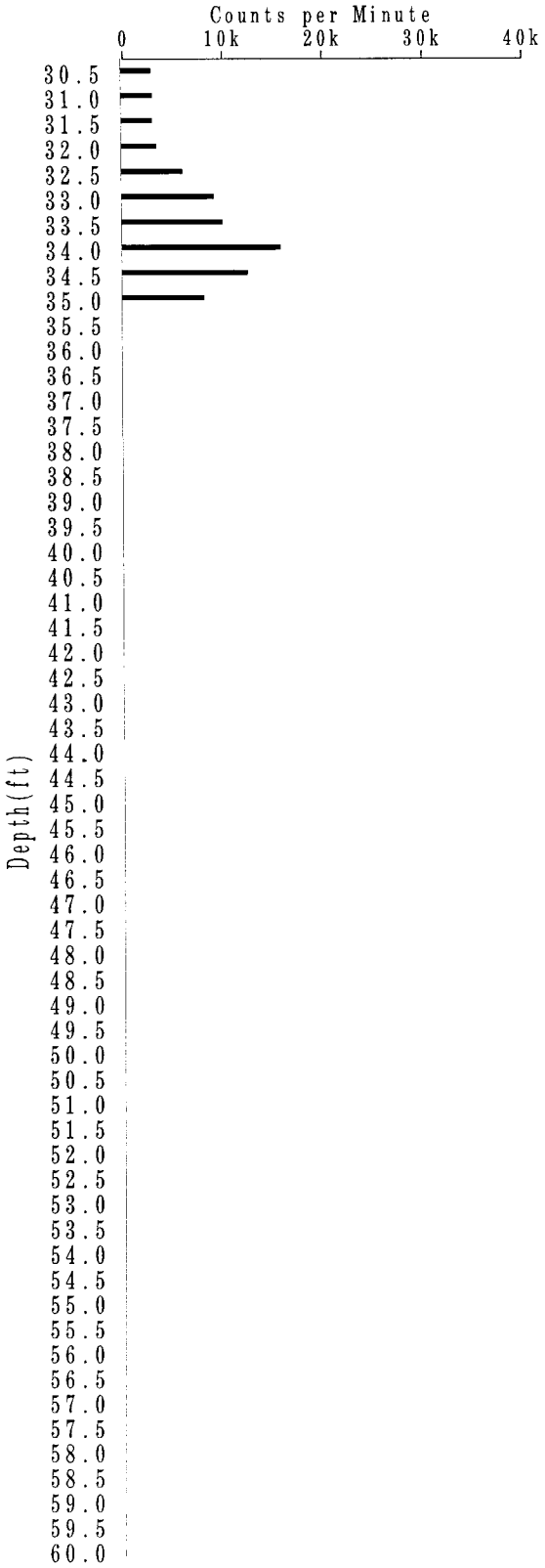
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silty clay			
Silty clay			
Silty clay			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Silty sandy fill			
Silty sandy fill			
Sand			
Sand			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Fill			
Fill			
Fill			
Fill			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Trash			
Trash			
Trash			
Trash			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Poorly graded sand			
Silty clay fill mix			
Silty clay fill mix			
Silty clay fill mix			
Silty clay fill mix			
Silty clay fill mix			
Silty clay fill mix			
Fill			
Fill			
Trash			
Trash			
Trash			
Trash			
Trash			
Silt			
Silt			
Silt			
Silt			
Silt			
Trash			
Trash			

Borehole Number:SEAARC1005 (continued)

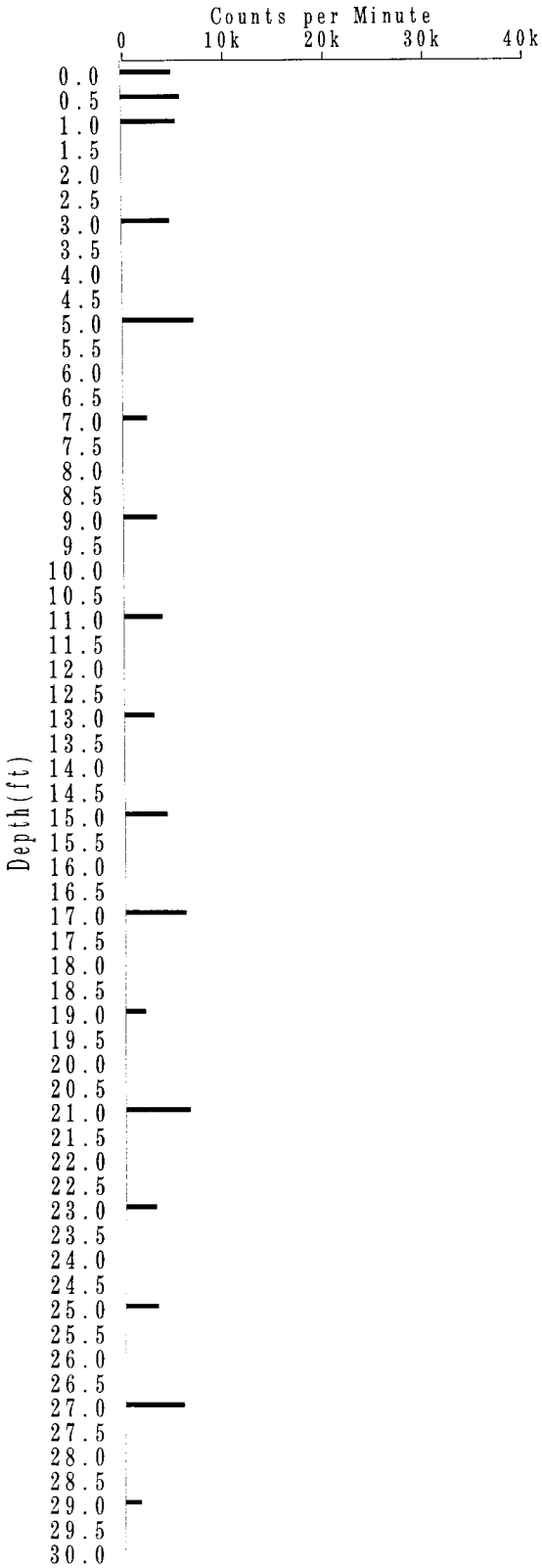
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Reddish brown clay mix			
Reddish brown clay mix			
Reddish brown clay mix			
Reddish brown clay mix			
Reddish brown clay mix			
Reddish brown clay mix			
Reddish brown clay mix	2.04 =	40.2 =	4.59 =
Reddish brown clay mix			
Reddish brown clay mix	0.611 =	-1.2 UJ	1.12 =
Reddish brown clay mix			

Borehole Number: SEAARC1006

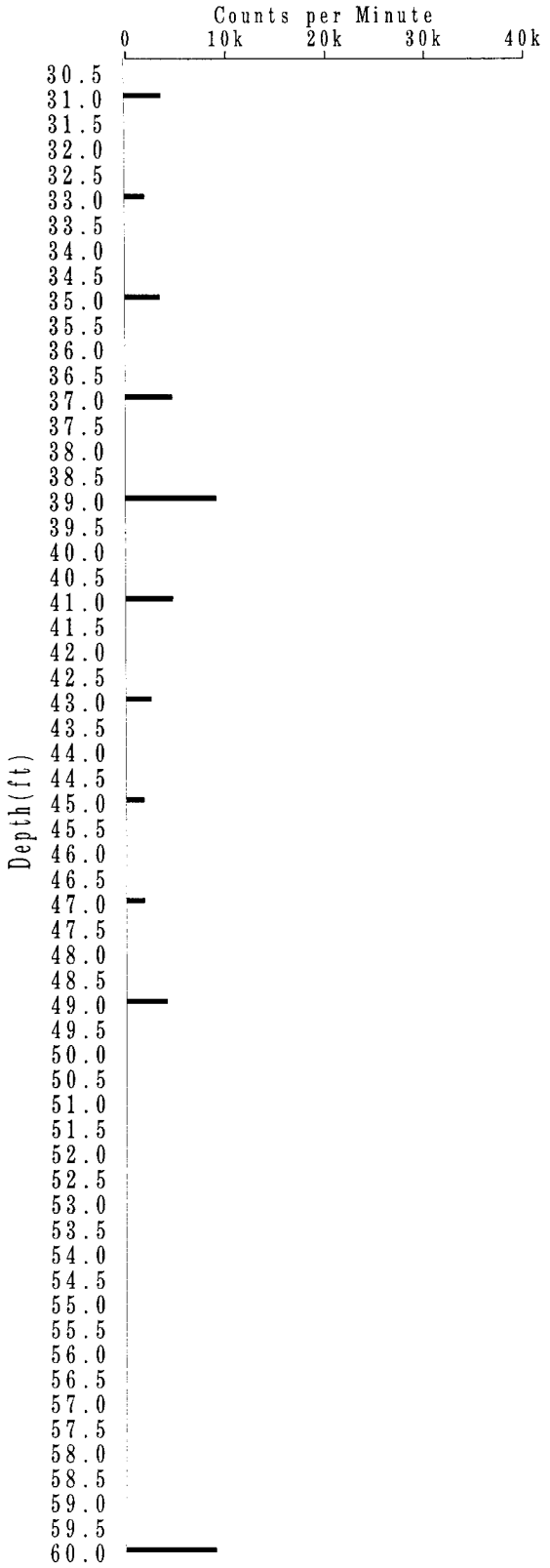
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Loam			
Loam			
Silty clay			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Silty clay			
Silty clay			
Trash			
Trash			
Trash			
Silty clay fill mix			
Silty clay fill mix			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Silty clay trash fill mix			
Silty clay trash fill mix			
Silty clay fill mix			
Silty clay fill mix			
Silty clay fill mix			
Silty clay fill mix			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Silty clay trash mix			
Silty clay trash mix			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			

Borehole Number:SEAARC1006 (continued)

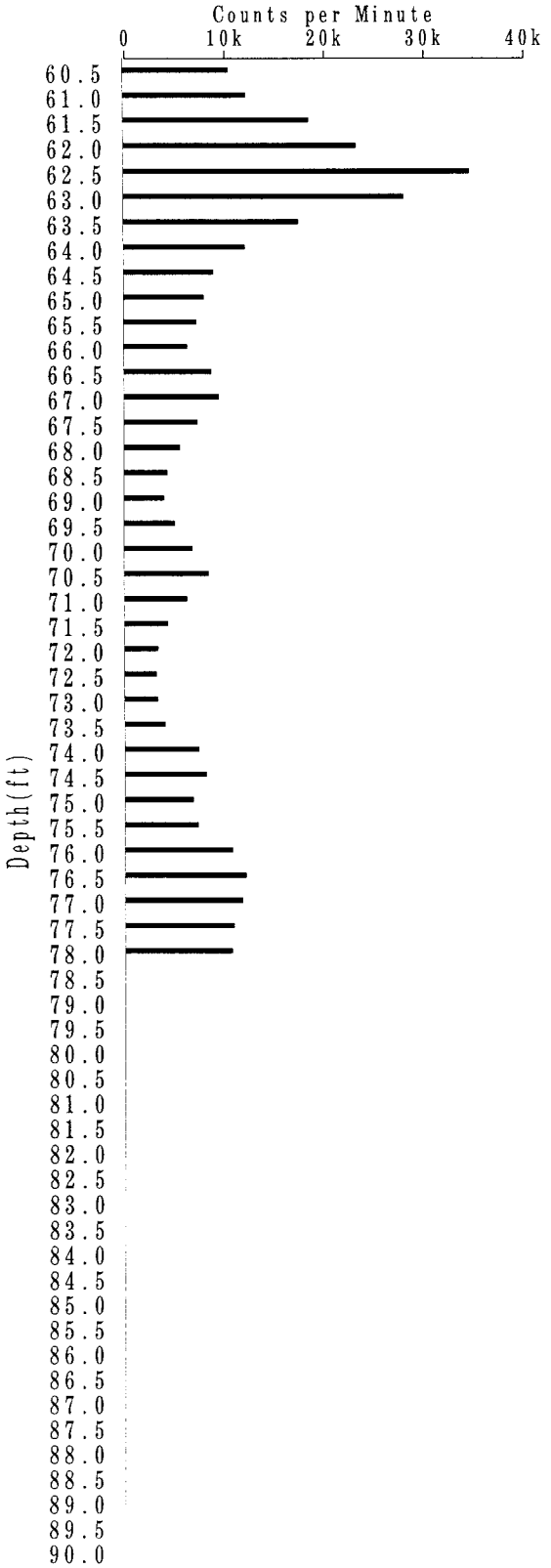
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth(ft)	Description	Ra-226	Th-230	U-238
30.5	Trash			
31.0	Trash			
31.5	Trash			
32.0	Trash			
32.5	Trash			
33.0	Trash			
33.5	Trash			
34.0	Trash			
34.5	Trash			
35.0	Silt			
35.5	Trash			
36.0	Trash			
36.5	Trash			
37.0	Silty clay mix			
37.5	Silty clay mix			
38.0	Silty clay mix			
38.5	Trash			
39.0	Trash			
39.5	Trash			
40.0	Trash			
40.5	Trash			
41.0	Trash			
41.5	Trash			
42.0	Trash			
42.5	Trash			
43.0	Trash			
43.5	Trash			
44.0	Trash			
44.5	Trash			
45.0	Trash			
45.5	Trash			
46.0	No recovery			
46.5	No recovery			
47.0	No recovery			
47.5	No recovery			
48.0	No recovery			
48.5	No recovery			
49.0	No recovery			
49.5	No recovery			
50.0	No recovery			
50.5	Silt			
51.0	Silt			
51.5	Silt			
52.0	Silt			
52.5	Silt			
53.0	Silt			
53.5	Silt			
54.0	Silt			
54.5	Silt			
55.0	Silt			
55.5	Silt			
56.0	Silt			
56.5	Silt			
57.0	Trash			
57.5	Trash			
58.0	Trash			
58.5	Trash			
59.0	Trash			
59.5	Trash			
60.0	Trash			

Borehole Number:SEAARC1006 (continued)

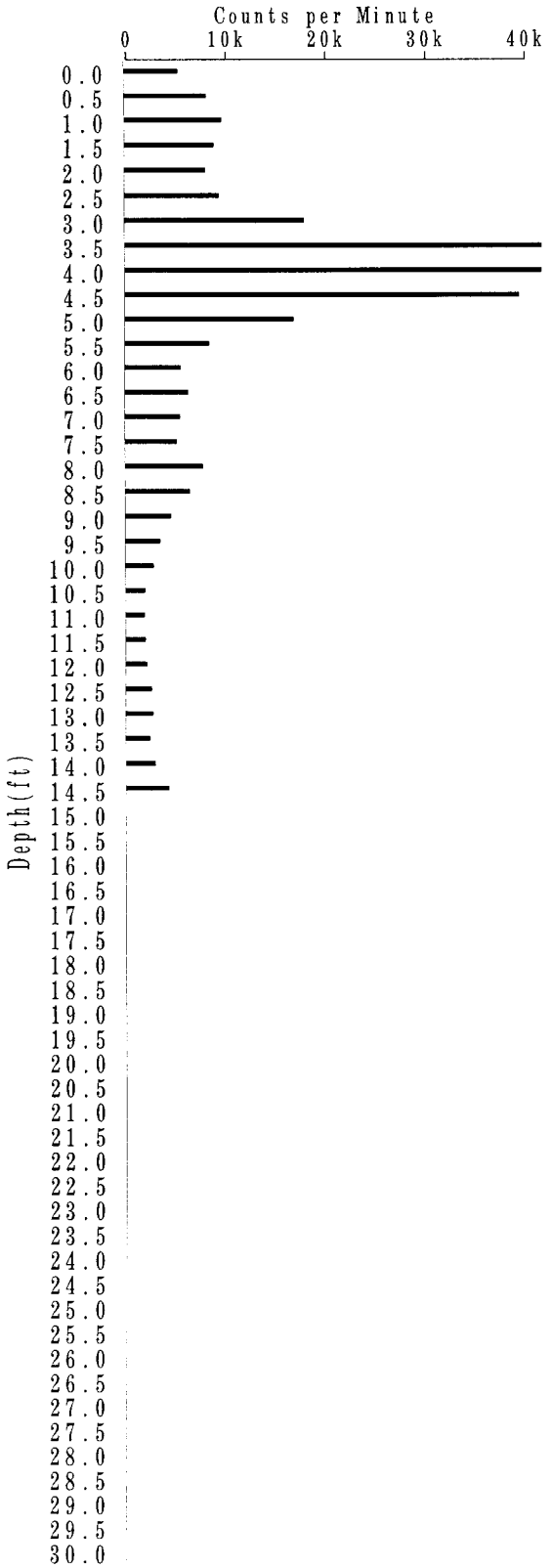
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	pCi/g Ra-226	Th-230	U-238
60.5	Trash			
61.0	Trash			
61.5	Trash			
62.0	Trash			
62.5	Trash	4.73 =	109 =	8.15 =
63.0	Trash	3.54 =	74.9 =	5.45 =
63.5	Trash			
64.0	Trash	0.632 =	-1.95 UJ	0.666 U
64.5	Trash			
65.0	Trash			
65.5	Trash			
66.0	Trash			
66.5	Trash			
67.0	Trash			
67.5	Trash			
68.0	Trash			
68.5	Trash			
69.0	Trash			
69.5	Trash			
70.0	Trash			
70.5	Trash			
71.0	Trash			
71.5	Trash			
72.0	Silty clay			
72.5	Silty clay			
73.0	Silty clay			
73.5	Silty clay			
74.0	Trash			
74.5	Trash			
75.0	Trash			
75.5	Trash			
76.0	Trash			
76.5	Trash			
77.0	Trash			
77.5	Trash			
78.0	Trash			

Borehole Number: SEAARC1008

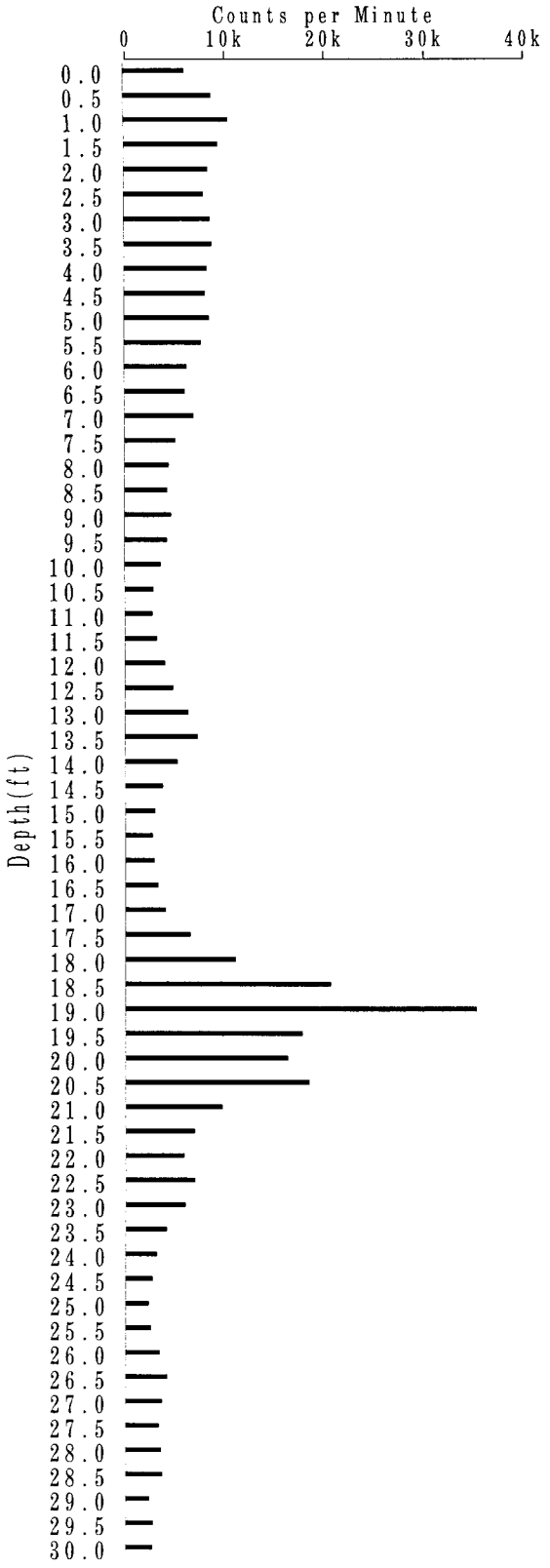
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay mix	5.27 =	234 =	14.8 =
Silty clay mix	5.46 =	235 =	17.8 =
Silty clay mix	1.35 =	13.8 =	2.88 =
Silty clay mix			
Trash	0.623 =	6.79 U	2.56 =
Trash			
Silty clay			
Silty clay			
Trash	0.707 =	-8.58 UJ	0.912 U
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
Wood			
Wood			
Wood			

Borehole Number: SEAARC2001

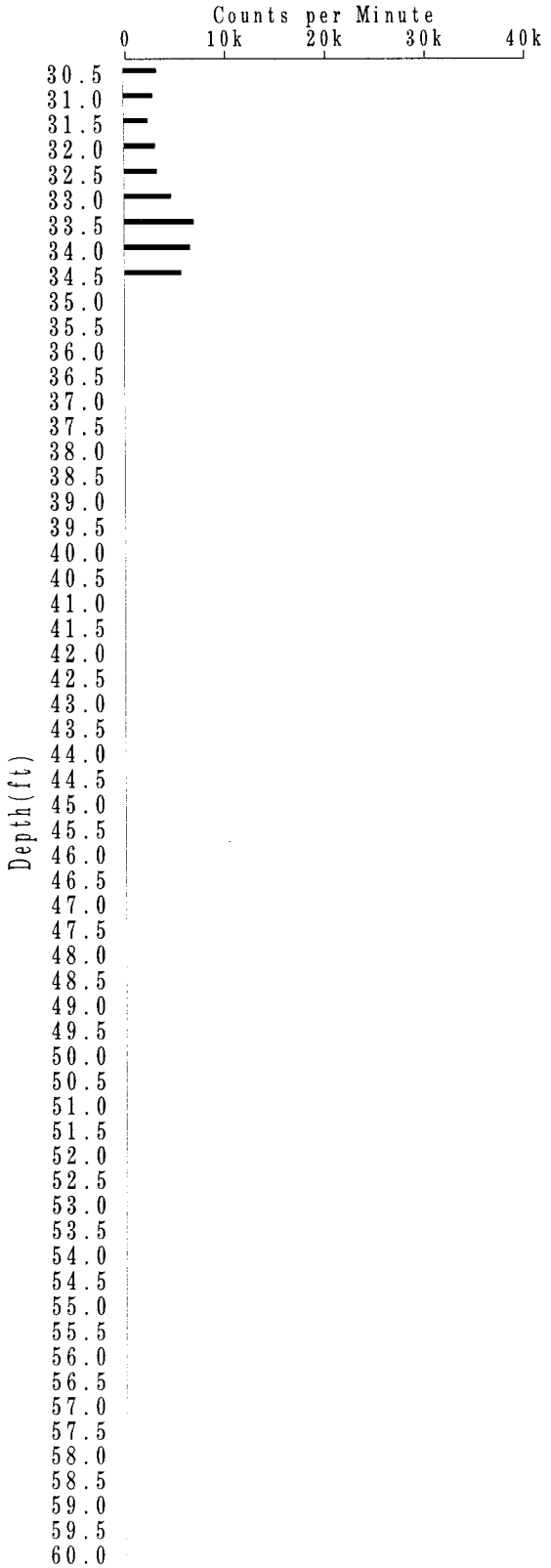
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	pCi/g Ra-226	pCi/g Th-230	pCi/g U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Silty clay			
3.0	Silty clay			
3.5	Silty clay			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Silty clay			
6.0	Silty clay			
6.5	Silty clay			
7.0	Silty clay			
7.5	Fine to medium sand			
8.0	Fine to medium sand			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay			
11.0	Wood			
11.5	Wood			
12.0	Wood			
12.5	Silty clay mix			
13.0	Silty clay mix			
13.5	Silty clay mix			
14.0	Silty clay mix			
14.5	Silty clay			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Trash			
19.5	Trash			
20.0	No recovery			
20.5	Silty clay mix	1.02 =	25.5 =	2.81 J
21.0	Silty clay mix			
21.5	Silty clay mix			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	No recovery			
24.5	No recovery			
25.0	No recovery			
25.5	Trash			
26.0	Trash			
26.5	No recovery			
27.0	No recovery			
27.5	No recovery			
28.0	No recovery			
28.5	No recovery			
29.0	No recovery			
29.5	No recovery			
30.0	No recovery			

Borehole Number:SEAARC2001 (continued)

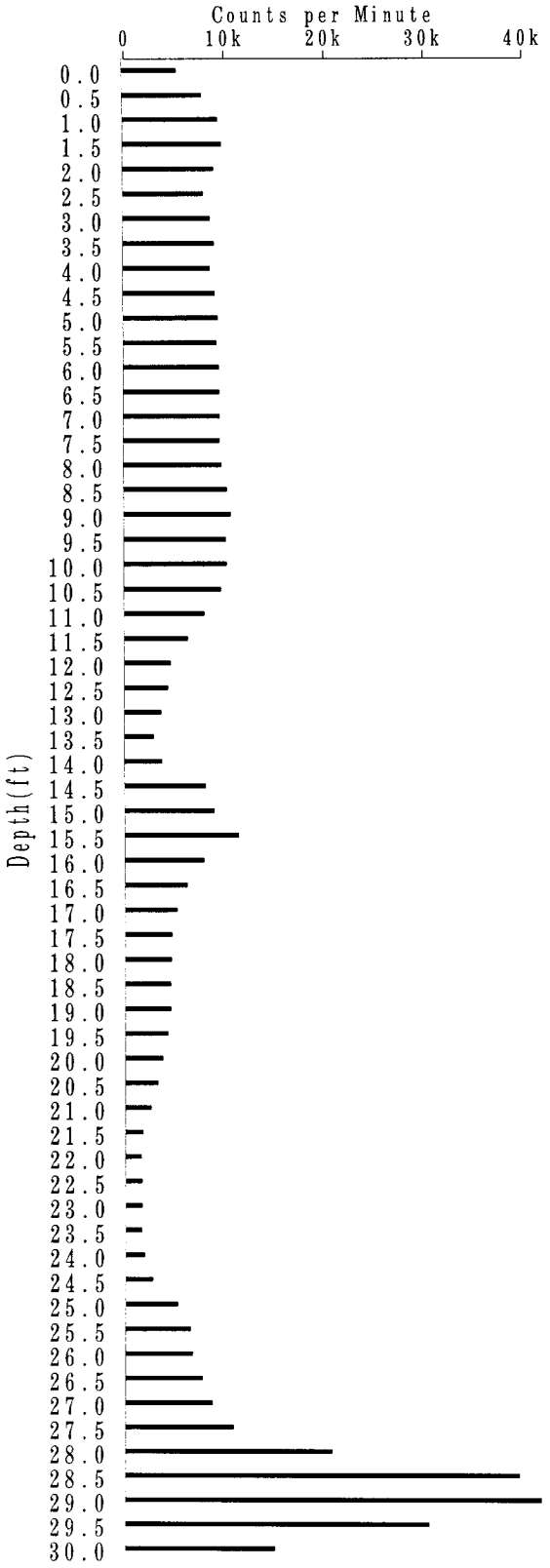
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	pCi/g Ra-226	Th-230	U-238
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay mix			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARC2002

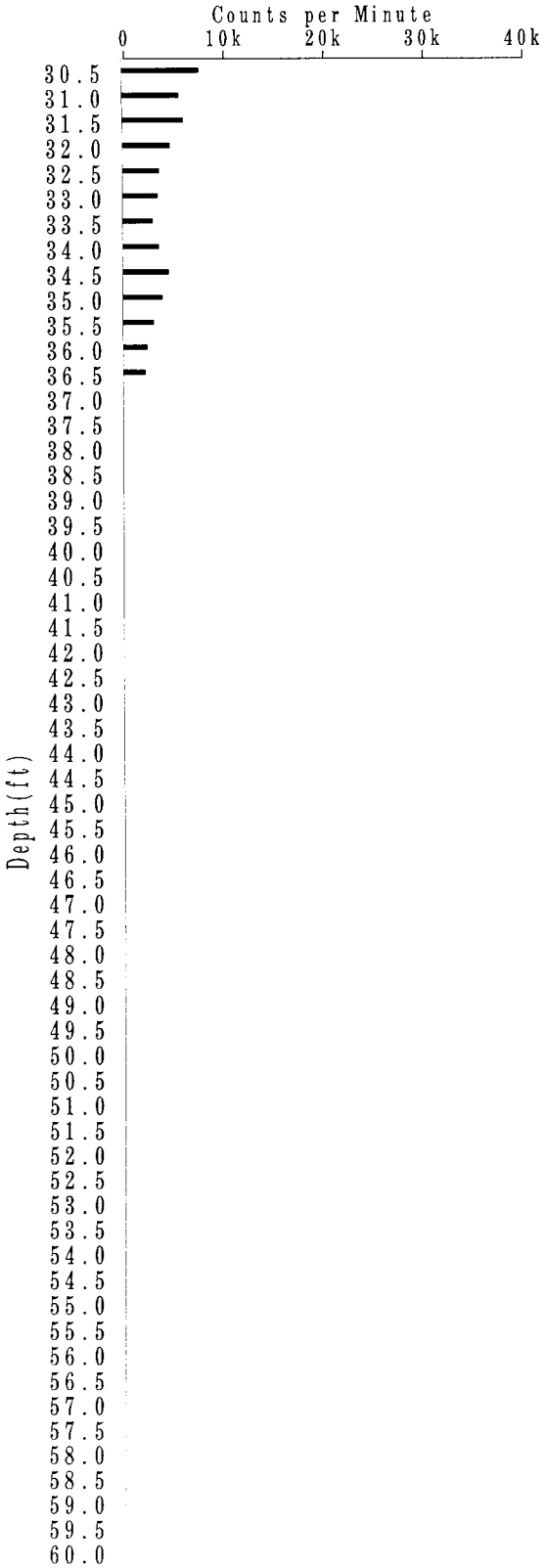
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Asphalt and plastic			
3.0	Asphalt and plastic			
3.5	Silty clay			
4.0	Silty clay			
4.5	Silty clay			
5.0	Silty clay			
5.5	Silty clay			
6.0	Silty clay			
6.5	Silty clay			
7.0	Silty clay			
7.5	Silty clay			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay			
11.0	Silty clay			
11.5	Silty clay			
12.0	Silty clay			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Silty clay			
15.0	Silty clay			
15.5	Concrete/glass mix			
16.0	Concrete/glass mix			
16.5	Concrete/glass mix			
17.0	Concrete/glass mix			
17.5	Fine to medium sand			
18.0	Fine to medium sand			
18.5	Fine to medium sand			
19.0	Fine to medium sand			
19.5	Trash			
20.0	Trash			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Trash with silt mix			
26.0	Trash with silt mix			
26.5	Trash with silt mix			
27.0	Trash			
27.5	Trash			
28.0	Trash	4.11 =	165 =	11.2 J
28.5	Trash	5.71 =	282 =	20.6 J
29.0	Trash	3.49 =	136 =	9.38 J
29.5	Silty clay			
30.0	Silty clay			

Borehole Number:SEAARC2002 (continued)

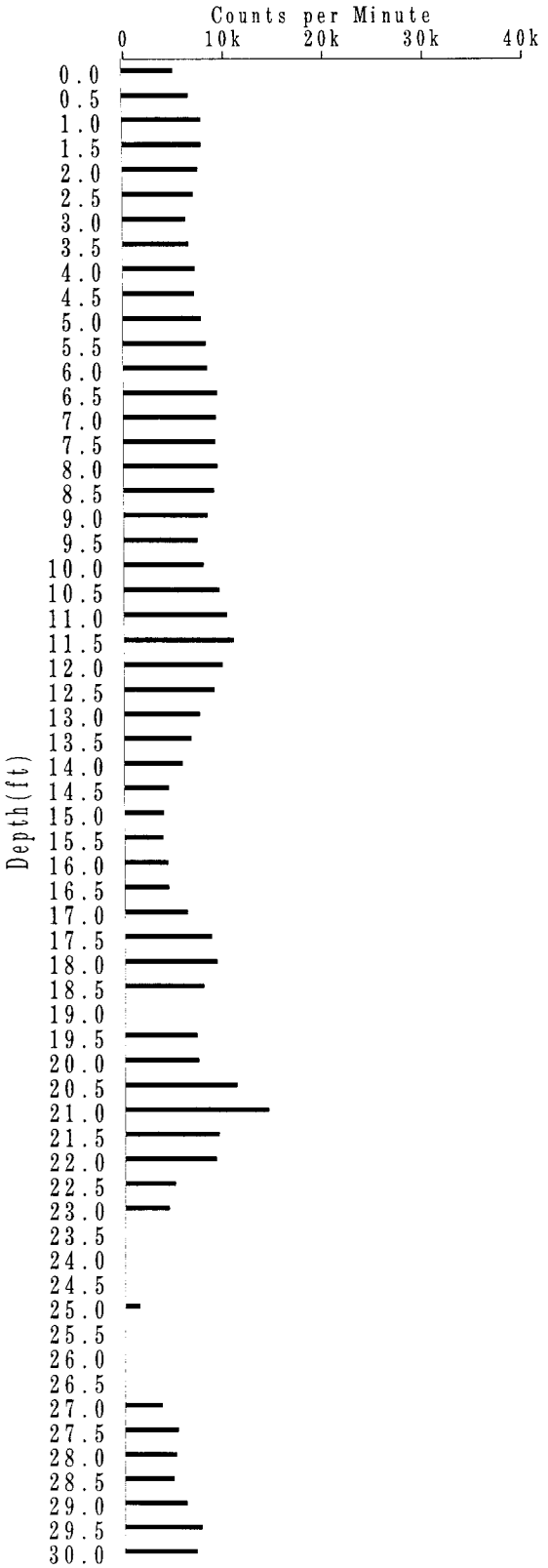
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silty clay			
Silty clay			
Silt, fine			
Silt, fine			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No log			
No log			
No log			

Borehole Number: SEAARC2003

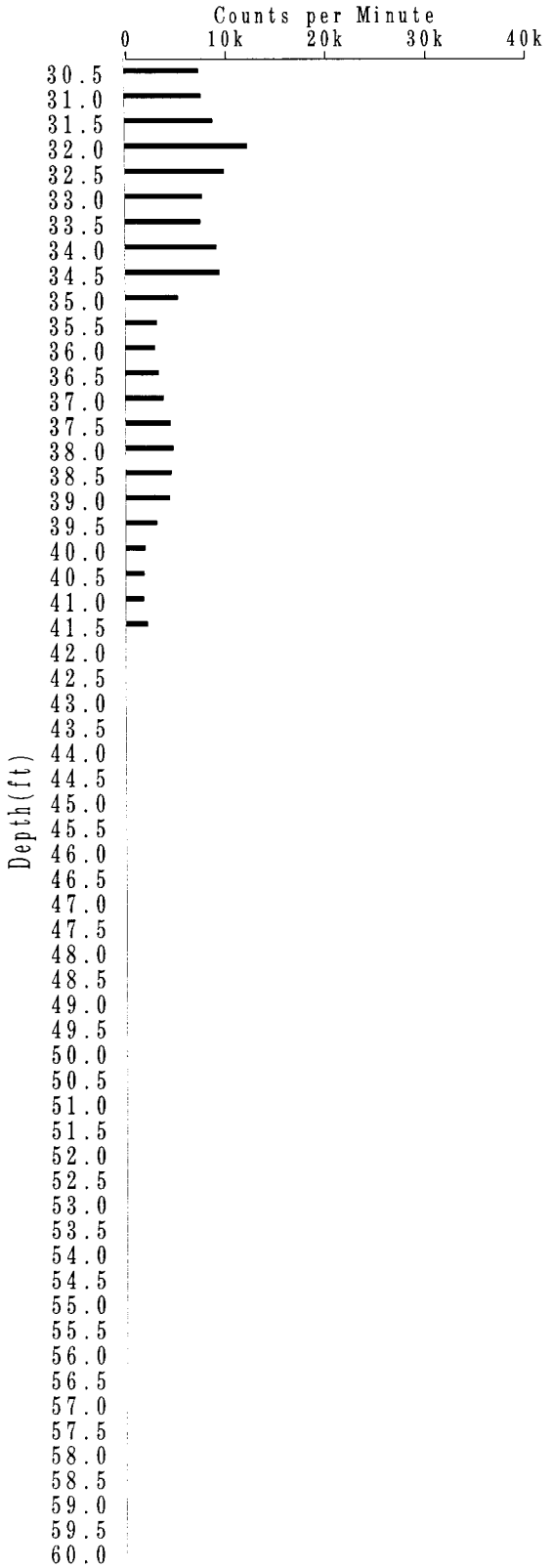
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Demo debris			
0.5	Demo debris			
1.0	Demo debris			
1.5	Demo debris			
2.0	Demo debris			
2.5	Demo debris			
3.0	Demo debris			
3.5	Demo debris			
4.0	Demo debris			
4.5	Demo debris			
5.0	Demo debris			
5.5	Silty clay			
6.0	Silty clay			
6.5	Silty clay			
7.0	Silty clay			
7.5	Silty clay			
8.0	Silty clay			
8.5	Silty clay			
9.0	Silty clay			
9.5	Silty clay			
10.0	Silty clay			
10.5	Silty clay			
11.0	Silty clay			
11.5	Silty clay	0.589 =	2.36 U	0.838 =
12.0	Silty clay			
12.5	Silty clay			
13.0	Silty clay			
13.5	Silty clay			
14.0	Silty clay			
14.5	Silty clay			
15.0	Silty clay			
15.5	Trash			
16.0	Silty clay trash mix			
16.5	Silty clay trash mix			
17.0	Silty clay trash mix			
17.5	Clay			
18.0	Clay			
18.5	Silty clay mix			
19.0	Silty clay mix			
19.5	Silty clay mix			
20.0	Silty clay mix			
20.5	Silty clay			
21.0	Silty clay	2.55 =	50.4 =	4.66 =
21.5	Silty clay			
22.0	Fine sand			
22.5	Fine sand			
23.0	Silty clay			
23.5	Silty clay			
24.0	Silty clay			
24.5	Silty clay			
25.0	Silty clay			
25.5	Trash			
26.0	Trash			
26.5	Trash			
27.0	Trash			
27.5	Trash			
28.0	Trash			
28.5	Silty clay mix			
29.0	Silty clay mix			
29.5	Trash	0.691 =	9.25 =	1.16 =
30.0	Trash			

Borehole Number:SEAARC2003 (continued)

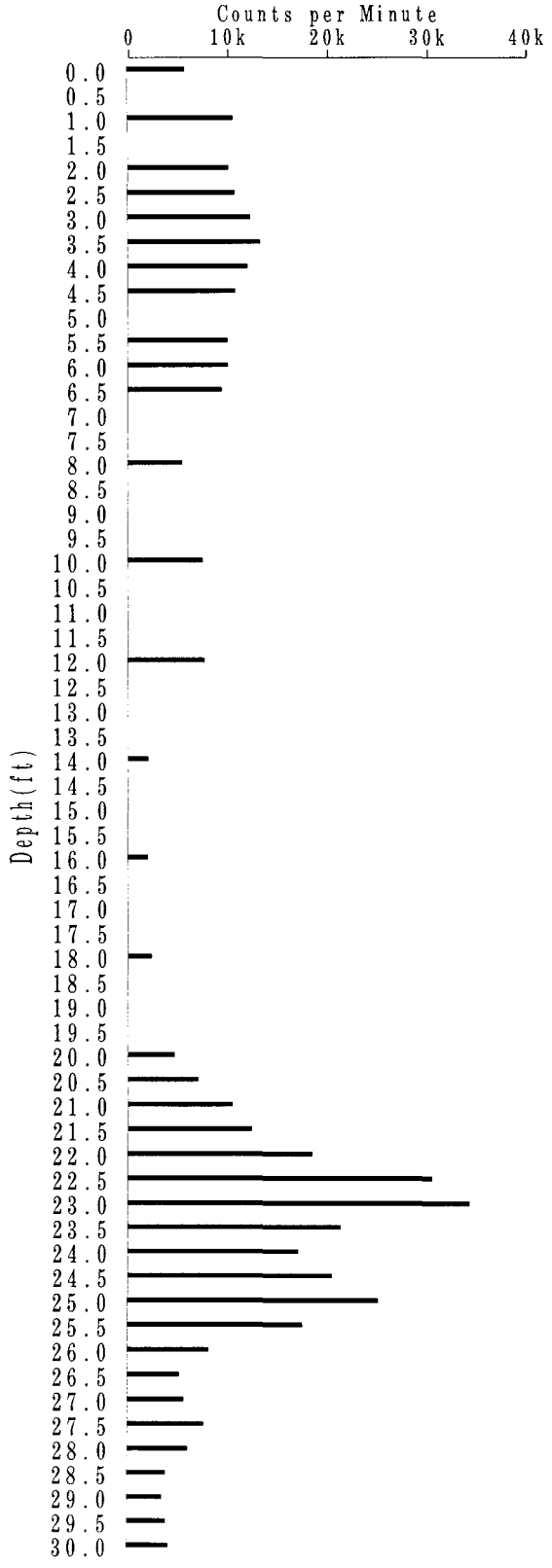
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
30.5	Trash			
31.0	Trash			
31.5	Trash			
32.0	Trash	1.3 =	14.9 =	1.71 =
32.5	Trash			
33.0	Trash			
33.5	Trash mix with silty clay			
34.0	Trash mix with silty clay			
34.5	Trash	0.67 =	-4.44 UJ	0.593 U
35.0	Trash			
35.5	Trash mix with silty clay			
36.0	Trash mix with silty clay			
36.5	Trash mix with silty clay			
37.0	Trash mix with silty clay			
37.5	Trash			
38.0	Trash			
38.5	Trash			
39.0	Trash			
39.5	Trash			
40.0	Trash			
40.5	No log			
41.0	No log			
41.5	No log			

Borehole Number: SEAARC2004

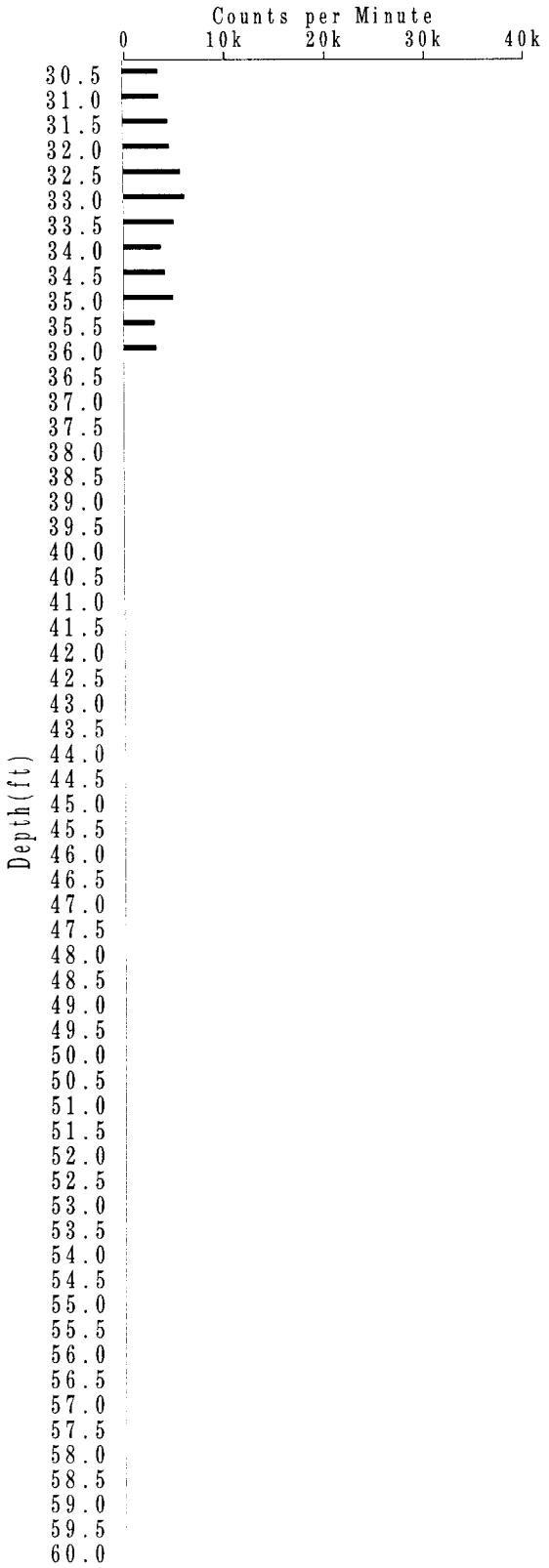
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
0.0	No log			
0.5	No log			
1.0	No log			
1.5	No log			
2.0	No log			
2.5	No log			
3.0	No log			
3.5	No log			
4.0	No log	0.772 =	-3.18 UJ	0.921 U
4.5	No log			
5.0	No log			
5.5	No log			
6.0	No log			
6.5	No log			
7.0	No log			
7.5	No log			
8.0	No log			
8.5	No log			
9.0	No log			
9.5	No log			
10.0	No log			
10.5	No log			
11.0	No log			
11.5	No log			
12.0	No log			
12.5	No log			
13.0	No log			
13.5	No log			
14.0	No log			
14.5	No log			
15.0	No log			
15.5	No log			
16.0	No log			
16.5	No log			
17.0	No log			
17.5	No log			
18.0	No log			
18.5	No log			
19.0	No log			
19.5	No log			
20.0	No log			
20.5	No log	0.638 =	-2.97 UJ	0.662 U
21.0	No log			
21.5	No log			
22.0	No log	1.69 =	39.2 =	3.02 J
22.5	No log			
23.0	No log	5.02 =	142 =	6.71 J
23.5	No log			
24.0	No log			
24.5	No log	1.49 =	46.8 =	3.98 J
25.0	No log	4.22 =	133 =	11.6 J
25.5	No log			
26.0	No log			
26.5	No log			
27.0	No log			
27.5	No log	0.824 =	6.04 U	1.03 J
28.0	No log			
28.5	No log			
29.0	No log			
29.5	No log			
30.0	No log			

Borehole Number:SEAARC2004 (continued)

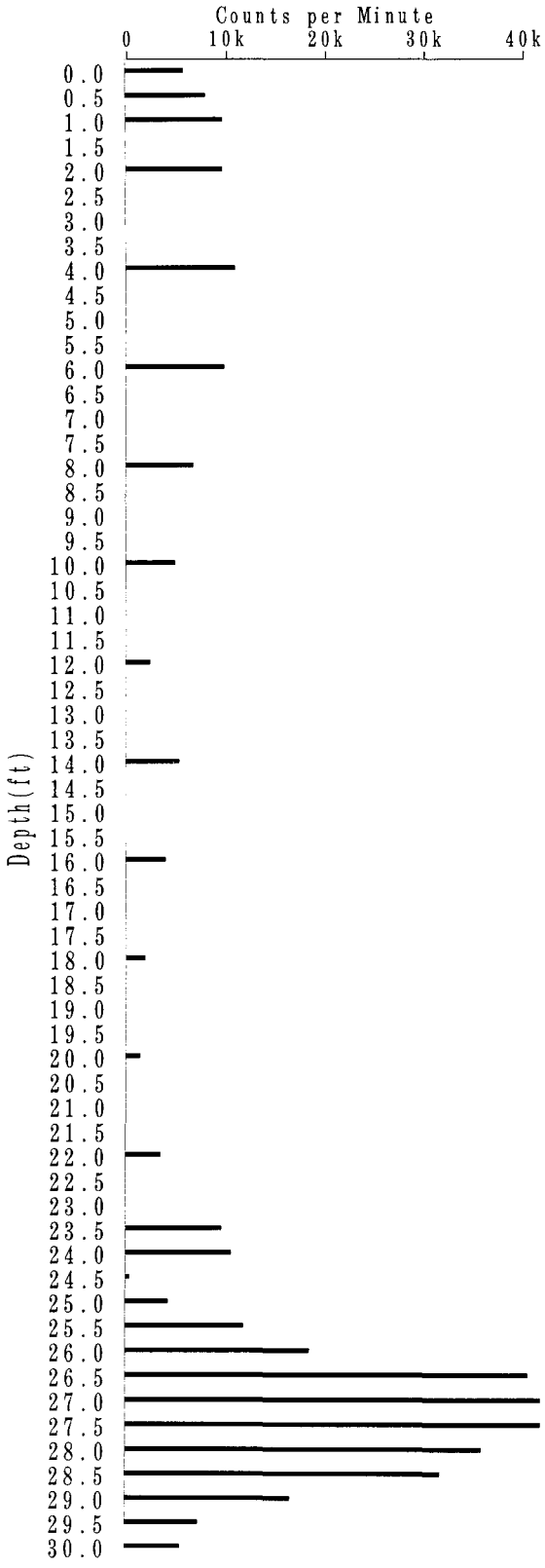
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



	Description	pCi/g Ra-226	Th-230	U-238
30.5	No log			
31.0	No log			
31.5	No log			
32.0	No log			
32.5	No log			
33.0	No log	1.2 =	28.1 =	2.92 J
33.5	No log			
34.0	No log			
34.5	No log			
35.0	No log			
35.5	No log			
36.0	No log			

Borehole Number: SEAARC2005

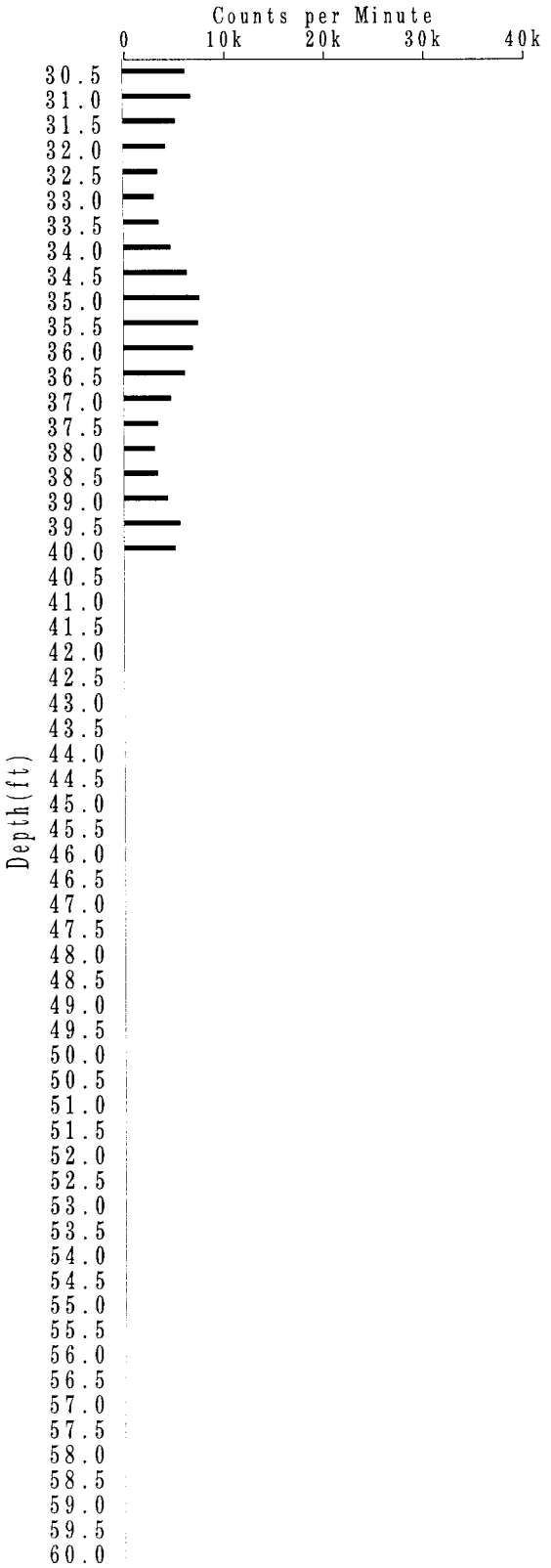
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
			pCi/g	
0.0	No log			
0.5	No log			
1.0	No log			
1.5	No log			
2.0	No log			
2.5	No log			
3.0	No log			
3.5	No log			
4.0	No log			
4.5	No log			
5.0	No log			
5.5	No log			
6.0	No log			
6.5	No log			
7.0	No log			
7.5	No log			
8.0	No log			
8.5	No log			
9.0	No log			
9.5	No log			
10.0	No log			
10.5	No log			
11.0	No log			
11.5	No log			
12.0	No log			
12.5	No log			
13.0	No log			
13.5	No log			
14.0	No log			
14.5	No log			
15.0	No log			
15.5	No log			
16.0	No log			
16.5	No log			
17.0	No log			
17.5	No log			
18.0	No log			
18.5	No log			
19.0	No log			
19.5	No log			
20.0	No log			
20.5	No log			
21.0	No log			
21.5	No log			
22.0	No log			
22.5	No log			
23.0	No log			
23.5	No log			
24.0	No log	1.08 U	16.3 =	1.92 =
24.5	No log			
25.0	No log			
25.5	No log			
26.0	No log	1.48 =	28.5 =	3.3 =
26.5	No log			
27.0	No log	14.4 =	547 =	31.3 =
27.5	No log			
28.0	No log			
28.5	No log			
29.0	No log	3.51 =	63.1 =	4.39 =
29.5	No log			
30.0	No log			

Borehole Number:SEAARC2005 (continued)

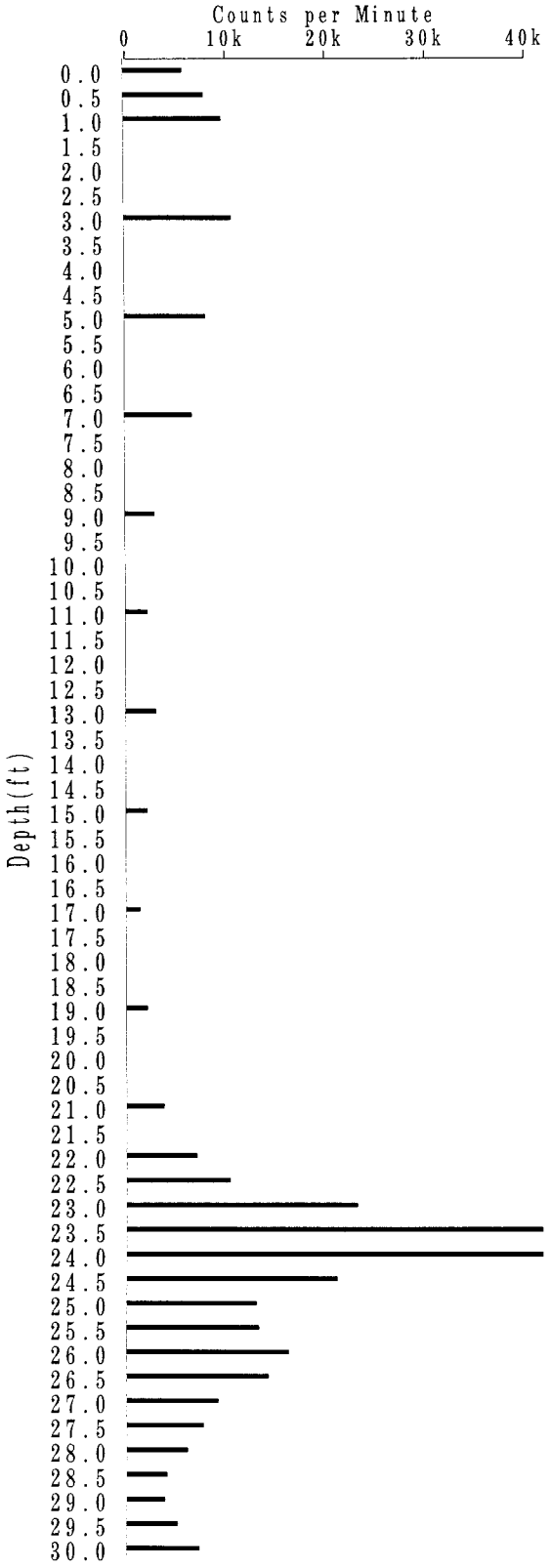
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			
No log			

Borehole Number: SEAARC2006

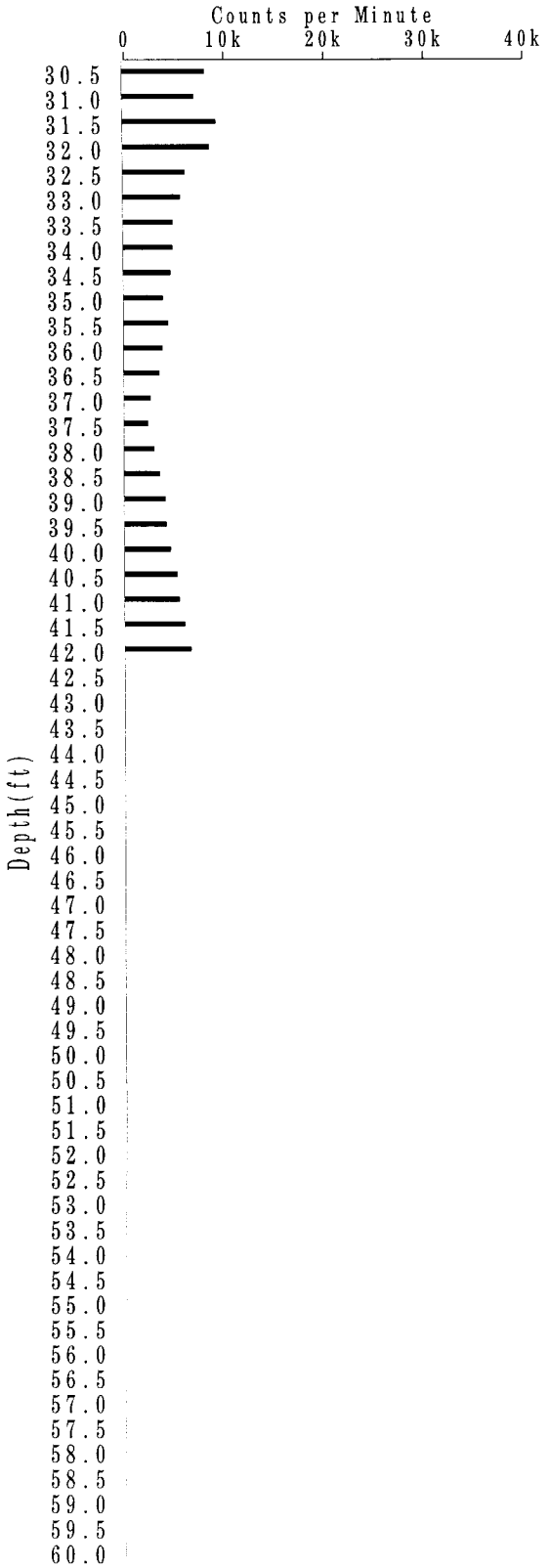
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Silty clay			
3.0	Silty clay			
3.5	Silty clay			
4.0	Silty clay			
4.5	Silty clay			
5.0	Silty clay			
5.5	Silty clay mix			
6.0	Silty clay mix			
6.5	Silty clay mix			
7.0	Silty clay mix			
7.5	Trash			
8.0	Trash			
8.5	Trash			
9.0	Trash			
9.5	Trash			
10.0	Trash			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Trash			
19.5	Trash			
20.0	Trash			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash			
22.5	Silty clay	0.593 =	8.17 =	1.39 =
23.0	Silty clay			
23.5	Silty clay	12.2 =	529 =	34 J
24.0	Silty clay	12.4 =	525 =	33.5 =
24.5	Trash			
25.0	Trash			
25.5	Trash			
26.0	Trash			
26.5	Trash	1.36 =	53 =	3.69 =
27.0	Trash			
27.5	Trash			
28.0	Trash			
28.5	Silty clay trash mix			
29.0	Silty clay trash mix			
29.5	Silty clay trash mix			
30.0	Silty clay trash mix			

Borehole Number:SEAARC2006 (continued)

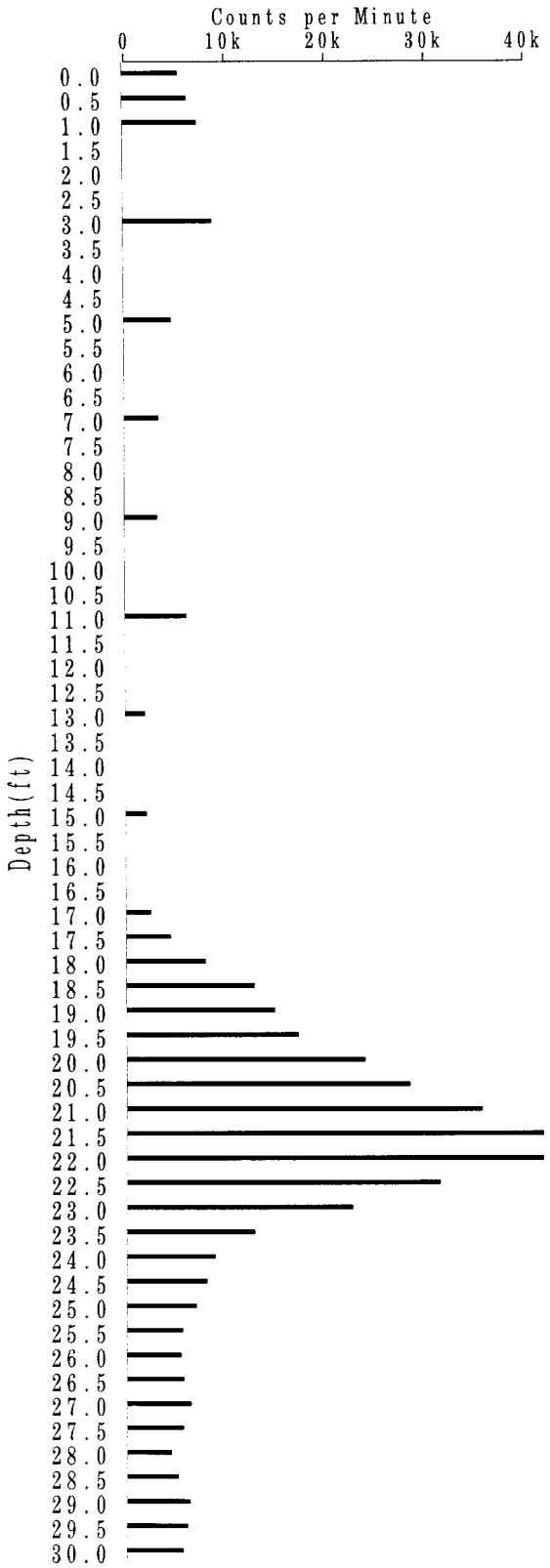
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	pCi/g Ra-226	Th-230	U-238
30.5	Silty clay trash mix			
31.0	Silty clay trash mix			
31.5	Silty clay trash mix	0.559 =	0.0339 U	0.588 U
32.0	Trash			
32.5	Trash			
33.0	Trash			
33.5	Trash			
34.0	Trash			
34.5	Silty clay fill mix			
35.0	Silty clay fill mix			
35.5	Silty clay fill mix			
36.0	Trash			
36.5	Trash			
37.0	Trash			
37.5	Trash			
38.0	Trash			
38.5	Trash			
39.0	Trash			
39.5	Trash			
40.0	Trash			
40.5	No log			
41.0	No log			
41.5	No log			
42.0	No log			

Borehole Number: SEAARC2007

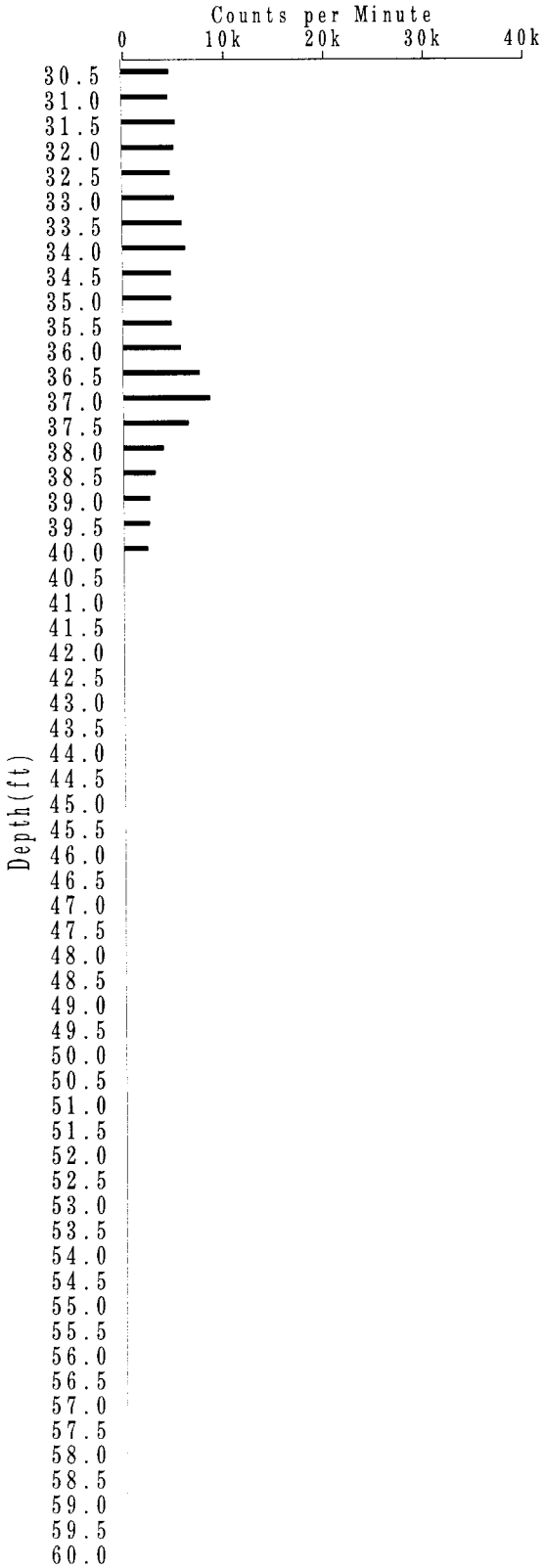
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay gravel mix			
2.5	Silty clay gravel mix			
3.0	Silty clay gravel mix			
3.5	Silty clay gravel mix			
4.0	Trash			
4.5	Trash			
5.0	Trash			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay mix			
11.0	Silty clay mix			
11.5	Silty clay mix			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Silty clay			
18.0	Silty clay			
18.5	Silty clay	2.46 =	96.2 =	5.93 =
19.0	Trash			
19.5	Trash			
20.0	Trash	1.86 =	31 =	2.97 =
20.5	Silty clay trash mix			
21.0	Silty clay trash mix			
21.5	Silty clay trash mix	6.16 =	198 =	17.5 =
22.0	Silty clay trash mix			
22.5	Silty clay trash mix			
23.0	Silty clay trash mix			
23.5	Silty clay trash mix	0.848 =	11 U	1.79 =
24.0	Silty clay trash mix			
24.5	Silty clay trash mix			
25.0	Silty clay trash mix			
25.5	Silty clay trash mix			
26.0	Trash			
26.5	Trash			
27.0	Trash			
27.5	Trash			
28.0	Trash			
28.5	Silty clay			
29.0	Trash			
29.5	Trash			
30.0	Trash			

Borehole Number:SEAARC2007 (continued)

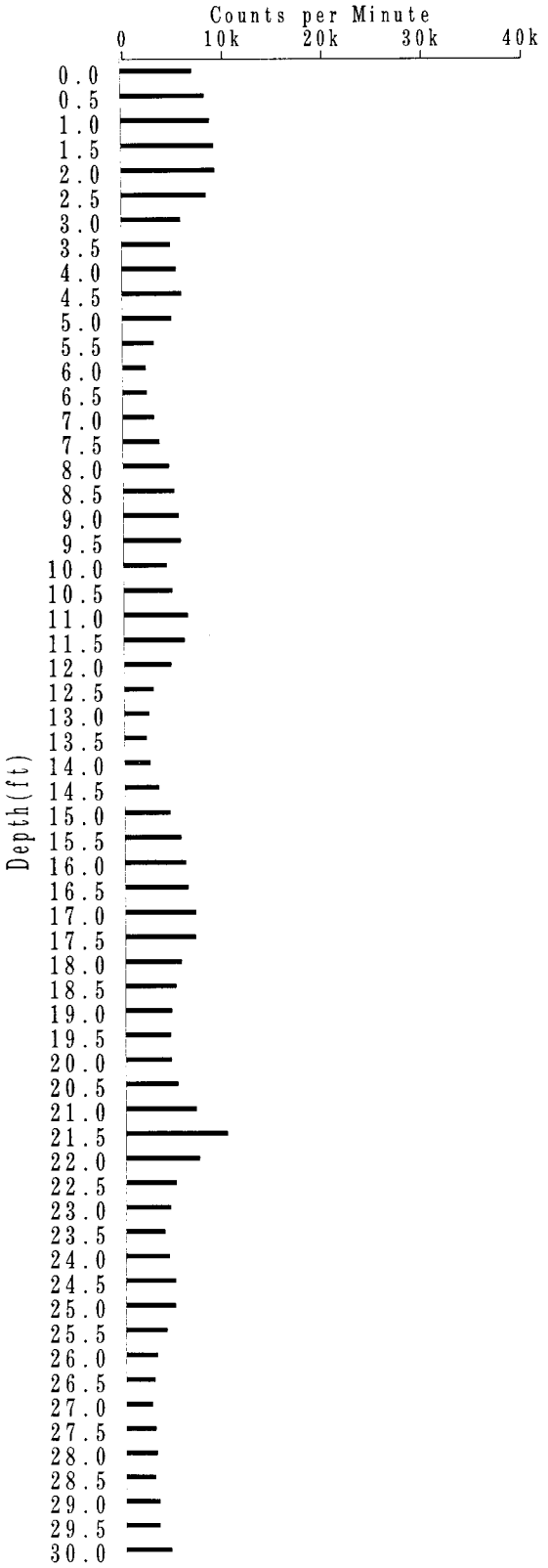
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Silt			
Silt			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Silty clay gravel mix			
Trash			
Trash			
Trash			

Borehole Number: SEAARC2008

Down-hole Gamma, Geological Logs, and BEGe Results with Depth

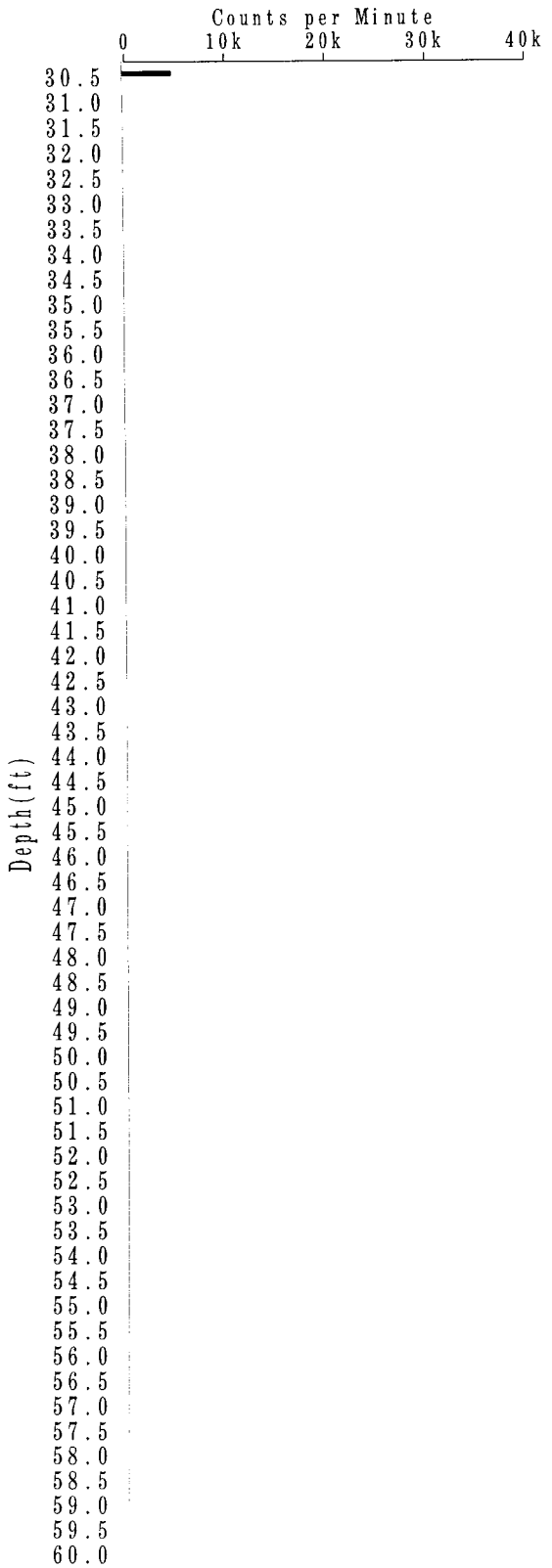


Depth (ft)	Description	Ra-226	Th-230	U-238
0.0	Silty clay fill			
0.5	Silty clay fill			
1.0	Silty clay fill			
1.5	Silty clay fill			
2.0	Silty clay fill			
2.5	Silty clay fill			
3.0	Silty clay fill			
3.5	Silty clay fill			
4.0	Trash			
4.5	Trash			
5.0	Trash			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	Trash			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Trash			
11.0	Silty clay fill mix			
11.5	Silty clay fill mix			
12.0	Silty clay fill mix			
12.5	Silty clay fill mix			
13.0	Silty clay fill mix			
13.5	Silty clay fill mix			
14.0	Silty clay fill mix			
14.5	Trash			
15.0	Trash			
15.5	Silty clay			
16.0	Silty clay			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	No recovery			
19.0	No recovery			
19.5	No recovery			
20.0	No recovery			
20.5	Silty clay fill			
21.0	Silty clay fill			
21.5	Silty clay fill	0.449 =	-0.567 UJ	0.693 U
22.0	Silt, ash			
22.5	Silt, ash			
23.0	Silt, ash			
23.5	Silt, ash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Silt, ash			
26.0	Silt, ash			
26.5	Silt, ash			
27.0	Silt, ash			
27.5	Trash			
28.0	Trash			
28.5	Trash			
29.0	Trash			
29.5	Trash			
30.0	Trash			

pCi/g

Borehole Number:SEAARC2008 (continued)

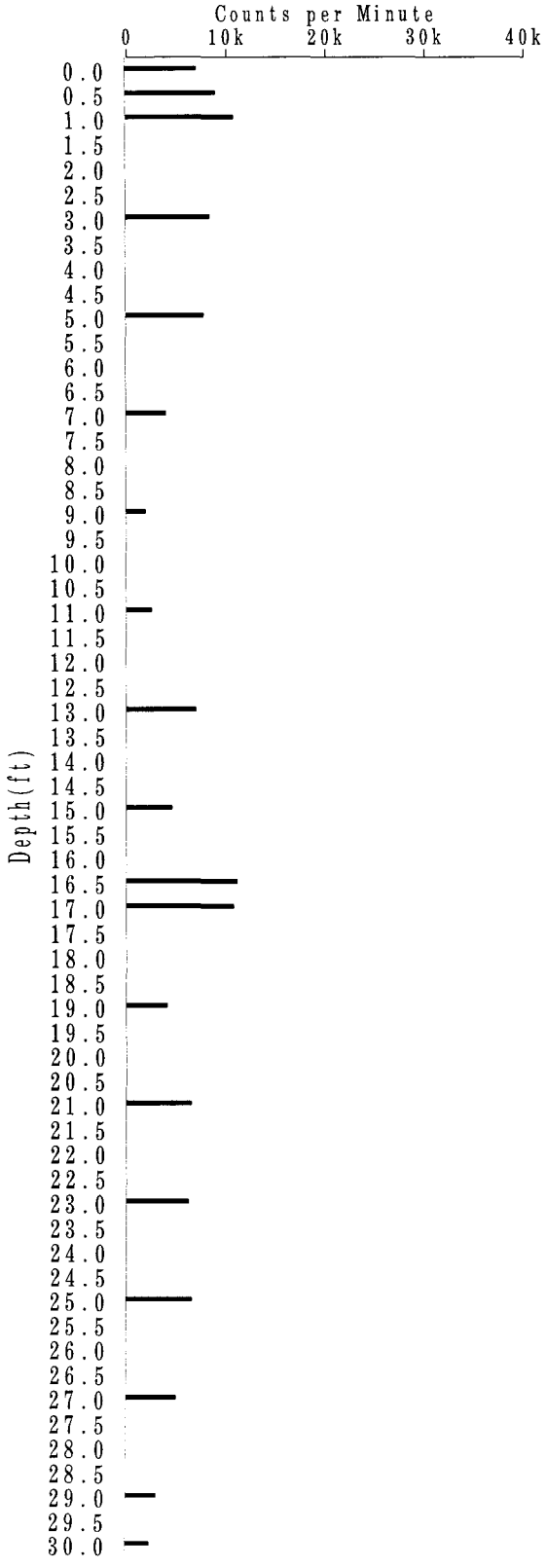
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			

Borehole Number: SEAARC2009

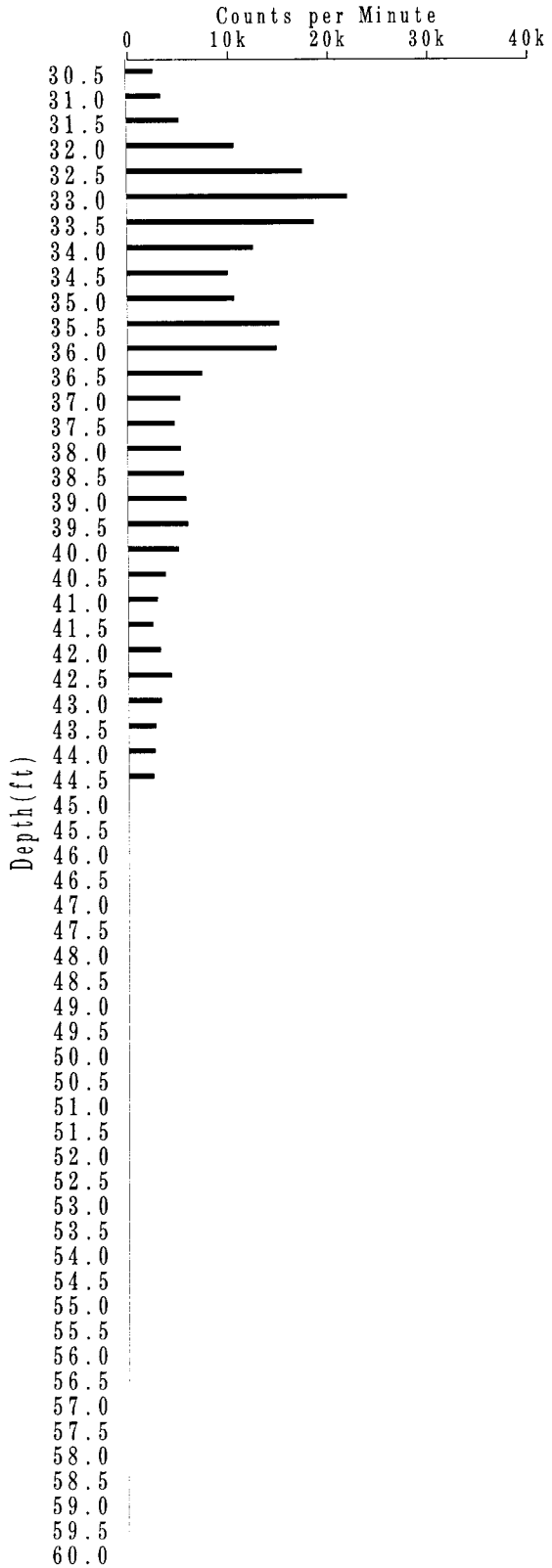
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay fill mix			
2.5	Silty clay fill mix			
3.0	Silty clay fill mix			
3.5	Silty clay fill mix			
4.0	Silty clay fill mix			
4.5	Trash			
5.0	Trash			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	No recovery			
15.5	No recovery			
16.0	No recovery			
16.5	No recovery			
17.0	No recovery			
17.5	No recovery			
18.0	No recovery			
18.5	No recovery			
19.0	No recovery			
19.5	No recovery			
20.0	No recovery			
20.5	Silty clay			
21.0	Silty clay			
21.5	Silty clay/trash/fill			
22.0	Silty clay/trash/fill			
22.5	Silty clay/trash/fill			
23.0	Silty clay/trash/fill			
23.5	Silty clay/trash/fill			
24.0	Silty clay/trash/fill			
24.5	Silty clay/trash/fill			
25.0	Silty clay/trash/fill			
25.5	Silty clay/trash/fill			
26.0	Silty clay/trash/fill			
26.5	Silty clay/trash/fill			
27.0	Silty clay/trash/fill			
27.5	Silty clay/trash/fill			
28.0	Silty clay/trash/fill			
28.5	Silty clay/trash/fill			
29.0	Silty clay/trash/fill			
29.5	Trash			
30.0	Trash			

Borehole Number:SEAARC2009 (continued)

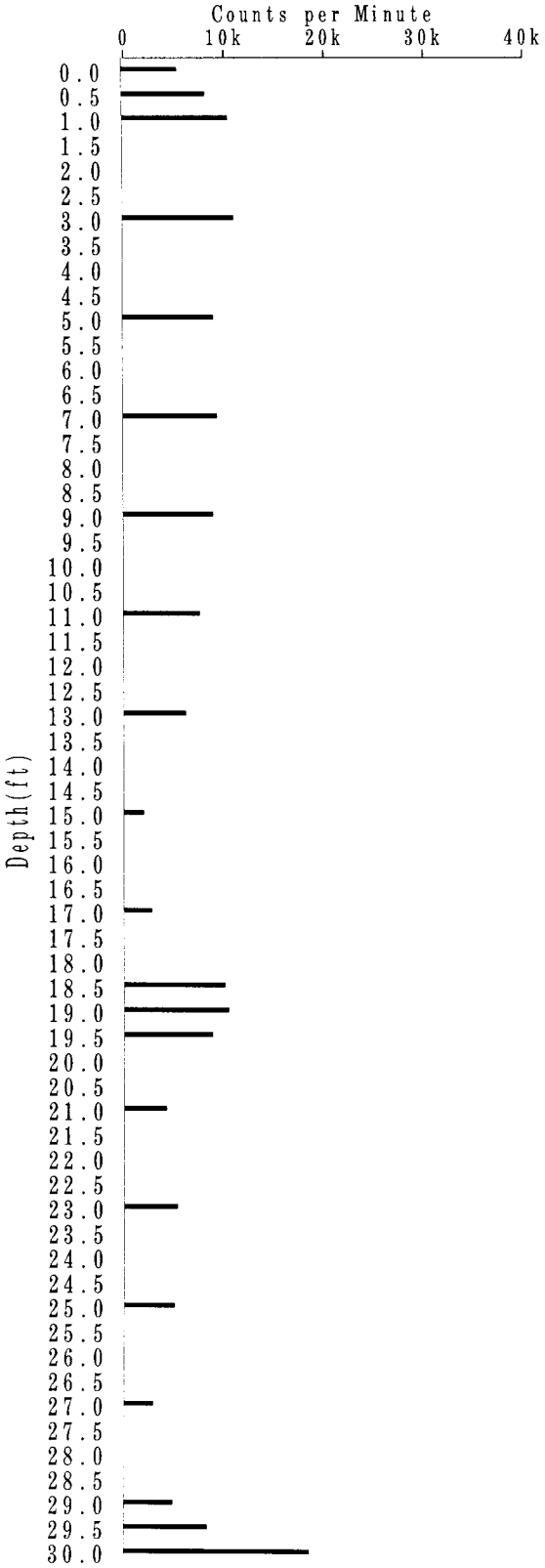
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			
Trash			
Trash			
Trash			
Silty clay trash mix	3.27 =	89.9 =	6.5 =
Silty clay trash mix	2.72 =	80.4 =	6.86 =
Silty clay trash mix			
Silty clay trash mix			
Trash			
Trash			
Trash			
Silty clay/trash/fill	5.57 =	172 =	13.1 =
Silty clay/trash/fill			
Trash	1.24 =	19.9 =	1.94 =
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Silty clay fill mix			
Silty clay fill mix			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			

Borehole Number: SEAARC2010

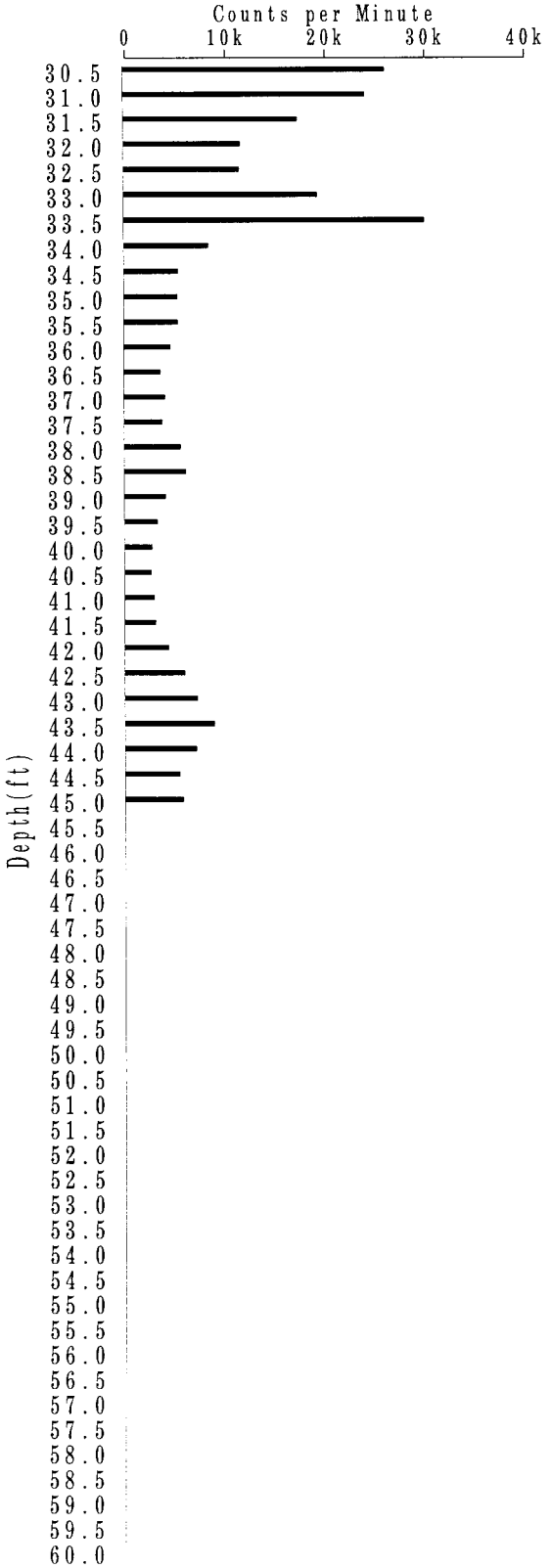
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Silty clay			
3.0	Silty clay			
3.5	Silty clay			
4.0	Silty clay			
4.5	Silty clay			
5.0	Silty clay			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay trash fill mix			
11.0	Silty clay trash fill mix			
11.5	Silty clay trash fill mix			
12.0	Silty clay trash fill mix			
12.5	Silty clay			
13.0	Silty clay			
13.5	Silty clay			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	No recovery			
19.0	No recovery			
19.5	No recovery			
20.0	No recovery			
20.5	Silty clay fill mix			
21.0	Silty clay fill mix			
21.5	Trash			
22.0	Trash			
22.5	Silty clay			
23.0	Silty clay			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Silt			
25.5	Silt			
26.0	Silt			
26.5	Silt			
27.0	Silt			
27.5	Silty clay fill mix			
28.0	Silty clay fill mix			
28.5	Trash			
29.0	Trash			
29.5	Trash			
30.0	Trash			

Borehole Number:SEAARC2010 (continued)

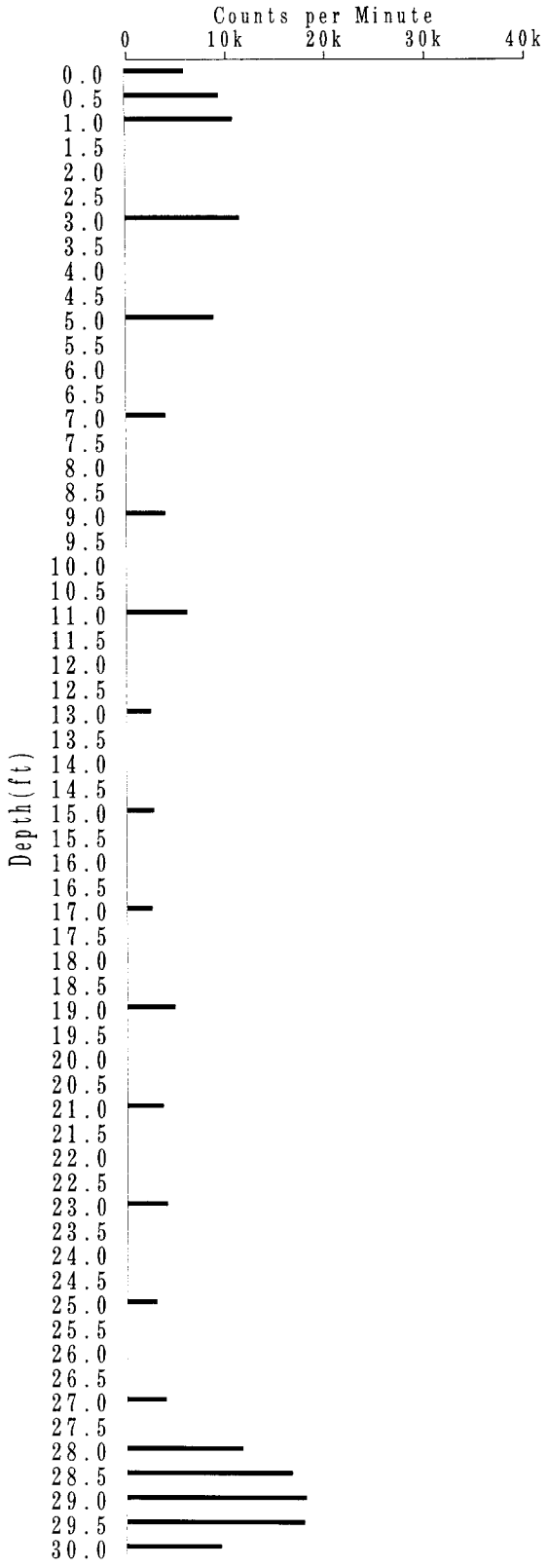
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



	Description	Ra-226	pCi/g Th-230	U-238
30.5	Silty clay	1.65 =	59.4 =	3.46 =
31.0	Silty clay			
31.5	Silty clay			
32.0	Trash			
32.5	Trash	0.704 =	11.9 U	0.698 U
33.0	Trash			
33.5	Trash	8.05 =	400 =	26.5 =
34.0	Trash			
34.5	Trash			
35.0	Trash			
35.5	Silty clay fill mix			
36.0	Silty clay fill mix			
36.5	Silty clay fill mix			
37.0	Trash			
37.5	Trash			
38.0	Trash			
38.5	Trash			
39.0	Trash			
39.5	Silty clay			
40.0	Trash			
40.5	Trash			
41.0	Trash			
41.5	Trash			
42.0	Silty clay trash fill mix			
42.5	Silty clay trash fill mix			
43.0	Trash			
43.5	Silty clay trash fill mix			
44.0	Silty clay trash fill mix			
44.5	Silty clay trash fill mix			
45.0	Trash			

Borehole Number: SEAARC2011

Down-hole Gamma, Geological Logs, and BEGe Results with Depth

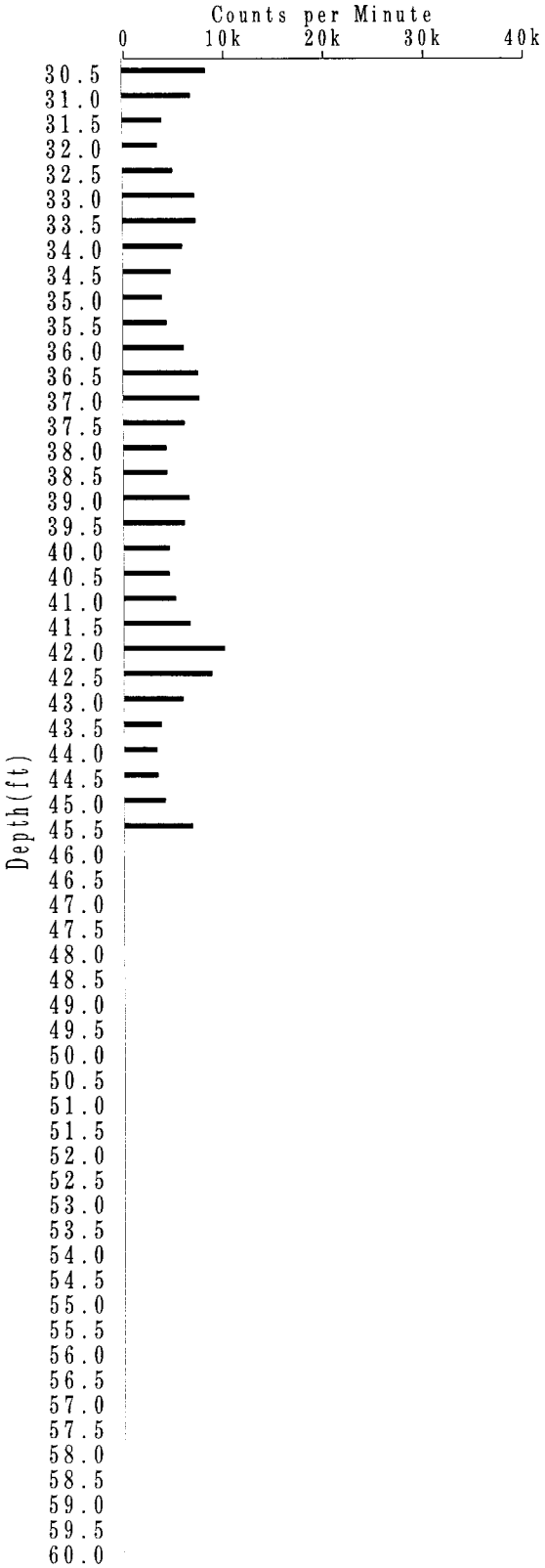


Depth (ft)	Description	Ra-226	Th-230	U-238
0.0	Silty clay/loam clay			
0.5	Silty clay/loam clay			
1.0	Silty clay/loam clay			
1.5	Silty clay/loam clay			
2.0	Silty clay/loam clay			
2.5	Silty clay/loam clay			
3.0	Silty clay/loam clay			
3.5	Silty clay/loam clay			
4.0	Silty clay fill mix			
4.5	No recovery			
5.0	Trash			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Silty clay fill mix			
7.5	Silty clay fill mix			
8.0	Silty clay fill mix			
8.5	Silty clay fill mix			
9.0	Trash			
9.5	Trash			
10.0	Trash			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	No recovery			
15.5	No recovery			
16.0	No recovery			
16.5	No recovery			
17.0	No recovery			
17.5	No recovery			
18.0	No recovery			
18.5	No recovery			
19.0	No recovery			
19.5	No recovery			
20.0	No recovery			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Trash			
26.0	Trash			
26.5	Trash			
27.0	Trash			
27.5	Yellow material	0.124 U	7.62 U	0.319 U
28.0	No recovery			
28.5	No recovery			
29.0	No recovery			
29.5	No recovery			
30.0	No recovery			

pCi/g

Borehole Number:SEAARC2011 (continued)

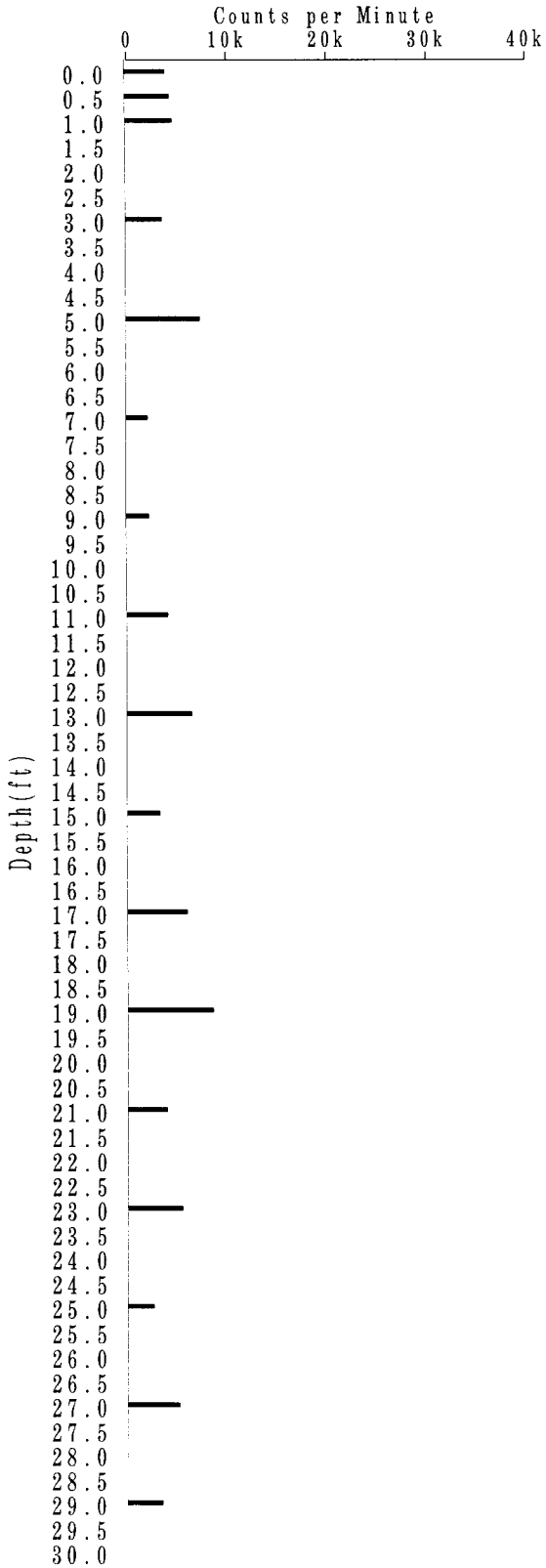
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
			pCi/g	
30.5	Trash			
31.0	Trash			
31.5	Trash			
32.0	Trash			
32.5	Trash			
33.0	Trash			
33.5	Trash			
34.0	Trash			
34.5	Silty clay fill mix			
35.0	Silty clay fill mix			
35.5	Trash			
36.0	Trash			
36.5	Trash			
37.0	Trash			
37.5	Silty clay trash mix			
38.0	Silty clay trash mix			
38.5	Silty clay trash mix			
39.0	Trash			
39.5	Silty clay trash mix			
40.0	Silty clay trash mix			
40.5	Trash			
41.0	Trash			
41.5	Trash			
42.0	Trash			
42.5	Silty clay			
43.0	Silty clay			
43.5	Trash			
44.0	Trash			
44.5	Trash			
45.0	Trash			
45.5	No log			

Borehole Number: SEAARC2012

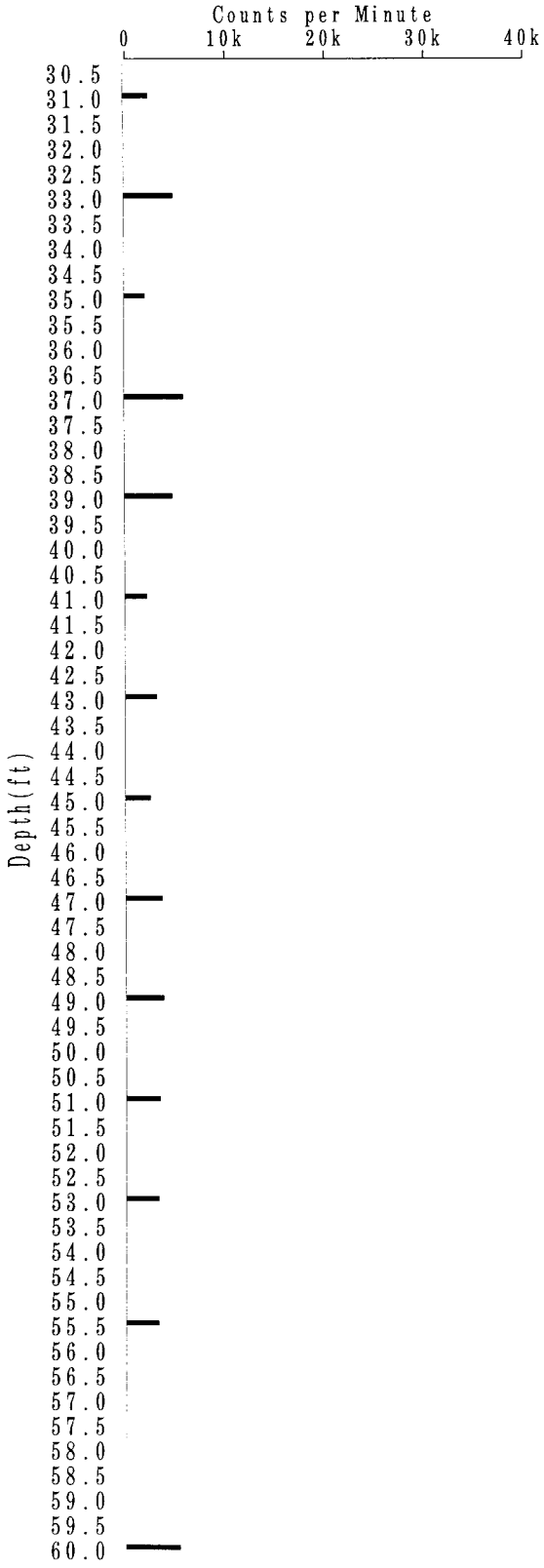
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silty loam			
Silty loam			
Silty loam			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash			
Trash			
Trash			
Silty clay			
Trash			
Trash			
Trash			
Silty clay			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			

Borehole Number:SEAARC2012 (continued)

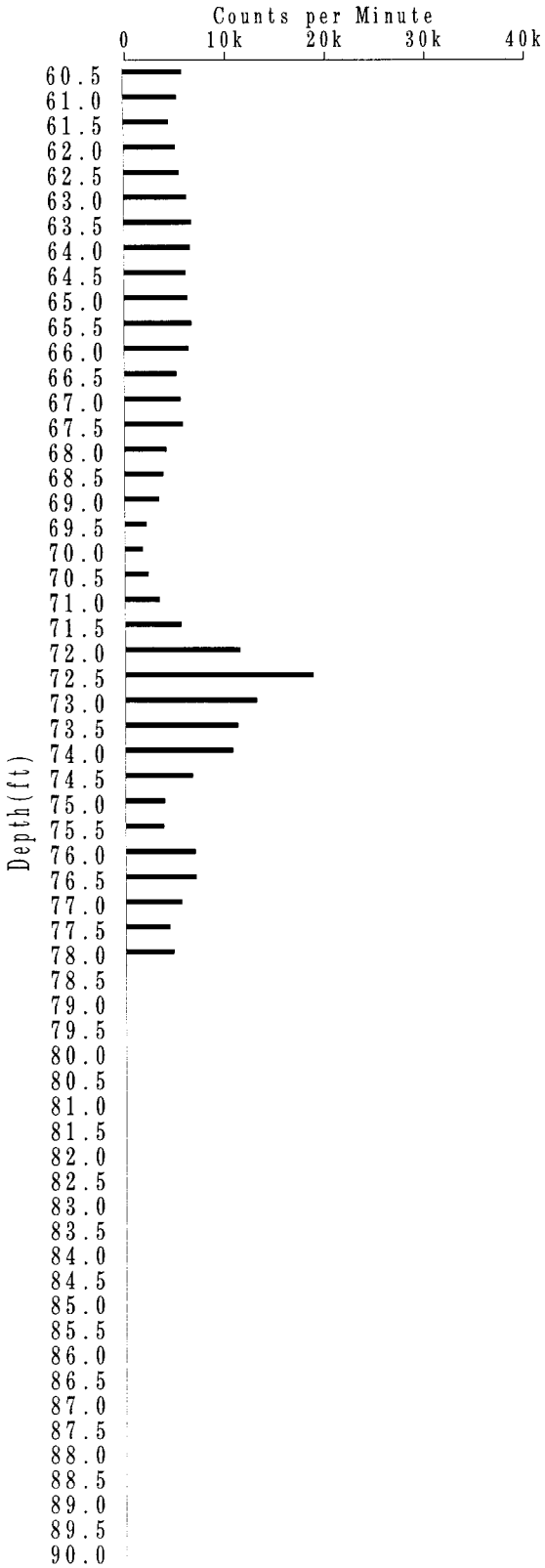
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
30.5	Silty gravel fill			
31.0	Silty gravel fill			
31.5	Silty gravel fill			
32.0	Silty gravel fill			
32.5	Trash			
33.0	Trash			
33.5	Trash			
34.0	Trash			
34.5	Trash			
35.0	Trash			
35.5	Trash			
36.0	Trash			
36.5	Trash			
37.0	Trash			
37.5	Silty clay			
38.0	Silty clay			
38.5	Trash			
39.0	Trash			
39.5	Trash			
40.0	Trash			
40.5	Silt			
41.0	Silt			
41.5	Trash			
42.0	Trash			
42.5	Trash			
43.0	Trash			
43.5	Trash			
44.0	Trash			
44.5	Trash			
45.0	Trash			
45.5	Trash			
46.0	No recovery			
46.5	No recovery			
47.0	No recovery			
47.5	No recovery			
48.0	No recovery			
48.5	No recovery			
49.0	No recovery			
49.5	No recovery			
50.0	No recovery			
50.5	Trash			
51.0	Trash			
51.5	Trash			
52.0	Trash			
52.5	Trash			
53.0	Trash			
53.5	Trash			
54.0	Trash			
54.5	Trash			
55.0	Trash			
55.5	Trash			
56.0	Trash			
56.5	Trash			
57.0	Trash			
57.5	Trash			
58.0	Trash			
58.5	Trash			
59.0	Trash			
59.5	Silty clay			
60.0	Silty clay			

Borehole Number:SEAARC2012 (continued)

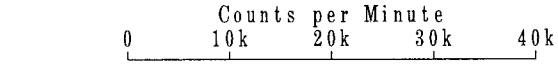
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	pCi/g Ra-226	Th-230	U-238
60.5	Silt			
61.0	Silt			
61.5	Silt			
62.0	Trash			
62.5	Trash			
63.0	Trash			
63.5	Silty clay			
64.0	Silty clay			
64.5	Silty clay			
65.0	Trash			
65.5	Trash			
66.0	Trash			
66.5	No recovery			
67.0	No recovery			
67.5	No recovery			
68.0	No recovery			
68.5	No recovery			
69.0	No recovery			
69.5	No recovery			
70.0	No recovery			
70.5	Trash			
71.0	Trash			
71.5	Trash			
72.0	Trash			
72.5	Trash	2.47 =	69.7 =	4.44 =
73.0	Trash	1.2 =	6.81 U	1.92 =
73.5	Trash			
74.0	Trash			
74.5	Trash	0.487 =	-1 48 UJ	0.566 U
75.0	Trash			
75.5	Trash			
76.0	Trash			
76.5	Trash			
77.0	Trash			
77.5	Trash			
78.0	Trash			

Borehole Number: SEAARC2013

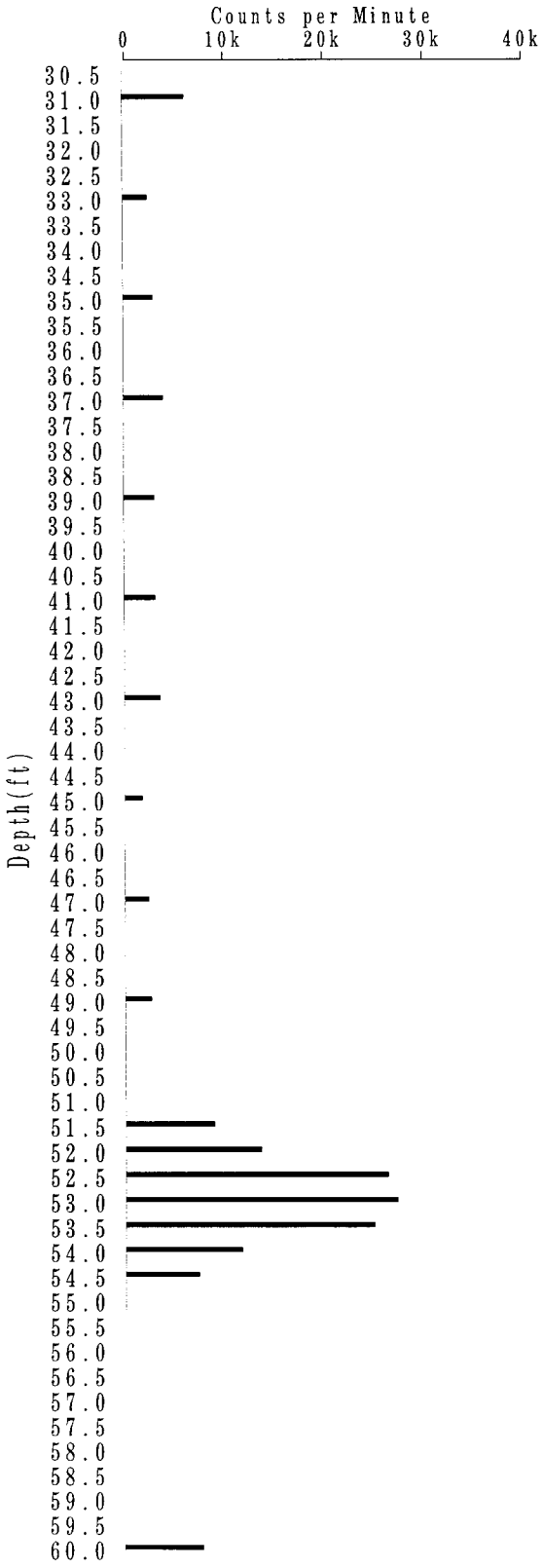
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	No recovery			
3.0	No recovery			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay trash mix			
11.0	Silty clay trash mix			
11.5	Silty clay trash mix			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Silty clay mix			
16.0	Silty clay mix			
16.5	Trash			
17.0	Trash			
17.5	Trash			
18.0	Trash			
18.5	Trash			
19.0	Trash			
19.5	No recovery			
20.0	No recovery			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Silty clay/gravel/trash			
24.0	Silty clay/gravel/trash			
24.5	Silty clay/gravel/trash			
25.0	Silty clay/gravel/trash			
25.5	Silty clay/gravel/trash			
26.0	Silty clay/gravel/trash			
26.5	Silty clay/gravel/trash			
27.0	Silty clay/gravel/trash			
27.5	Silty clay/gravel/trash			
28.0	Silty clay/gravel/trash			
28.5	Silty clay/gravel/trash			
29.0	Silty clay/gravel/trash			
29.5	Silty clay/gravel/trash			
30.0	Silty clay/gravel/trash			

Borehole Number:SEAARC2013 (continued)

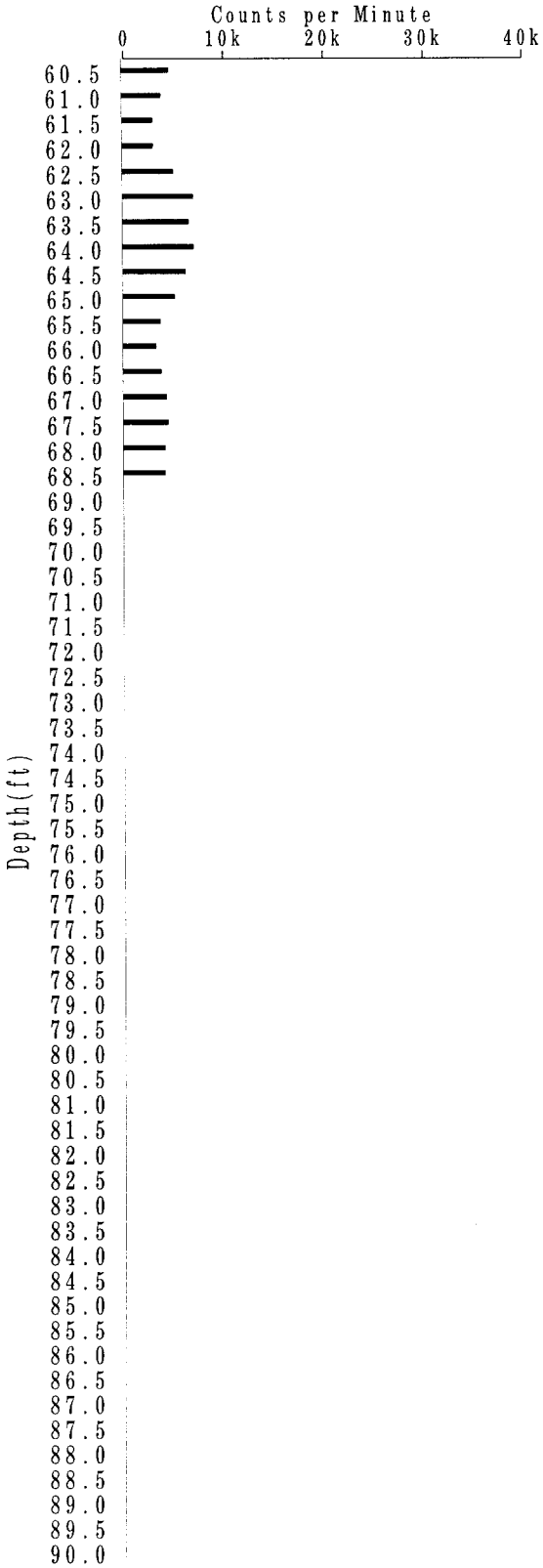
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
30.5	Silty clay/gravel/trash			
31.0	Silty clay/gravel/trash			
31.5	Trash			
32.0	Trash			
32.5	Trash			
33.0	Trash			
33.5	Silt/trash mix			
34.0	Silt/trash mix			
34.5	Silt/trash mix			
35.0	Silt/trash mix			
35.5	Silt/trash mix			
36.0	Silt/trash/red brick			
36.5	White powder			
37.0	Silty clay gravel fill mix			
37.5	Silty clay gravel fill mix			
38.0	Trash			
38.5	Trash			
39.0	Trash			
39.5	Trash			
40.0	Trash			
40.5	Trash			
41.0	Trash			
41.5	Trash			
42.0	Trash			
42.5	Trash			
43.0	Trash			
43.5	Trash			
44.0	Trash			
44.5	Trash			
45.0	Trash			
45.5	Trash			
46.0	Trash			
46.5	Trash			
47.0	Trash			
47.5	Trash			
48.0	Trash			
48.5	Trash			
49.0	Trash			
49.5	Plastic pellets, colored			
50.0	Trash			
50.5	Silty clay			
51.0	Silty clay			
51.5	Silty clay			
52.0	Silty clay	2.26 =	61.5 =	5.82 =
52.5	Plastic trash mix			
53.0	Silty clay	6.01 =	226 =	24.9 =
53.5	Trash			
54.0	Trash			
54.5	Silty clay mix			
55.0	Trash	2.08 =	67.3 =	9.28 =
55.5	Trash			
56.0	Trash			
56.5	Silty clay			
57.0	Silty clay			
57.5	No recovery			
58.0	No recovery			
58.5	No recovery			
59.0	No recovery			
59.5	No recovery			
60.0	No recovery			

Borehole Number:SEAARC2013 (continued)

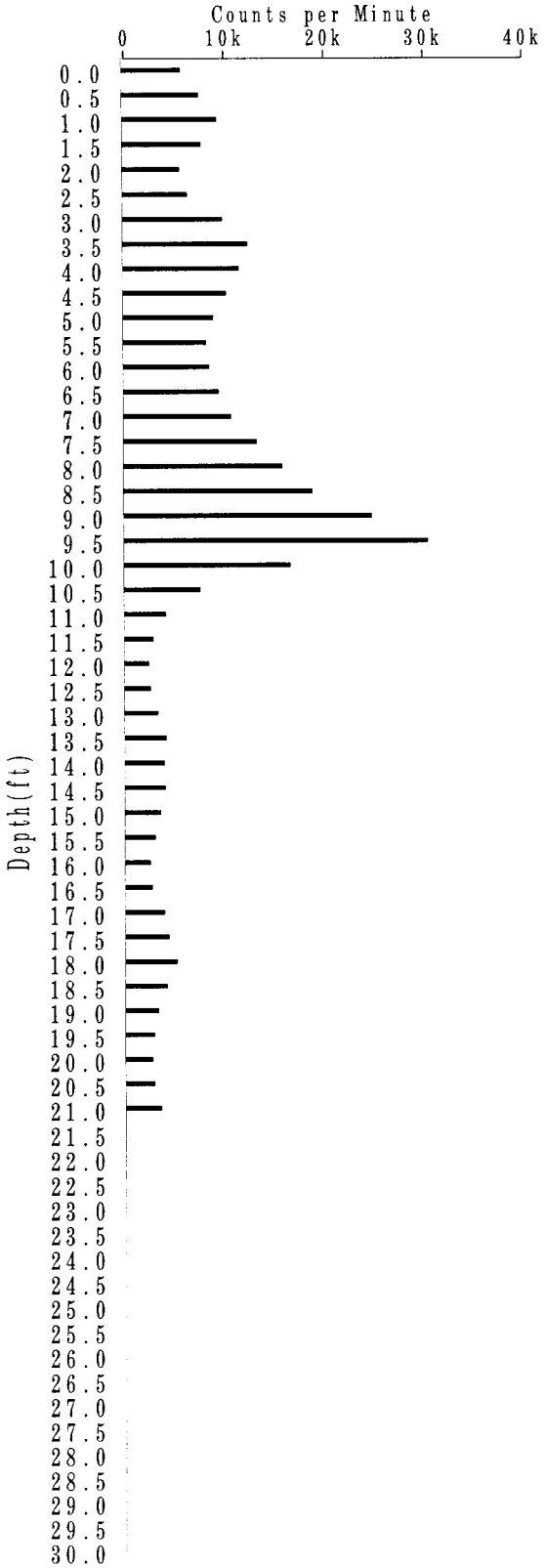
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			

Borehole Number: SEAARC2014

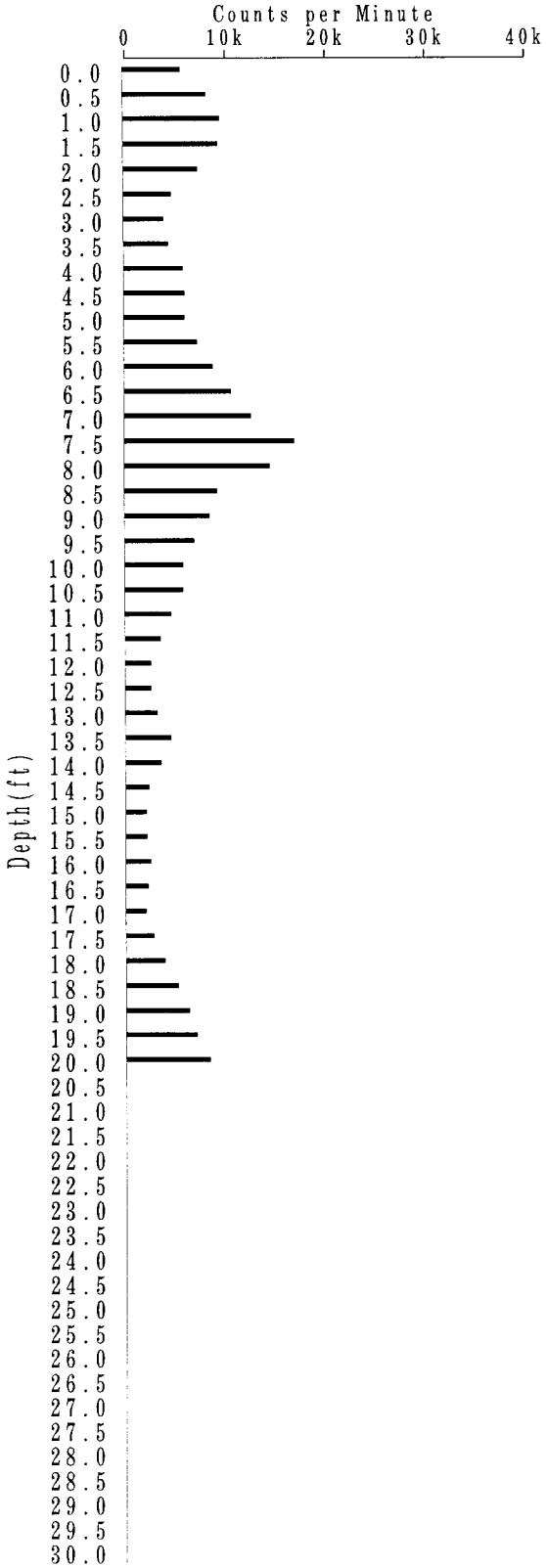
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay			
2.0	Silty clay			
2.5	Silty clay mix			
3.0	Silty clay mix			
3.5	Trash			
4.0	Trash			
4.5	No recovery			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery	3.06 =	66.1 =	6.46 =
10.0	No recovery			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash			
17.5	No recovery			
18.0	No recovery			
18.5	No recovery			
19.0	No recovery			
19.5	No recovery			
20.0	No recovery			
20.5	No log			
21.0	No log			

Borehole Number: SEAARC2015

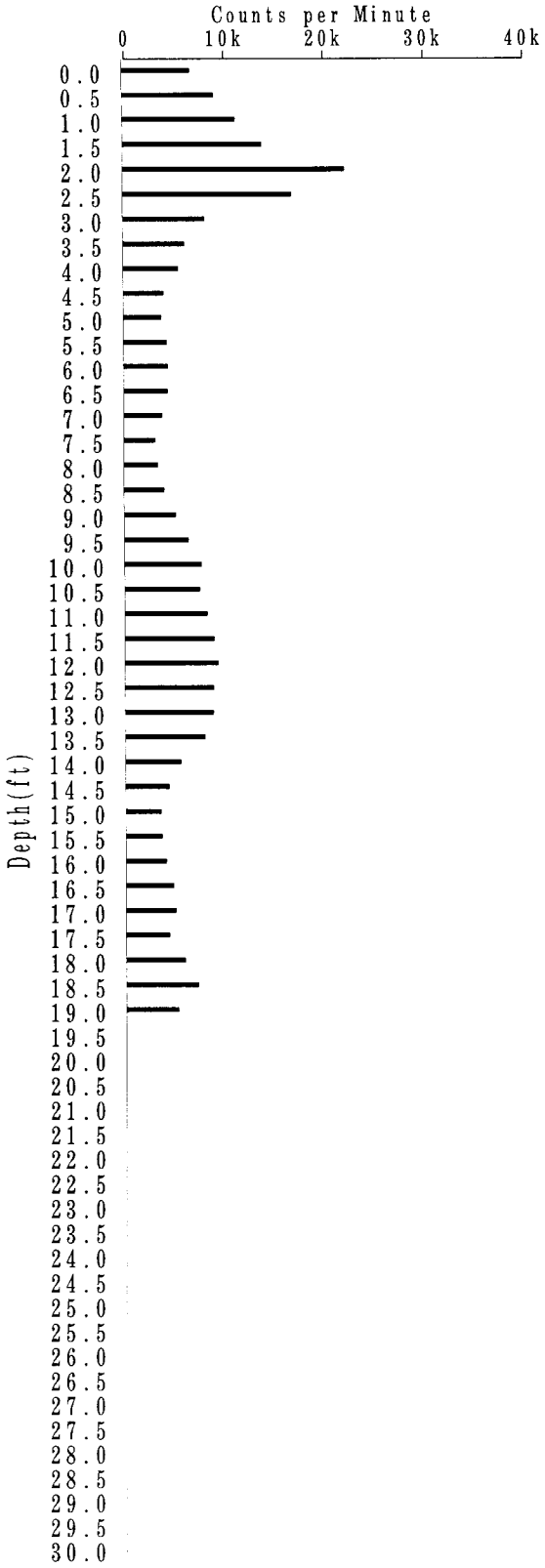
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Asphalt			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash	0.275 =	-7.81 UJ	0.639 =
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number: SEAARC2016

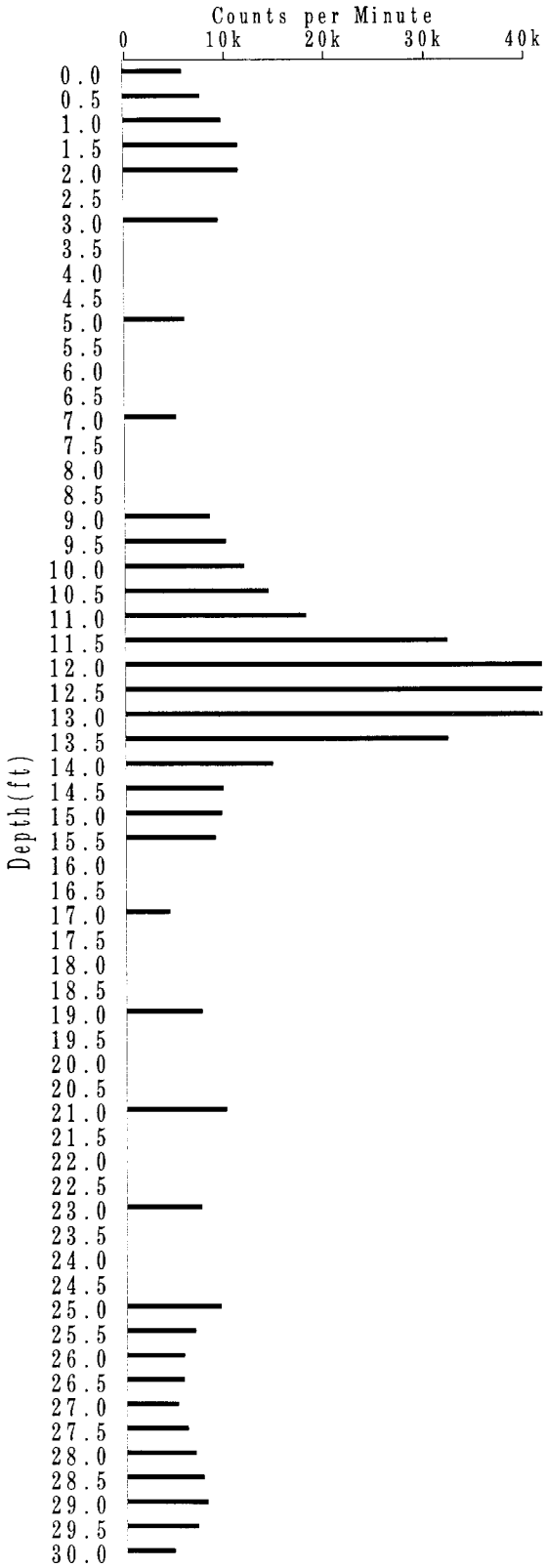
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay	0.796 =	2.83 U	1.23 =
1.5	Silty clay			
2.0	Silty clay			
2.5	Trash/mix fill rubble	1.09 =	-9.82 UJ	1.7 =
3.0	Trash/mix fill rubble	0.582 =	-11.7 UJ	0.706 U
3.5	Trash/mix fill rubble			
4.0	Silty clay			
4.5	Silty clay			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty fill mix			
11.0	Silty fill mix			
11.5	Silty clay mix			
12.0	Silty clay mix	0.572 =	1.38 U	0.899 =
12.5	Silty clay mix			
13.0	Silty clay mix			
13.5	Silty clay mix			
14.0	Silty clay mix			
14.5	Silty clay mix			
15.0	Silty clay mix			
15.5	Trash			
16.0	Trash			
16.5	No recovery			
17.0	No recovery			
17.5	No recovery			
18.0	No recovery			
18.5	No recovery			
19.0	No recovery			

Borehole Number: SEAARC2017

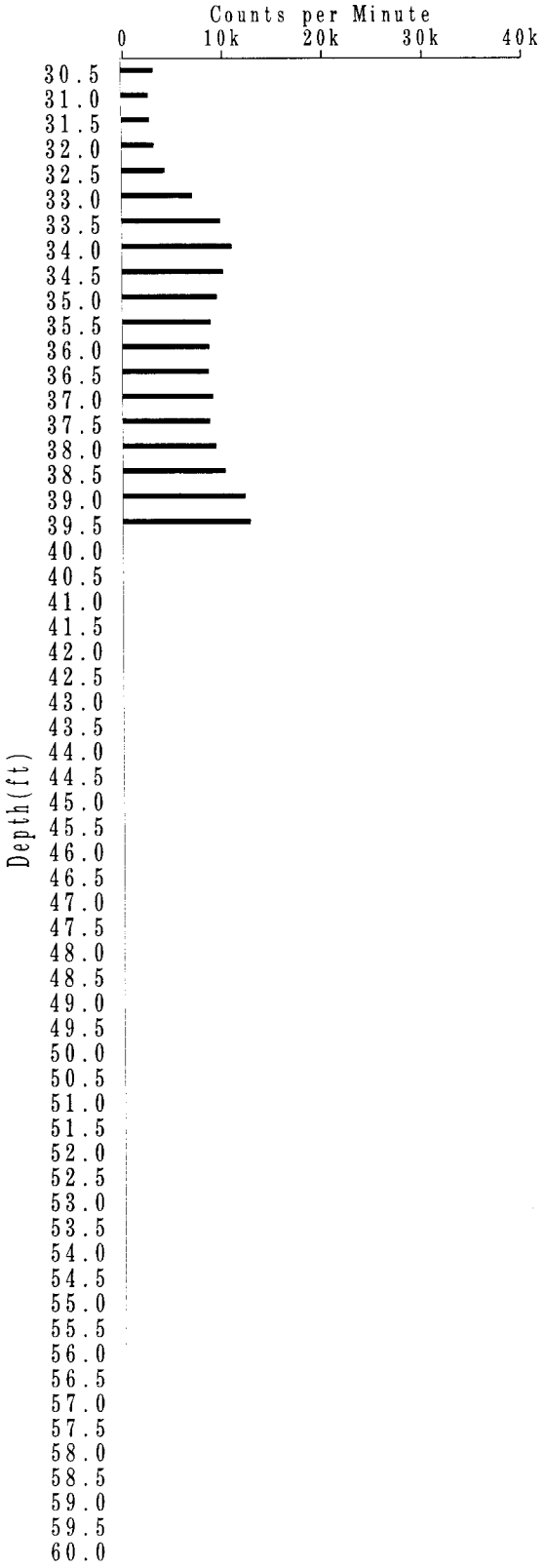
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay mix			
0.5	Silty clay mix			
1.0	Silty clay mix			
1.5	Silty clay mix			
2.0	Red brick/concrete/trash			
2.5	Red brick/concrete/trash			
3.0	Red brick/concrete/trash			
3.5	Red brick/concrete/trash			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	No recovery			
6.0	No recovery			
6.5	No recovery			
7.0	No recovery			
7.5	No recovery			
8.0	No recovery			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Silty clay mix	3.02 =	99 =	6.37 =
11.0	Silty clay mix			
11.5	Silty clay mix			
12.0	Silty clay mix			
12.5	Silty clay mix	7.94 =	292 =	20.4 =
13.0	Silty clay mix			
13.5	Silty clay mix			
14.0	Silty clay mix	3.59 =	160 =	12.1 =
14.5	Trash			
15.0	Trash			
15.5	Silty clay			
16.0	Silty clay			
16.5	Trash			
17.0	Trash			
17.5	Silty clay			
18.0	Silty clay			
18.5	Silty clay			
19.0	Silty clay			
19.5	Silty clay			
20.0	Silty clay			
20.5	Trash/wood/silty clay			
21.0	Trash/wood/silty clay			
21.5	Trash/wood/silty clay			
22.0	Trash/wood/silty clay			
22.5	Trash/wood/silty clay			
23.0	Trash/wood/silty clay			
23.5	Trash/wood/silty clay			
24.0	Trash/wood/silty clay			
24.5	Trash/wood/silty clay			
25.0	Trash/wood/silty clay			
25.5	Silty clay mix			
26.0	Silty clay mix			
26.5	Silty clay mix			
27.0	Silty clay mix			
27.5	Red brick/trash			
28.0	Red brick/trash			
28.5	Red brick/trash			
29.0	Red brick/trash			
29.5	Red brick			
30.0	Red brick			

Borehole Number:SEAARC2017 (continued)

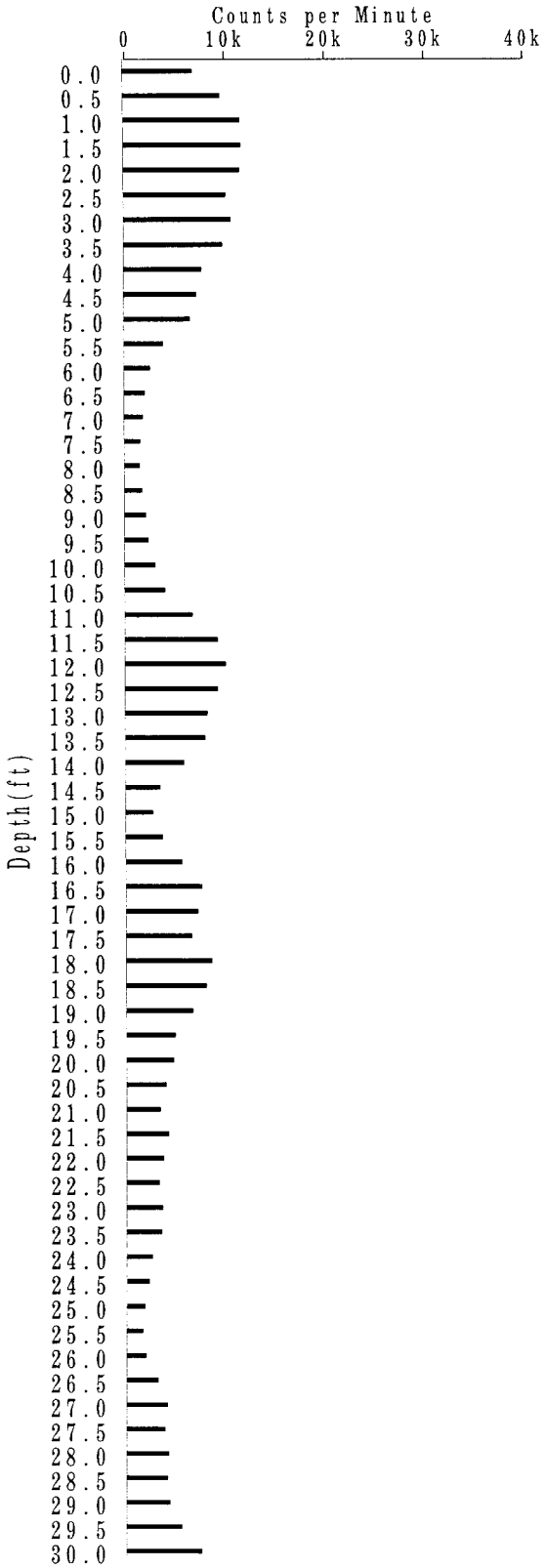
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	pCi/g Ra-226	Th-230	U-238
Fine sand/silt			
Fine sand/silt			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay mix			
Silty clay, modeled			
Silty clay, modeled			
Silty clay, modeled			
Silty clay, modeled			
Silty clay, modeled			
Clay, pure			
Clay, pure			
Clay, pure			
Clay, pure	0.648 =	-9.43 UJ	0.931 U

Borehole Number: SEAARC2018

Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Silty clay			
0.5	Silty clay			
1.0	Silty clay			
1.5	Silty clay	0.615 =	2.73 U	0.941 U
2.0	Silty clay			
2.5	Concrete rubble			
3.0	Concrete rubble			
3.5	No recovery			
4.0	No recovery			
4.5	No recovery			
5.0	No recovery			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Trash			
8.0	Trash			
8.5	No recovery			
9.0	No recovery			
9.5	No recovery			
10.0	No recovery			
10.5	Trash			
11.0	Trash			
11.5	Silty clay			
12.0	Silty clay	0.567 =	-0.224 UJ	0.855 =
12.5	Silty clay			
13.0	Silty clay fill			
13.5	Silty clay fill			
14.0	Silty clay fill			
14.5	Silty clay fill			
15.0	Trash			
15.5	Trash			
16.0	Silty clay fill mix			
16.5	Silty clay fill mix			
17.0	Silty clay fill mix			
17.5	Silty sandy fill			
18.0	Silty sandy fill			
18.5	Silty sandy fill			
19.0	Trash/concrete debris			
19.5	Trash/concrete debris			
20.0	Trash/concrete debris			
20.5	Trash			
21.0	Trash			
21.5	Trash			
22.0	Trash			
22.5	Trash			
23.0	Trash			
23.5	Trash			
24.0	Trash			
24.5	Trash			
25.0	Trash			
25.5	Trash			
26.0	Trash			
26.5	Trash			
27.0	Trash			
27.5	Trash			
28.0	Trash			
28.5	Trash			
29.0	Trash			
29.5	Trash			
30.0	Trash			

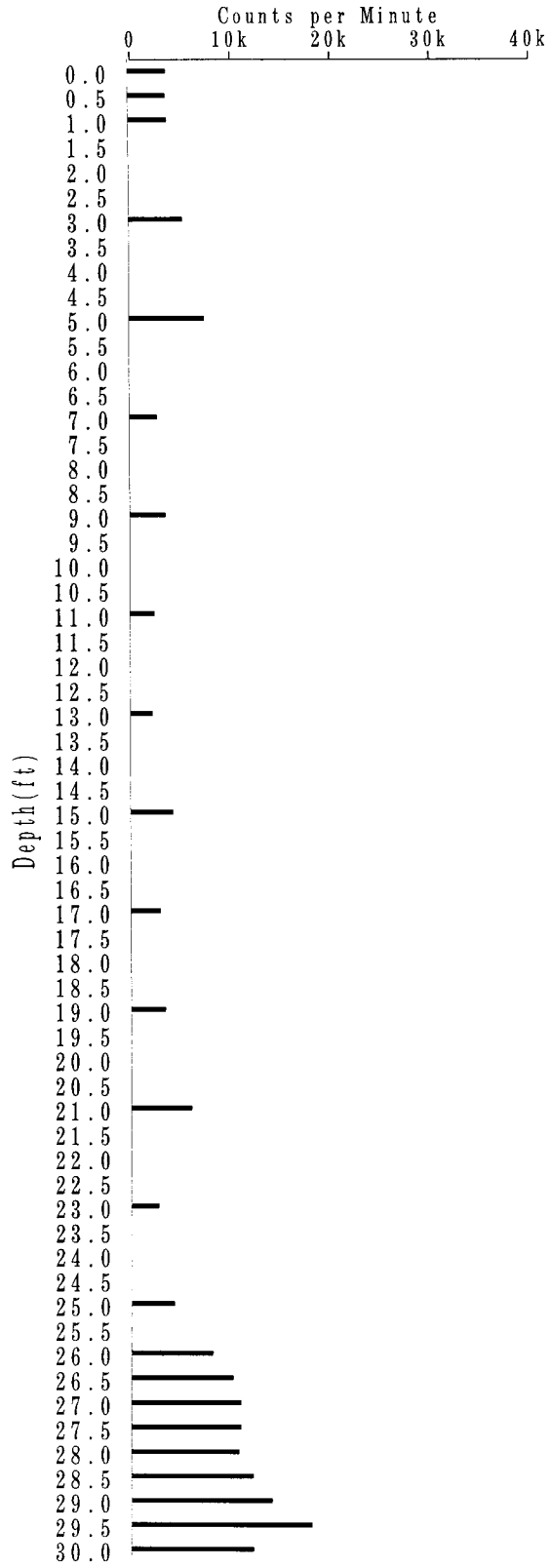
Borehole Number:SEAARC2018 (continued)

Down-hole Gamma, Geological Logs, and BEGe Results with Depth

Depth(ft)	Counts per Minute (0 – 10k – 20k – 30k – 40k)	Description	Ra-226	Th-230	U-238
				pCi/g	
30.5		No log			
31.0		No log			
31.5					
32.0					
32.5					
33.0					
33.5					
34.0					
34.5					
35.0					
35.5					
36.0					
36.5					
37.0					
37.5					
38.0					
38.5					
39.0					
39.5					
40.0					
40.5					
41.0					
41.5					
42.0					
42.5					
43.0					
43.5					
44.0					
44.5					
45.0					
45.5					
46.0					
46.5					
47.0					
47.5					
48.0					
48.5					
49.0					
49.5					
50.0					
50.5					
51.0					
51.5					
52.0					
52.5					
53.0					
53.5					
54.0					
54.5					
55.0					
55.5					
56.0					
56.5					
57.0					
57.5					
58.0					
58.5					
59.0					
59.5					
60.0					

Borehole Number: SEAARC2019

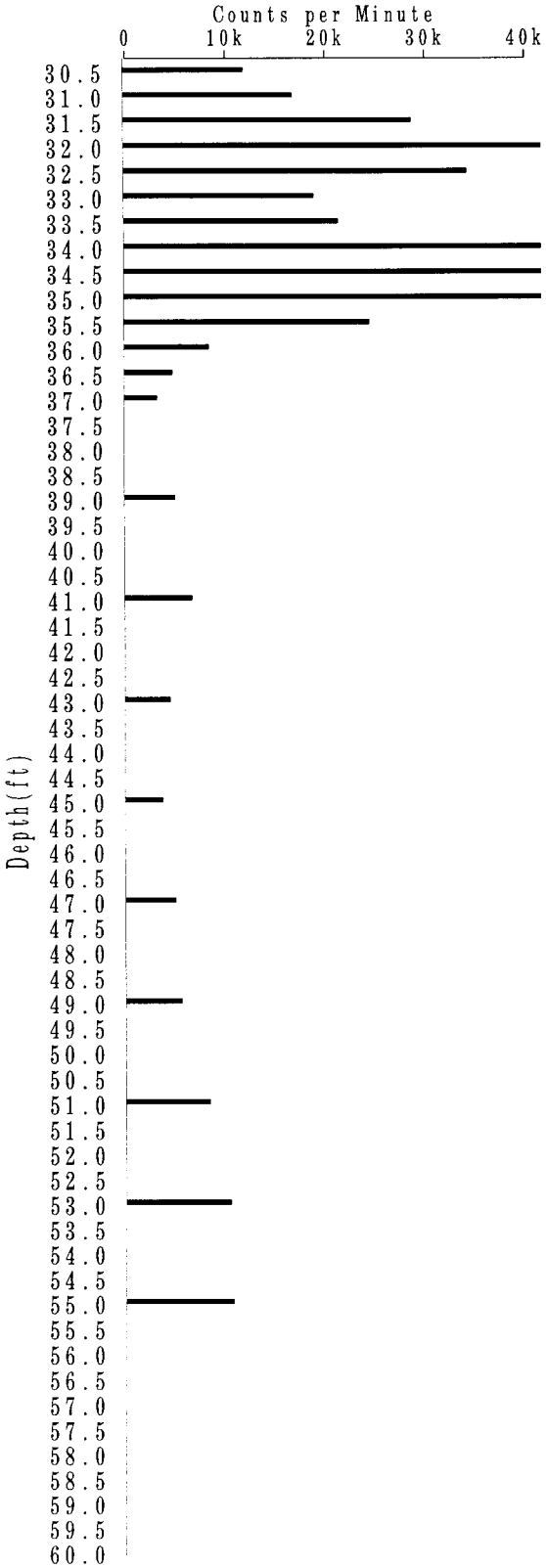
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Concrete/asphalt mix			
Concrete/asphalt mix			
Concrete/asphalt mix			
Concrete/asphalt mix			
Concrete/asphalt mix			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Concrete rubble			
Concrete rubble			
Concrete rubble			
Concrete rubble			
Concrete rubble			
Concrete rubble			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			
Trash with silt mix			
Trash with silt mix			
Trash with silt mix			
Trash with silt mix			
Trash with silt mix			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
No recovery			

Borehole Number:SEAARC2019 (continued)

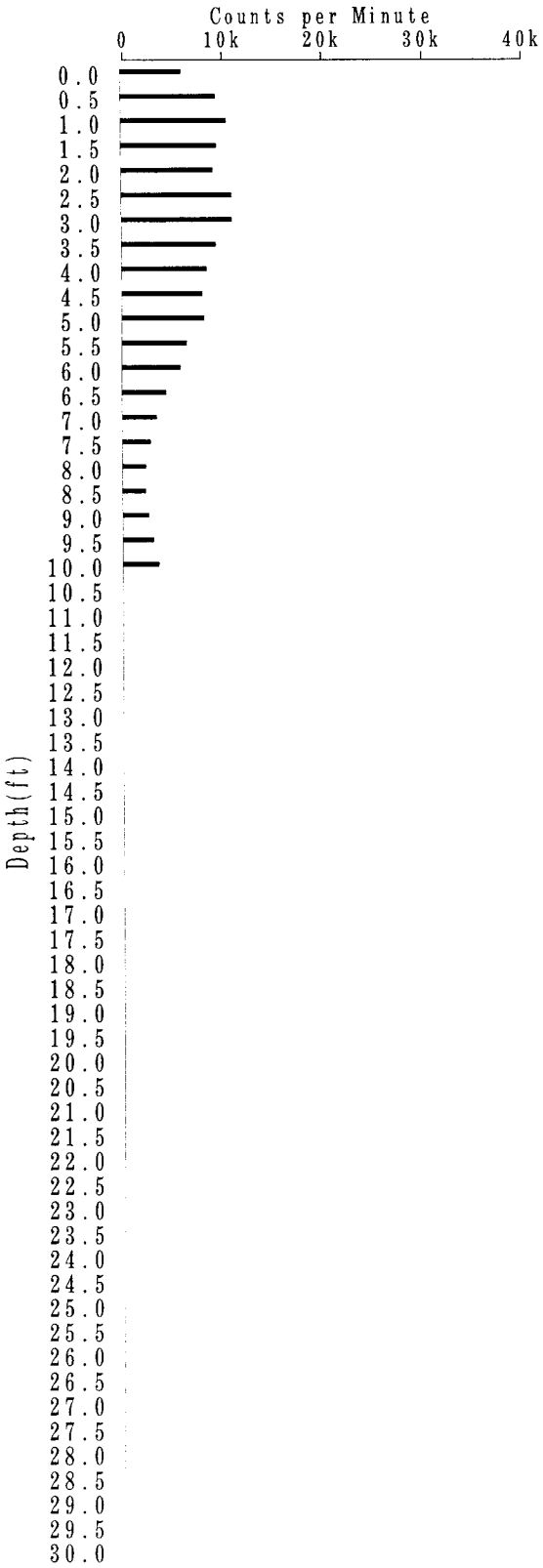
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
30.5	Silty clay trash mix			
31.0	Silty clay trash mix			
31.5	Silty clay trash mix			
32.0	Silty clay trash mix	9.39 =	419 =	22.4 =
32.5	Silty clay trash mix			
33.0	Silty clay trash mix			
33.5	Silty clay gravel mix			
34.0	Silty clay gravel mix			
34.5	Silty clay gravel mix			
35.0	Silty clay trash mix	5.98 =	518 =	37.5 =
35.5	Silty clay trash mix			
36.0	Silty clay trash mix			
36.5	Silty clay trash mix			
37.0	Silty clay trash mix			
37.5	Trash			
38.0	Trash			
38.5	Trash			
39.0	Trash			
39.5	Trash			
40.0	Trash			
40.5	Trash/concrete debris			
41.0	Trash/concrete debris			
41.5	Trash/concrete debris			
42.0	Trash/concrete debris			
42.5	Trash/concrete debris			
43.0	Trash/concrete debris			
43.5	Trash/concrete debris			
44.0	Trash/concrete debris			
44.5	Trash/concrete debris			
45.0	Trash/concrete debris			
45.5	Trash/concrete debris			
46.0	Trash/concrete debris			
46.5	Trash/concrete debris			
47.0	Trash/concrete debris			
47.5	Trash/concrete debris			
48.0	Trash/concrete debris			
48.5	Trash/concrete debris			
49.0	Trash/concrete debris			
49.5	No recovery			
50.0	No recovery			
50.5	Trash			
51.0	Trash			
51.5	Trash			
52.0	Trash			
52.5	Silty clay			
53.0	Silt/trash/gravel mix			
53.5	Silt/trash/gravel mix			
54.0	Silt/trash/gravel mix			
54.5	Silt/trash/gravel mix			
55.0	Silt/trash/gravel mix			

Borehole Number: SEACOR0000

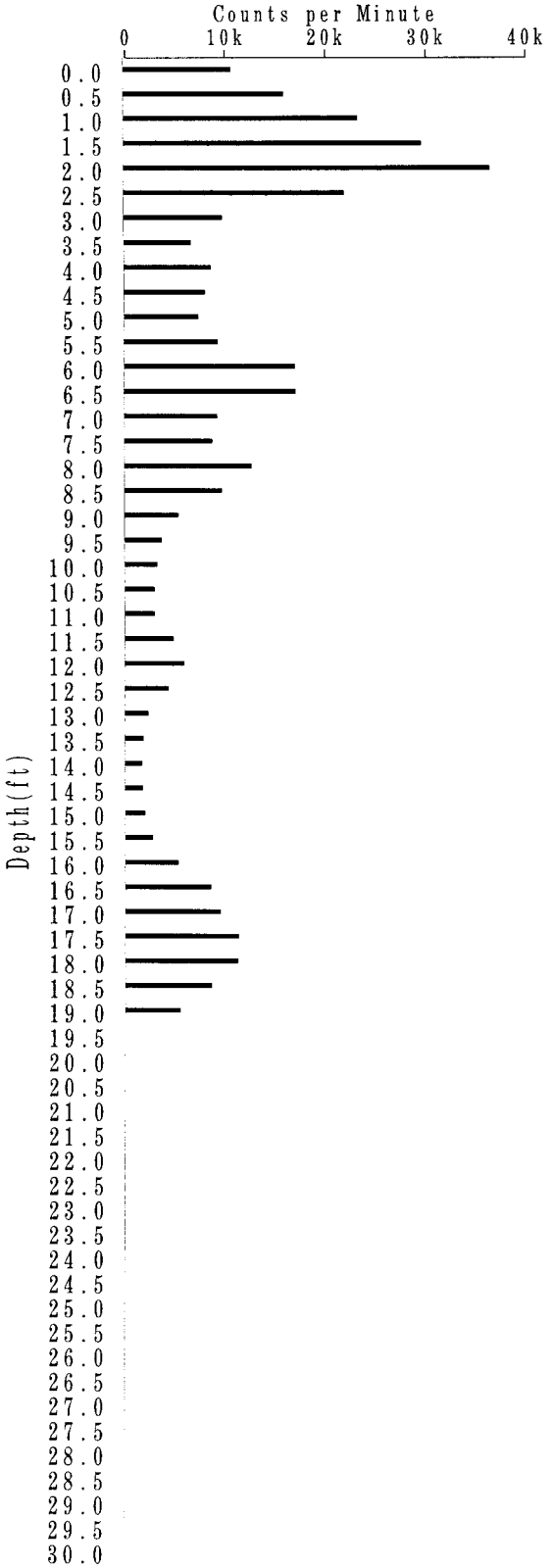
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	Ra-226	pCi/g Th-230	U-238
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Silty clay			
Fill			
Fill			
Fill			
Decomposing refuse			
Decomposing refuse			
Decomposing refuse			
Decomposing refuse			
Compressed lumber			
Compressed lumber			
Silty clay			
Silty clay			

Borehole Number: SEACOR0001

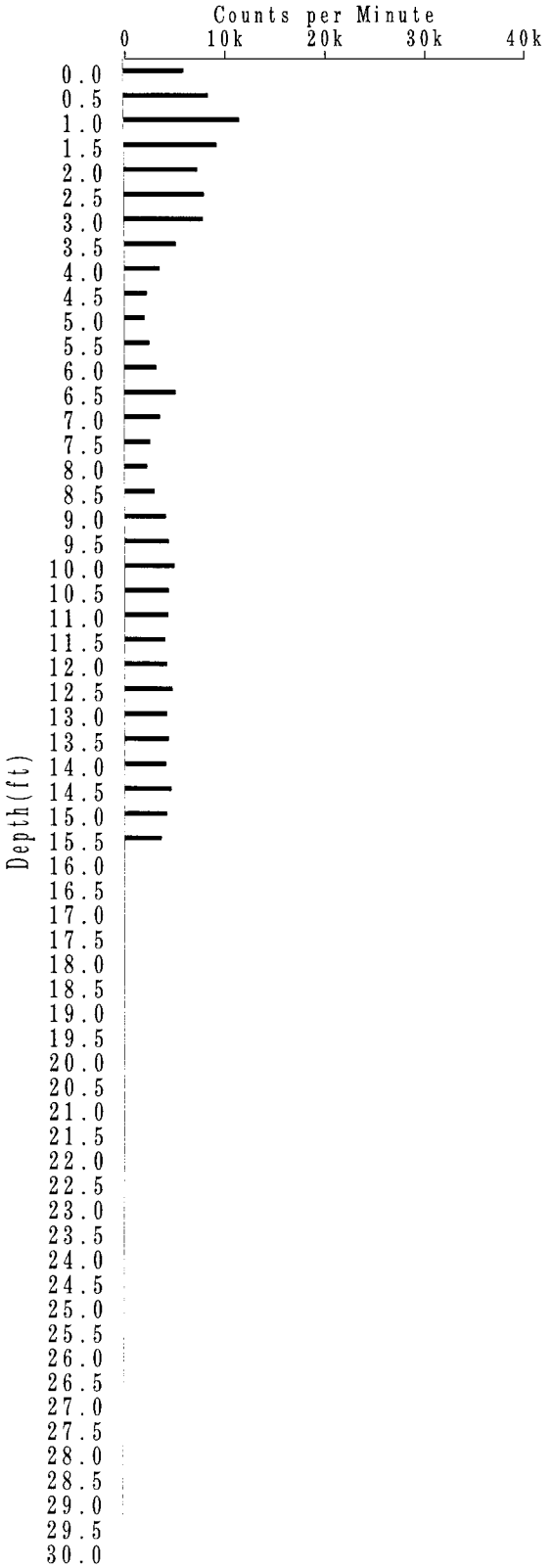
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	Th-230	U-238
		pCi/g		
0.0	Silty clay fill mix			
0.5	Silty clay fill mix			
1.0	Silty clay fill mix	4.61 =	87.6 =	5.01 =
1.5	Silty clay fill mix	4.61 =	161 =	11.5 =
2.0	Silty clay fill mix	7.01 =	328 =	33.5 =
2.5	Silty clay fill mix			
3.0	Trash			
3.5	Trash	5.24 =	192 =	15 =
4.0	Trash			
4.5	Trash			
5.0	Trash			
5.5	Trash	1.34 =	24.8 =	5.03 =
6.0	Trash			
6.5	Trash	3.48 =	85.2 =	17.4 =
7.0	Trash			
7.5	Trash	0.513 =	8.21 U	0.906 U
8.0	Trash	2.78 =	62 =	5.35 =
8.5	Trash			
9.0	Trash			
9.5	Trash			
10.0	Trash			
10.5	Silty very fine wet muck			
11.0	Silty very fine wet muck			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	Trash			
15.0	Trash			
15.5	Trash			
16.0	Trash			
16.5	Trash			
17.0	Trash	1.15 =	-3.8 UJ	1.27 =
17.5	Silty very fine wet muck			
18.0	Silty very fine wet muck	1.45 =	0.777 U	1.35 =
18.5	Trash			
19.0	Trash	1.56 =	14.1 U	1.75 =

Borehole Number: SEACOR0002

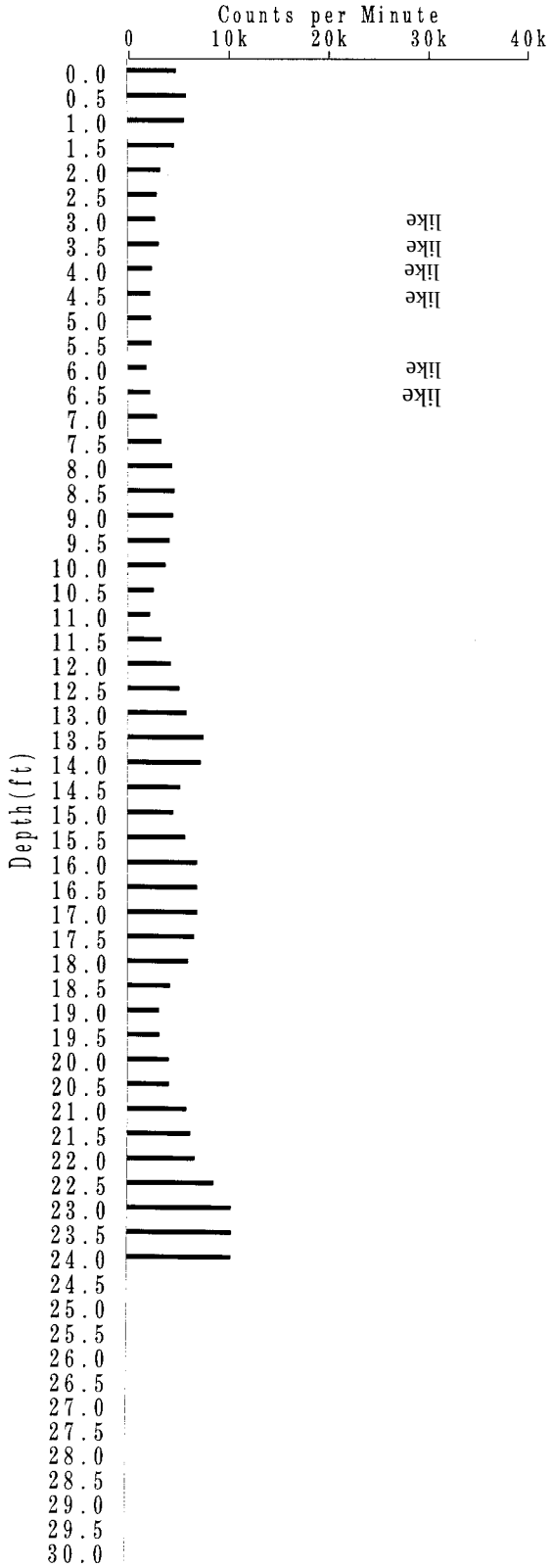
Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Depth (ft)	Description	Ra-226	pCi/g Th-230	U-238
0.0	Sandy silty clay fill			
0.5	Sandy silty clay fill			
1.0	Sandy silty clay fill			
1.5	Sandy silty clay fill	0.613 =	6.94 U	1.29 =
2.0	Sandy silty clay fill			
2.5	Sandy silty clay fill			
3.0	Sandy silty clay fill	0.637 =	-10.7 UJ	1.22 =
3.5	Silty clay			
4.0	Silty clay			
4.5	Trash			
5.0	Trash			
5.5	Trash			
6.0	Trash			
6.5	Trash			
7.0	Trash			
7.5	Fine sand/trash	0.348 =	4.15 U	0.44 U
8.0	Fine sand/trash			
8.5	Trash			
9.0	Trash			
9.5	Trash			
10.0	Trash			
10.5	Trash			
11.0	Trash			
11.5	Trash			
12.0	Trash			
12.5	Trash			
13.0	Trash			
13.5	Trash			
14.0	Trash			
14.5	No recovery			
15.0	No recovery	0.624 =	-1.96 UJ	0.856 U
15.5	No log			

Borehole Number: SEACOR0003

Down-hole Gamma, Geological Logs, and BEGe Results with Depth



Description	pCi/g Ra-226	Th-230	U-238
Silty clay			
Silty clay			
Silty clay			
Trash			
Trash			
No recovery			
No recovery			
No recovery			
No recovery			
Silty sandy fill			
Silty sandy fill			
Silty sandy fill			
Silty sandy fill			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Fine sand/silt			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Trash			
Black silt-life fines	1.16 =	-6.17 UJ	1.3 =
Black silt-life fines			
Trash			
Trash			
Black silt-life fines			
Black silt-life fines			
Black silt-life fines			
Black silt-life fines			
Trash/silty clay			

EXHIBIT C

FIELD BORING LOG SHEETS

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-COR-0000

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

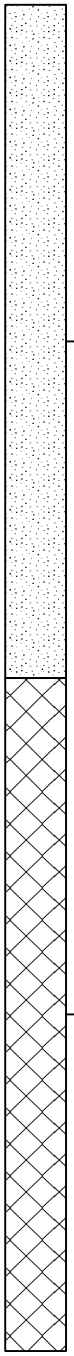
Date Started	: 8/14/01
Date Completed	: 8/14/01
Hole Diameter	: 4 inches
Depth of Boring	: 10 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092292.19
Easting Coord.	: 409424.99

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 656.79 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 656.79	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SANDY CLAY - brown, 7.5 R 4/3, low to medium plasticity, dry, 1" gravel - angular	0
				0
	656			
1				0
				0
	655			
2				0
				.5
	654			
3				6.3
	653		SILTY CLAY - gley greenish gray, 5/5 GY, low plasticity, dry, 2" sub-rounded gravel, trace of fine to medium sand	10
4				30
	652		FILL - red brick, plastic, glass, concrete	
5				45
				2
	651			42
6			DECOMPOSING REFUSE - lumber, glass, plastic, paper	104
				35
	650			
7				697
				650
	649			
8			compressed lumber, no PID at 8 feet	
	648			
9			SILTY CLAY - gley, very dark greenish gray, 3/10 GY, moist, low to medium plasticity, plastic, wood, lumber	
				46
	647			
10				56



Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-COR-0001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092657.01
Easting Coord.	: 409417.57

Logged By	: [redacted]
Preliminary Elevation	: 640.13 ft msl
Final Elevation	: 639.78 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 639.78	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY FILL - 5YR 5/4 dry, reddish brown, low plasticity, some sub-rounded gravel up to 1"	2
	639			3
1				4
				4
	638			
2				3
			TRASH - red brick, stainless steel wire +/- 1/32", wood, fine silty sand, gley 1-3/N, very dark gray, paper, glass	35
	637			
3				36
	636			
4				
	635			
5				32
				48
	634			
6				33
				29
	633			
7				21
				15
	632			
8				19
				283
	631			
9				285
	630			
10				6

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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BORING LOG SEA-COR-0001

Science Applications International Corporation
An Employco-Owned Company

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092657.01
Easting Coord.	: 409417.57

Logged By	: [redacted]
Preliminary Elevation	: 640.13 ft msl
Final Elevation	: 639.78 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 639.78

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
10		TRASH - red brick, stainless steel wire +/- 1/32", wood, fine silty sand, gley 1-3/N, very dark gray, paper, glass	6
		SILT - very fine, wet, gley 2.5/N, black, non-plastic	8
	629		
11		TRASH - sponges, paper, copper (brillo pad-like), paper, plastic, wood, glass	25
			138
	628		
12			144
			107
	627		
13			143
			194
	626		
14			220
			155
	625		
15			160
			142
	624		
16			145
			137
	623		
17		SILT - wet, gley 2.5/N, black, non-plastic	97
			65
	622		
18		TRASH - wood, plastic, paper	110
			104
	621		
19			124
			160
	620		
20			145

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-COR-0002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 15 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093019.22
Easting Coord.	: 409151.59

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 639.42 ft msl
Total Core Recovery	: 93%

Notes:

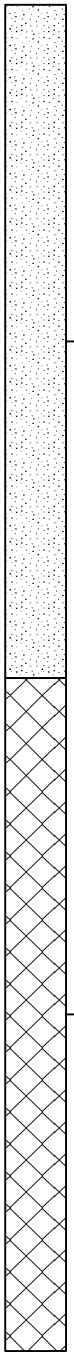
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 639.42	DESCRIPTION	Field Screening (PPM)
0		SANDY, SILTY CLAY FILL - 5YR, 4/4, reddish brown, dry, crumbly, low plasticity with fine sand	0.9
	639		0.8
1			1
	638		2.9
2			4.1
	637		35
3		SILTY CLAY - very dark greenish gray, gley 3/10 GY, dry, low plasticity	119
	636		44
4		TRASH - red brick, metal, wood, plastic	46
	635		127
5			19
	634		23
6			28
	633		36
7		FINE SAND - blond with trash, wood, and sub-rounded 1" rock	40
	632		62
8		TRASH - wood, plastic, paper	43
	631		40
9			27
	630		25
10			32



Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-COR-0002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 15 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093019.22
Easting Coord.	: 409151.59

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 639.42 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 639.42	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			TRASH - wood, plastic, paper	32
	629			54
11				77
	628			76
12				80
	627			102
13				112
	626			524
14			no recovery from 14 to 15 feet	
	625			
15				
	624			
16				
	623			
17				
	622			
18				
	621			
19				
	620			
20				

Backfilled with Landfill Material

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-COR-0003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093017.49
Easting Coord.	: 409100.53

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 635.75 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable
Boring overdrilled - backfilled with bentonite pellets

Boring Completion Details:
Elev.: N/A

Surf. Elev. 635.75

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	635	SILTY CLAY - 5YR 4/4, reddish brown, dry, low plasticity, some fine sand	7, 70
1	634	TRASH - wood, paper, cardboard, plastic mesh, 1/16" square-like window screen, white in color	205, 198
2	633, 632	no recovery from 2-4 feet	
4	631, 630	SILTY SANDY FILL - black, 2.5/1, with trash, metal, wood, cloth, plastic	58, 37, 23, 50
6	629, 628	FINE SAND WITH SILT - 5Y 4/1, dark gray, dry, with some wood and paper	23, 47, 13, 47
8	627, 626	FINE SAND WITH SILT - 2.5 YR, 2.5/1, red, black with some decomposing wood, paper, and cloth	53, 45, 34, 56
10			70

Hydrated Bentonite Pellets

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BORING LOG SEA-COR-0003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093017.49
Easting Coord.	: 409100.53

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 635.75 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring overdrilled - backfilled with bentonite pellets

Boring Completion Details:
Elev.: N/A

Surf. Elev. 635.75

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10		FINE SAND WITH SILT - 2.5 YR, 2.5/1, red, black with some decomposing wood, paper, and cloth	70
	625		84
11			202
	624		114
12		TRASH - wood, cardboard, plastic, rubber, mixed with sandy fill material	156
	623		65
13			525
	622		535
14			567
	621		126
15			69
	620		71
16			110
	619		23
17			34
	618		57
18			91
	617		79
19			75
	616	black powder-like, dry, not consistent with soil, gley 2.5/N, black	65
20			27

Hydrated Bentonite Pellets

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-COR-0003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093017.49
Easting Coord.	: 409100.53

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 635.75 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring overdrilled - backfilled with bentonite pellets

Boring Completion Details:
Elev.: N/A

Surf. Elev. 635.75

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20		black powder-like, dry, not consistent with soil, gley 2.5/N, black	27
	615		24
21		green plastic, high visability fence, 1/4" x 1/4", cardboard	46
	614		9
22		black, very fine silt-like/consistent with material at 19.5' to 21', moist to wet, some plastic mixed in	4
	613		10
23			11
	612		6
24		TRASH - paper (red, white), wood, plastic, some SILTY CLAY, 2.5 Y 2.5/1, black, low plasticity, moist to wet	11
	611		13
25			
	610		
26			
	609		
27			
	608		
28			
	607		
29			
	606		
30			

Hydrated Bentonite Pellets

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

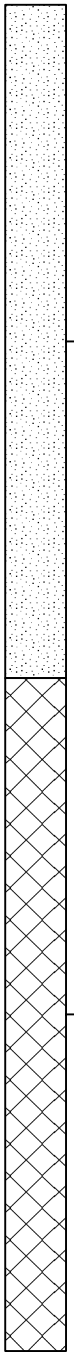
Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092615.37
Easting Coord.	: 409582.72

Logged By	[redacted]
Preliminary Elevation	: 642.55 ft msl
Final Elevation	: 642.26 ft msl
Total Core Recovery	: 67.5%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 642.26	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	642		SILTY CLAY - 5 YR 4/3, reddish brown, medium plasticity, moist	5 5
1	641		TRASH - wood, paper, plastic with sand fill, 5 YR 2.5/1, black	5 6
2	640		no recovery from 2 to 3.5 feet	7
3	639			
4	638		VERY FINE TO FINE SILTY SAND FILL - with trash, 5 YR 2.5/1, black, lumber present	7 8 14
5	637			6 6
6	636			41
7	635		SILTY CLAY - 5 YR 5/3, reddish brown, moist, medium plasticity, some 1/4" gravel sub-rounded present	17 13 7
8	634			7 8
9	633		TRASH - wood, plastic, sandy clay fill, 5 YR 2.5/1, black	8 5
10				16



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Science Applications International Corporation
An Employco-Owned Company

BORING LOG SEA-ARA-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/15/01
Date Completed	: 8/15/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092615.37
Easting Coord.	: 409582.72

Logged By	: [redacted]
Preliminary Elevation	: 642.55 ft msl
Final Elevation	: 642.26 ft msl
Total Core Recovery	: 67.5%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 642.26	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	632		TRASH - wood, plastic, sandy clay fill, 5 YR 2.5/1, black	16
			no recovery from 10 to 12.5 feet	
11	631			
12	630			
			TRASH - wood, plastic	20
13	629			35
				73
14	628			116
				78
15	627		no recovery from 15 to 17.5 feet	59
16	626			
17	625			
			SILTY CLAY - 5 YR 2.5/1, black, moist, with fine sand	57
18	624		TRASH - wood, red brick, plastic, 3-inch sub-rounded gravel, and metal	42
				46
19	623			221
				429
20				465

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-1002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092920.19
Easting Coord.	: 409303.73

Logged By	: [redacted]
Preliminary Elevation	: 639.08 ft msl
Final Elevation	: 639.42 ft msl
Total Core Recovery	: 78%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 639.42	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY LOAM - 5 YR 4/3, reddish brown, medium plasticity, slightly moist	0
	639			0
1			red brick and concrete	1
	638		TRASH - wood, plastic, glass	2
2				127
	637		no recovery from 2.5 to 5 feet	176
3				
	636			
4				
	635			
5			TRASH - wood, plastic, paper, only 2' of recovery (tough to tell exactly what depth)	
	634			7
6				15
	633			
7				
	632			
8				
	631			
9				
	630			
10				

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-1002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092920.19
Easting Coord.	: 409303.73

Logged By	[redacted]
Preliminary Elevation	: 639.08 ft msl
Final Elevation	: 639.42 ft msl
Total Core Recovery	: 78%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 639.42	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			TRASH - wood, plastic, paper, only 2' of recovery (tough to tell exactly what depth)	
	629		TRASH - mixed with fine silty sand, gley 2.5/N, black, wood, plastic, red reflective material	10
11				9
	628			15
12				25
	627			37
13				50
	626			216
14				2000
	625		TRASH - mixed with muck, gley 7/10Y, light greenish gray, low to medium plasticity	
15			FINE SILT-LIKE MATERIAL - gley 2.5/N, black with trash mixed in, wood, plastic, glass	2000
	624			244
16				102
	623			37
17			FINE SILT-LIKE MATERIAL - gley 2.5/N, black with much less trash than above, well formed	57
	622			65
18				16
	621			16
19			TRASH - wood, plastic, glass, tan and blue sponges	16
	620			15
20				20

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARA-1002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092920.19
Easting Coord.	: 409303.73

Logged By	: [redacted]
Preliminary Elevation	: 639.08 ft msl
Final Elevation	: 639.42 ft msl
Total Core Recovery	: 78%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 639.42	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			TRASH - wood, plastic, glass, tan and blue sponges	20
	619		TRASH - wood, plastic, glass, blue fibers, very fine material 2.5/N, black, mixed, well formed	52
				61
21				47
	618			59
22				129
	617			125
23				160
	616			105
24				109
	615			100
25				121
	614			
26				
	613			
27				
	612			
28				
	611			
29				
	610			
30				

Backfilled with Landfill Material

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-1003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093161.47
Easting Coord.	: 409193.98

Logged By	: [redacted]
Preliminary Elevation	: 634.09 ft msl
Final Elevation	: 634.20 ft msl
Total Core Recovery	: 85%

Notes:

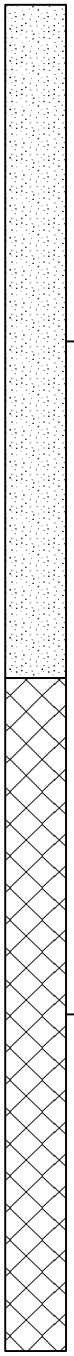
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 634.2	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	634		SILTY CLAY - 5 YR 5/3, dry, reddish brown, low to medium plasticity, 3-inch concrete chunks	1, 2
1	633		TRASH - wood, plastic, glass, paper	1, 25, 52
2	632		no recovery from 2 to 5 feet	
3	631			
4	630			
5	629		TRASH - wood, red brick, paper, plastic, metal, some coarse sand mixed in	
6	628			7, 10
7	627			7, 5
8	626			12, 7
9	625			1350, 2000
10				2000



Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-1003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093161.47
Easting Coord.	: 409193.98

Logged By	: [redacted]
Preliminary Elevation	: 634.09 ft msl
Final Elevation	: 634.20 ft msl
Total Core Recovery	: 85%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 634.2	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	624		TRASH - wood, red brick, paper, plastic, metal, some coarse sand mixed in	2000
				2000
11	623			2000
				2000
12	622			2000
			TRASH - mixed with more coarse sand (more soil than trash than above)	2000
13	621			2000
				2000
14	620		TRASH - wood, plastic, steel, plastic pellets	2000
				965
15	619			450
				560
16	618			340
				220
17	617			205
				170
18	616			203
				315
19	615			405
				410
20				1105

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-1004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

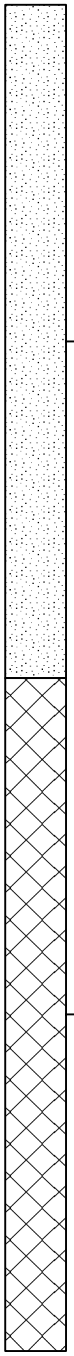
Date Started	: 8/17/01
Date Completed	: 8/17/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092817.42
Easting Coord.	: 409426.04

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 642.7 ft msl
Total Core Recovery	: 62%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 642.7	DESCRIPTION	Field Screening (PPM)
0	642	SILTY CLAY - 5 YR 4/4, dry, reddish brown, low to medium plasticity, some medium sand	0 0
1	641	TRASH - wood and large chunk of concrete	2 7
2	640	no recovery from 2.5 to 5 feet	10 10
3	639		
4	638		
5	637	TRASH - wood, red brick	37 37
6	636		56 69
7	635		125 37
8	634		20 15
9	633		10 20
10			22



Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-1004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/17/01
Date Completed	: 8/17/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092817.42
Easting Coord.	: 409426.04

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 642.7 ft msl
Total Core Recovery	: 62%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 642.7	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			TRASH - wood, red brick	22
	632		SILTY CLAY - 5 YR 4/3, reddish brown, moist, medium plasticity, up to 1 1/2-inch gravel, sub-angular	22
11				13
	631			3
12				3
	630			5
13				5
	629			3
14			TRASH - wood and white marble, 1" thick with finished surfaces	17
	628			58
15			NO RECOVERY - cored to 20 feet, sample stuck in core barrel, set PVC, bottom of core barrel has visible trash	35
	627			
16				
	626			
17				
	625			
18				
	624			
19				
	623			
20				

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

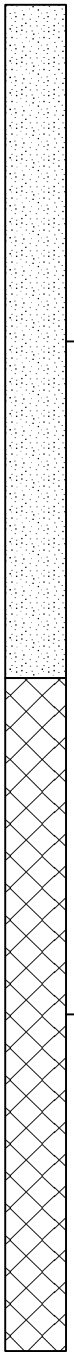
Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 10 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093116.50
Easting Coord.	: 409289.11

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 636.24 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 636.24	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	636		SILTY CLAY - 5 YR 4/4, dry, low to medium plasticity	1
				2
1	635		SILTY FINE MATERIAL - gley 2.5/N, black, dry, no plasticity	2
				3
2	634		TRASH - red and white mesh plastic, wood, wire, glass, etc.	2
				109
3	633			159
				79
4	632			110
				45
5	631			35
				25
6	630			10
				10
7	629			7
				12
8	628			20
				16
9	627			19
				7
10				21



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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARA-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093040.93
Easting Coord.	: 409519.34

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 624.35 ft msl
Total Core Recovery	: 65%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 624.35	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	624		SILTY CLAY - 5 YR 4/4, dry reddish brown, medium to low plasticity	0
				1
1	623			3
				2
				25
2	622			30
				37
			no recovery from 2.5 to 5 feet	
3	621			
4	620			
5	619		TRASH - wood, fibrous foam, yellow/gold color, steel, copper wire	55
				37
6	618			62
				72
7	617		GRAY ASH CINDERS - coarse, sand-like	50
			TRASH - wood, fibers, plastic	32
8	616		no recovery from 8 to 10 feet	20
9	615			
10				65

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
An Employco-Owned Company

BORING LOG SEA-ARA-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/16/01
Date Completed	: 8/16/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1093040.93
Easting Coord.	: 409519.34

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 624.35 ft msl
Total Core Recovery	: 65%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Surf. Elev. 624.35

Boring Completion Details:
Elev.: N/A

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10	614	no recovery from 8 to 10 feet	65
		TRASH - wood, plastic, metal	70
11		gray, fine silt	37
	613	TRASH - wood, plastic, metal	25
			62
12			53
	612		52
		no recovery from 12.5 to 15 feet	
13	611		
14	610		
15		FINE MATERIAL - gley 2.5/N, black, non-plastic	
	609		19
16			10
	608		17
17			20
	607		31
18			17
	606		10
19			15
	605		35
		TRASH - wood	
20			60

Backfilled with Landfill Material

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Science Applications International Corporation
An Employco-Owned Company

BORING LOG SEA-ARB-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 65 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092275.39
Easting Coord.	: 409730.77

Logged By	[redacted]
Preliminary Elevation	: 681.45 ft msl
Final Elevation	: 681.91 ft msl
Total Core Recovery	: 92%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 681.91	DESCRIPTION	Field Screening (PPM)
0		SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, dry	1
			20
1	681	TRASH - plastic, paper, and wood	35
			18
2	680		72
			130
3	679		267
			123
4	678		16
			11
5	677		30
		SILTY CLAY - mixed with rubble, 5 YR 4/4, reddish brown, low to medium plasticity, dry and 2.5 Y 4/3, olive brown, low plasticity, brick and rock up to 5" in diameter	20
6	676		2
			2
7	675		7
			12
8	674	TRASH - plastic, paper, and wood	13
			19
9	673	no recovery from 9 to 10 feet	23
10	672		4

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
An Employco-Owned Company

BORING LOG SEA-ARB-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 65 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092275.39
Easting Coord.	: 409730.77

Logged By	: [redacted]
Preliminary Elevation	: 681.45 ft msl
Final Elevation	: 681.91 ft msl
Total Core Recovery	: 92%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 681.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 9 to 10 feet	4
			TRASH - plastic, paper, and wood	5
11	671			4
			SILTY CLAY - 5YR 4/4, reddish brown, medium plasticity	3
12	670			4
				7
13	669		TRASH - plastic, paper, wood, rugs, brick, etc.	6
				3
14	668			4
				8
15	667			11
				22
16	666			50
				6
17	665			6
				6
18	664			12
				12
19	663			12
				15
20	662			6

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 65 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092275.39
Easting Coord.	: 409730.77

Logged By	[redacted]
Preliminary Elevation	: 681.45 ft msl
Final Elevation	: 681.91 ft msl
Total Core Recovery	: 92%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 681.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			TRASH - plastic, paper, wood, rugs, brick, etc.	6
				10
21	661			20
			Field screening monitoring was not conducted on the soils collected from 21.5 to 65 feet from boring SEA-ARB-1001	
22	660			
23	659			
24	658			
25	657		RUBBLE - brick and concrete (demo debris)	
26	656			
27	655		no recovery from 27 to 30 feet	
28	654			
29	653			
30	652			

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 65 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092275.39
Easting Coord.	: 409730.77

Logged By	[redacted]
Preliminary Elevation	: 681.45 ft msl
Final Elevation	: 681.91 ft msl
Total Core Recovery	: 92%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet | Surf. Elev. 681.91 | GRAPHIC | DESCRIPTION | Field Screening (PPM)

30

no recovery from 27 to 30 feet

SILTY CLAY MIX - 5 YR 4/4, reddish brown, medium plasticity, slightly moist and 2.5 Y 3/1, very dark gray, low plasticity to non-plastic

31 — 651

TRASH - paper, plastic, etc.

32 — 650

33 — 649

34 — 648

35 — 647

TRASH/SILT MIX - gley, 2.5 N, black, non-plastic, slightly moist

36 — 646

TRASH - plastic, paper, and wood

37 — 645

38 — 644

39 — 643

no recovery from 39 to 40 feet

40 — 642

Backfilled with Landfill Material

Science Applications International Corporation
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BORING LOG SEA-ARB-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 65 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092275.39
Easting Coord.	: 409730.77

Logged By	: [redacted]
Preliminary Elevation	: 681.45 ft msl
Final Elevation	: 681.91 ft msl
Total Core Recovery	: 92%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 681.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
40			no recovery from 39 to 40 feet	
			TRASH - plastic, paper, and wood	
41	641			
42	640			
43	639			
44	638			
45	637			
			SILTY CLAY - 5 YR 4/4, reddish brown, medium plasticity, slightly moist	
46	636			
47	635			
48	634			
			TRASH - plastic, paper, and wood	
49	633			
50	632			

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BORING LOG SEA-ARB-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 65 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092275.39
Easting Coord.	: 409730.77

Logged By	[redacted]
Preliminary Elevation	: 681.45 ft msl
Final Elevation	: 681.91 ft msl
Total Core Recovery	: 92%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 681.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
50			TRASH - plastic, paper, and wood	
51	631			
52	630			
53	629			
54	628			
55	627		SANDY GRAVEL FILL MIX - 2.5 Y 3/1, very dark gray, gravel up to 3" in diameter	
56	626			
57	625		TRASH - plastic, paper, wood, etc., with minor 5 YR 4/4 mixed through, reddish brown, low plasticity, slightly moist	
58	624			
59	623			
60	622			

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 65 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092275.39
Easting Coord.	: 409730.77

Logged By	[redacted]
Preliminary Elevation	: 681.45 ft msl
Final Elevation	: 681.91 ft msl
Total Core Recovery	: 92%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 681.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
60			TRASH - plastic, paper, wood, etc., with minor 5 YR 4/4 mixed through, reddish brown, low plasticity, slightly moist	
61	621			
62	620			
63	619			
64	618			
65	617			
66	616			
67	615			
68	614			
69	613			
70	612			

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

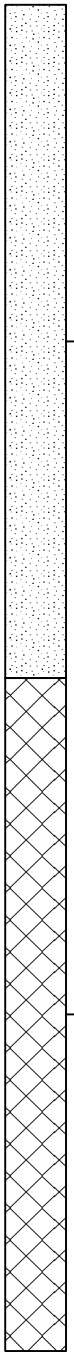
Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092361.31
Easting Coord.	: 409579.44

Logged By	[redacted]
Preliminary Elevation	: 657.32 ft msl
Final Elevation	: 657.46 ft msl
Total Core Recovery	: 82%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 657.46	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			TRASH - wood, plastic, metal	0
	657			1
1				2
	656			2
2				5
	655			11
3			no recovery from 3 to 10 feet	7
	654			
4				
	653			
5				
	652			
6				
	651			
7				
	650			
8				
	649			
9				
	648			
10				2



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BORING LOG SEA-ARB-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092361.31
Easting Coord.	: 409579.44

Logged By	: [redacted]
Preliminary Elevation	: 657.32 ft msl
Final Elevation	: 657.46 ft msl
Total Core Recovery	: 82%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 657.46	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 3 to 10 feet	2
	647		TRASH - and demo debris mix, wood, plastic, red brick	0
11				0
	646			5
12				2
	645			3
13				7
	644			10
14				3
	643			3
15			SILTY CLAY - 5 YR 4/4, reddish brown, moist, medium to high plasticity	2
	642			0
16				0
	641			0
17				0
	640			0
18				0
	639			0
19				0
	638			0
20				4

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092361.31
Easting Coord.	: 409579.44

Logged By	[redacted]
Preliminary Elevation	: 657.32 ft msl
Final Elevation	: 657.46 ft msl
Total Core Recovery	: 82%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 657.46

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20		SILTY CLAY - 5 YR 4/4, reddish brown, moist, medium to high plasticity	4
	637	TRASH - wood, plastic, paper, glass	4
21			0
	636		3
22			16
	635		5
23			164
	634	Elevated surface scan measured at 23 feet 8 inches	8
24			4
	633		2
25			5
	632		10
26		SILTY CLAY AND TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, slightly moist to moist, and 5 Y 4/2, olive gray, non-plastic to low plasticity, slightly moist, TRASH, wood, plastic, paper, gravel, etc.	7
	631		5
27			10
	630		22
28			16
	629		14
29			6
	628		10
30			11

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092361.31
Easting Coord.	: 409579.44

Logged By	[redacted]
Preliminary Elevation	: 657.32 ft msl
Final Elevation	: 657.46 ft msl
Total Core Recovery	: 82%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 657.46	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			SILTY CLAY AND TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, slightly moist to moist, and 5 Y 4/2, olive gray, non-plastic to low plasticity, slightly moist, TRASH, wood, plastic, paper, gravel, etc.	11
	627			40
31				32
	626			60
32				79
	625			41
33				36
	624			55
34				59
	623			51
35				43
	622			57
36				49
	621			7
37				9
	620			8
38				19
	619			15
39				5
	618			20
40				14

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092432.53
Easting Coord.	: 409626.43

Logged By	[redacted]
Preliminary Elevation	: 645.06 ft msl
Final Elevation	: 645.27 ft msl
Total Core Recovery	: 64%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 645.27	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	645		SILTY CLAY - 5 YR 4/4, reddish brown, low plasticity, dry	0
				0
1	644			0
				0
2	643		TRASH - paper, plastic, wood	0
				0
3	642			5
				5
4	641		no recovery from 4 to 10 feet	
5	640			
6	639			
7	638			
8	637			
9	636			
10				2

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092432.53
Easting Coord.	: 409626.43

Logged By	[redacted]
Preliminary Elevation	: 645.06 ft msl
Final Elevation	: 645.27 ft msl
Total Core Recovery	: 64%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 645.27	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	635		no recovery from 4 to 10 feet	2
			TRASH - paper, plastic, wood	1
11	634			1
				4
12	633			4
				2
13	632			1
				1
14	631		no recovery from 14 to 15 feet	1
15	630		TRASH - paper, plastic, rugs, glass, etc.	2
				2
16	629			1
				4
17	628			7
				95
18	627			93
				39
19	626			3
				3
20				4

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092432.53
Easting Coord.	: 409626.43

Logged By	[redacted]
Preliminary Elevation	: 645.06 ft msl
Final Elevation	: 645.27 ft msl
Total Core Recovery	: 64%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 645.27

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20	625	TRASH - paper, plastic, rugs, glass, etc.	4
			4
21	624		6
			39
22	623		4
		no recovery from 22.5 to 25	2
23	622		
24	621		
25	620	SILT - gley 1 2.5 N, black (ash-like), dry	3
			4
26	619		14
			2
27	618		0
			0
28	617	TRASH - paper, plastic, wood, etc.	0
			4
29	616		4
			5
30			4

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092432.53
Easting Coord.	: 409626.43

Logged By	: [redacted]
Preliminary Elevation	: 645.06 ft msl
Final Elevation	: 645.27 ft msl
Total Core Recovery	: 64%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 645.27	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30	615		TRASH - paper, plastic, wood, etc.	4
				1
31	614			0
				1
32	613		no recovery from 32 to 35 feet	1
33	612			
34	611			
35	610			
36	609			
37	608			
38	607			
39	606			
40				

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092419.43
Easting Coord.	: 409702.7

Logged By	[redacted]
Preliminary Elevation	: 650.72 ft msl
Final Elevation	: 650.64 ft msl
Total Core Recovery	: 70%

Notes:

Elevations represented in feet above mean sea level (msl)

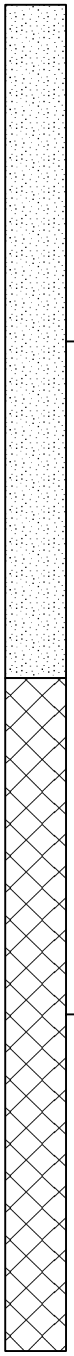
PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 650.64

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	650	SILTY CLAY - 5 YR 4/4, reddish brown, low plasticity, dry	
1	649	TRASH - paper, plastic, wood, glass, etc.	
2	648		
3	647	Field screening monitoring was not conducted on the soils collected from boring SEA-ARB-2003	
4	646	no recovery from 4.5 to 10 feet	
5	645		
6	644		
7	643		
8	642		
9	641		
10			



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Science Applications International Corporation
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BORING LOG SEA-ARB-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092419.43
Easting Coord.	: 409702.7

Logged By	[redacted]
Preliminary Elevation	: 650.72 ft msl
Final Elevation	: 650.64 ft msl
Total Core Recovery	: 70%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet | Surf. Elev. 650.64 | GRAPHIC | DESCRIPTION | Field Screening (PPM)

10 — 640 — 11 — 639 — 12 — 638 — 13 — 637 — 14 — 636 — 15 — 635 — 16 — 634 — 17 — 633 — 18 — 632 — 19 — 631 — 20

no recovery from 4.5 to 10 feet

TRASH - paper, plastic, wood, etc.

SILTY CLAY - 5 YR 4/4, reddish brown, low plasticity, slightly moist

From 14 to 14.5 feet - slightly elevated surface scan readings

TRASH - paper, plastic, wood, etc.

SILTY CLAY - 5 YR 4/4, reddish brown, medium plasticity, moist, trash

no recovery from 18.83 to 20 feet

Backfilled with Landfill Material

Science Applications International Corporation
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BORING LOG SEA-ARB-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092419.43
Easting Coord.	: 409702.7

Logged By	[redacted]
Preliminary Elevation	: 650.72 ft msl
Final Elevation	: 650.64 ft msl
Total Core Recovery	: 70%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 650.64

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
20		no recovery from 18.83 to 20 feet	
	630	SILT - gley 1, 2.5 N, black, (ash-like), wet (probably due to drilling fluids)	
21			
	629		
22		TRASH - paper, plastic, wood, etc.	
	628		
23			
	627		
24			
	626		
25		SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	
	625		
26		TRASH - paper, plastic, wood, etc.	
	624		
27			
	623		
28			
	622		
29		no recovery from 29 to 30 feet	
	621		
30			

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARB-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092419.43
Easting Coord.	: 409702.7

Logged By	: [redacted]
Preliminary Elevation	: 650.72 ft msl
Final Elevation	: 650.64 ft msl
Total Core Recovery	: 70%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 650.64	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			no recovery from 29 to 30 feet	
			SILT/TRASH MIX - gley 1, 2.5 N, black, (ash-like), mixed with trash - paper, plastic, etc.	
	620			
31				
	619			
32				
	618			
33				
	617			
34				
	616			
35				
	615		no recovery from 35.5 to 40 feet	
36				
	614			
37				
	613			
38				
	612			
39				
	611			
40				

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARB-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40' feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092334.35
Easting Coord.	: 409827.37

Logged By	[redacted]
Preliminary Elevation	: 655.90 ft msl
Final Elevation	: 655.61 ft msl
Total Core Recovery	: 85%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 655.61

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	655	SILTY CLAY - 5 yr 4/4, reddish brown, low to medium plasticity, with 5 Y 4/2 olive gray, low plasticity, slightly moist	
1	654	TRASH - paper, plastic, wood, etc.	
2	653	Field screening monitoring was not conducted on the soils collected from 0 to 20 feet from boring SEA-ARB-2004	
3	652	SILTY CLAY MIX - same as from 0 to 1.5 feet above but more moist	
4	651	TRASH - paper, plastic, wood, etc.	
5	650		
6	649		
7	648		
8	647	no recovery from 8 to 10 feet	
9	646		
10			

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40' feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092334.35
Easting Coord.	: 409827.37

Logged By	[redacted]
Preliminary Elevation	: 655.90 ft msl
Final Elevation	: 655.61 ft msl
Total Core Recovery	: 85%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet | Surf. Elev. 655.61 | GRAPHIC | DESCRIPTION | Field Screening (PPM)

10 — 645 — 11 — 644 — 12 — 643 — 13 — 642 — 14 — 641 — 15 — 640 — 16 — 639 — 17 — 638 — 18 — 637 — 19 — 636 — 20

no recovery from 8 to 10 feet

TRASH - paper, plastic, wood, etc.

SILTY CLAY MIX - 5 YR 4/4, reddish brown, low to medium plasticity, moist with 10 YR 2/7, black, low to medium plasticity, slightly moist

TRASH - paper, plastic, wood, etc.

From 18 to 20 feet - elevated surface scan readings

SILTY CLAY/TRASH/FILL MIX - 5 YR 4/4, reddish brown, low to medium plasticity, dry with 5 Y 4/2, olive gray, low plasticity, TRASH - wood, plastic, metal, concrete, brick, etc.

Backfilled with Landfill Material

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARB-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40' feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092334.35
Easting Coord.	: 409827.37

Logged By	[redacted]
Preliminary Elevation	: 655.90 ft msl
Final Elevation	: 655.61 ft msl
Total Core Recovery	: 85%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 655.61	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			SILTY CLAY/TRASH/FILL MIX - 5 YR 4/4, reddish brown, low to medium plasticity, dry with 5 Y 4/2, olive gray, low plasticity, TRASH - wood, plastic, metal, concrete, brick, etc.	10
	635			12
21			TRASH, demo debris, fill, mix	7
	634		TRASH, paper, plastic, wood, metal, etc.	14
22				9
	633		From 20 to 21 feet - elevated surface scan readings	11
23				12
	632			25
24				7
	631		SILTY CLAY/TRASH MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	23
25				12
	630			562
26			TRASH - paper, plastic, wood, etc.	67
	629			105
27				56
	628			580
28				569
	627		SILTY CLAY MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist, with 5 Y 4/2, olive gray, low plasticity	526
29				603
	626		TRASH - paper, plastic, wood, etc.	785
30				1230

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 40' feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092334.35
Easting Coord.	: 409827.37

Logged By	[redacted]
Preliminary Elevation	: 655.90 ft msl
Final Elevation	: 655.61 ft msl
Total Core Recovery	: 85%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 655.61	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			TRASH - paper, plastic, wood, etc.	1230
	625			51
31				60
	624			39
32				62
	623			79
33				45
	622			36
34				90
	621			57
35				90
	620			36
36			no recovery from 36 to 40 feet	79
	619			
37				
	618			
38				
	617			
39				
	616			
40				

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Science Applications International Corporation
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BORING LOG SEA-ARB-2005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092376.39
Easting Coord.	: 409940.12

Logged By	[redacted]
Preliminary Elevation	: 644.1 ft msl
Final Elevation	: 644.13' ft msl
Total Core Recovery	: 66%

Notes:

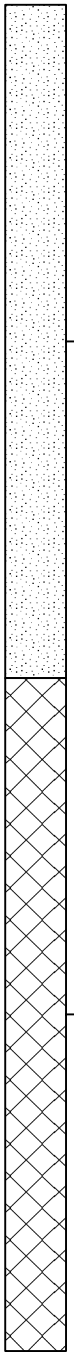
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 644.13	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	644		SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, moist	
1	643			
			TRASH - paper, plastic, concrete and brick (building debris)	
2	642			
3	641		Field screening monitoring was not conducted on the soils collected from SEA-ARB-2005	
4	640			
5	639			
			no recovery from 5.5 to 10 feet	
6	638			
7	637			
8	636			
9	635			
10				



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Science Applications International Corporation
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BORING LOG SEA-ARB-2005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092376.39
Easting Coord.	: 409940.12

Logged By [redacted]
[redacted]
Final Elevation : 644.13' ft msl
Total Core Recovery : 66%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 644.13	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	634		no recovery from 5.5 to 10 feet SILT - gley 1 2.5 N, black, (ash-like), wet	
11	633			
12	632		SILTY CLAY MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist and 5 Y 4/2, olive gray, low plasticity, slightly moist	
13	631		concrete debris	
14	630			
			no recovery from 14.5 to 20 feet	
15	629			
16	628			
17	627			
18	626			
19	625			
20				

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092376.39
Easting Coord.	: 409940.12

Logged By	[redacted]
Preliminary Elevation	: 644.1 ft msl
Final Elevation	: 644.13' ft msl
Total Core Recovery	: 66%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 644.13

Depth in Feet	Description	Field Screening (PPM)
20 (624)	no recovery from 14.5 to 20 feet	
	SILTY CLAY MIX - 5 YR 4/4, reddish brown, low plasticity, dry, with 5 Y 4/2, olive gray, low plasticity, dry	
21 (623)		
22 (622)	TRASH - paper, plastic, wood, etc.	
23 (621)		
24 (620)		
25 (619)		
26 (618)	TRASH/SILT MIX - gley 1 2.5 N, black, (ash-like)	
27 (617)	TRASH - paper, plastic, wood, etc.	
28 (616)	FILL/CLAY MIX - 5 Y 4/2, olive gray, low plasticity, moist	
29 (615)	TRASH - paper, plastic, wood	
30		

Backfilled with Landfill Material

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BORING LOG SEA-ARB-2006

Science Applications International Corporation
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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092489.89
Easting Coord.	: 409804.18

Logged By	[redacted]
Preliminary Elevation	: 640.53 ft msl
Final Elevation	: 640.39 ft msl
Total Core Recovery	: 43%

Notes:

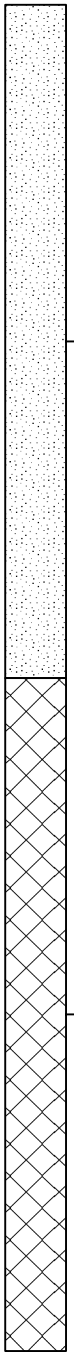
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 640.39	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			DEMO RUBBLE - brick, concrete, some asphalt	0
	640			16
1				17
	639			38
2			TRASH - wood, paper, plastic	129
	638			210
3			no recovery from 3 to 10 feet	265
	637			
4				
	636			
5				
	635			
6				
	634			
7				
	633			
8				
	632			
9				
	631			
10				0



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Science Applications International Corporation
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BORING LOG SEA-ARB-2006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092489.89
Easting Coord.	: 409804.18

Logged By	: [redacted]
Preliminary Elevation	: 640.53 ft msl
Final Elevation	: 640.39 ft msl
Total Core Recovery	: 43%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 640.39	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 3 to 10 feet	0
	630		TRASH - paper, plastic, wood	7
11			SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	2
	629		TRASH - paper, plastic, wood, etc.	0
12				17
	628			4
13				10
	627			45
14				20
	626			4
15				19
	625			16
16				41
	624			19
17			no recovery from 17 to 20 feet	45
	623			
18				
	622			
19				
	621			
20				4

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARB-2006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
[redacted]	[redacted]
Northing Coord.	: 1092489.89
Easting Coord.	: 409804.18

Logged By	[redacted]
Preliminary Elevation	: 640.53 ft msl
Final Elevation	: 640.39 ft msl
Total Core Recovery	: 43%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 640.39	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			no recovery from 17 to 20 feet	4
	620		TRASH - paper, plastic, wood, etc.	2
21				4
	619			3
22				4
	618			45
23			no recovery from 23 to 30 feet	17
	617			
24				
	616			
25				
	615			
26				
	614			
27				
	613			
28				
	612			
29				
	611			
30				

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARB-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092258.4
Easting Coord.	: 409929.70

Logged By	: [redacted]
Final Elevation	: 659.84 ft msl
Total Core Recovery	: 68%

Notes:

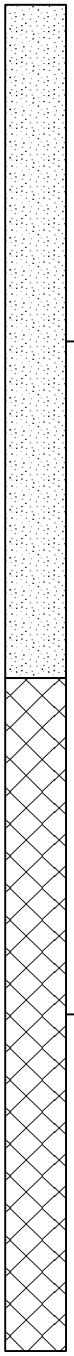
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.84	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY/GRAVEL MIX - 5 YR 4/4, reddish brown, low plasticity, slightly moist, with 5 Y 4/2, olive gray, low plasticity, slightly moist	
1	659			
			Field screening monitoring was not conducted on the soils collected from boring SEA-ARB-2007	
2	658			
			no recovery from 2.5 to 10 feet	
3	657			
4	656			
5	655			
6	654			
7	653			
8	652			
9	651			
10	650			



Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARB-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092258.4
Easting Coord.	: 409929.70

Logged By	[redacted]
Preliminary Elevation	: 659.98 ft msl
Final Elevation	: 659.84 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet | Surf. Elev. 659.84 | GRAPHIC | DESCRIPTION | Field Screening (PPM)

10 — no recovery from 2.5 to 10 feet

SILTY CLAY/TRASH MIX - same as from 0 to 2.5 feet

649 — 11

648 — 12

TRASH - paper, plastic, wood, etc.

647 — 13

646 — 14

645 — 15

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644 — 16

643 — 17

642 — 18

641 — 19

no recovery from 19 to 20 feet

640 — 20

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARB-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092258.4
Easting Coord.	: 409929.70

Logged By	[redacted]
Preliminary Elevation	: 659.98 ft msl
Final Elevation	: 659.84 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet | Surf. Elev. 659.84 | GRAPHIC | DESCRIPTION | Field Screening (PPM)

20 — no recovery from 19 to 20 feet

SILTY CLAY/TRASH MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist with 5 Y 4/2, low plasticity, slightly moist, trash - paper, plastic, etc.

639 — 21

638 — 22

637 — 23

SILTY CLAY - same as above (without trash)

636 — 24

SILT/TRASH MIX - gley 1, 2.5 N (ash-like), moist

635 — 25

Backfilled with Landfill Material

634 — 26

DEMO DEBRIS - concrete, brick

633 — 27

632 — 28

631 — 29

TRASH - paper, plastic, wood, wire, etc.

630 — 30

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BORING LOG SEA-ARB-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092258.4
Easting Coord.	: 409929.70

Logged By	: [redacted]
Preliminary Elevation	: 659.98 ft msl
Final Elevation	: 659.84 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.84	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			TRASH - paper, plastic, wood, wire, etc.	
31	629			
32	628			
33	627			
34	626		no recovery from 34 to 40 feet	
35	625			
36	624			
37	623			
38	622			
39	621			
40	620			

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BORING LOG SEA-ARB-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092258.4
Easting Coord.	: 409929.70

Logged By	[redacted]
Preliminary Elevation	: 659.98 ft msl
Final Elevation	: 659.84 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet | Surf. Elev. 659.84 | GRAPHIC | DESCRIPTION | Field Screening (PPM)

40 — no recovery from 34 to 40 feet

SILT/TRASH MIX - gley 1, 2.5 N, black (ash-like)

619 — 41 — 618 — 42

TRASH - paper, plastic, wood, etc.

617 — 43 — 616 — 44 — 615 — 45 — 614 — 46 — 613 — 47 — 612 — 48 — 611 — 49 — 610 — 50

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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
[redacted]	[redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	: [redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 697.36	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			TRASH - paper, plastic, wood, etc.	22
	697			15
1				77
	696			37
2				94
	695			89
			no recovery from 2.5 to 5 feet	
3				
	694			
4				
	693			
5			TRASH - paper, plastic, wood, etc.	3
	692			13
6				54
	691			13
7				60
	690			71
8				90
	689			74
9				120
	688			95
10				38

Hydrated Bentonite Pellets

Backfilled with Landfill Material

Science Applications International Corporation
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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	: [redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 697.36

Depth in Feet	Description	Field Screening (PPM)
10	TRASH - paper, plastic, wood, etc.	38
687	SILTY FINE SAND - 2.5 YR 3/6, dark red, dry	4
11	TRASH - paper, plastic, wood, etc.	12
686		21
12		25
685		31
	SILT - 2.5 N, black (ash), dry	
13		13
684		10
14	SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, and 5 Y 4/2, olive gray, medium plasticity, slightly moist	5
683		8
15		12
682		17
16		21
681		23
17		29
680		41
18		29
679		33
19		12
678		15
20		42

Backfilled with Landfill Material

Science Applications International Corporation
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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	[redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 697.36

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20	677	SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, and 5 Y 4/2, olive gray, medium plasticity, slightly moist	42
			13
21	676		10
		TRASH - paper, plastic, wood, etc.	35
22	675		6
			11
23	674		51
			11
24	673	POORLY GRADED SAND - 2.5 Y 4/3, olive brown, fine to medium grained, dry	25
			7
25	672		18
			7
26	671		5
			10
27	670	TRASH - paper, plastic, wood, etc.	46
			55
28	669		109
			118
29	668	no recovery from 29 to 30 feet	72
30			7

Backfilled with Landfill Material

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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	[redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 697.36

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
30		no recovery from 29 to 30 feet	7
	667	POORLY GRADED SAND - 2.5 N, black, medium to coarse-grained sand, wet	9
31		SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, moist	6
	666		29
32			11
	665	TRASH - paper, plastic, wood, etc.	35
33			12
	664		11
34			15
	663		21
35		SILTY CLAY FILL MIX - 5 Y 4/2, olive gray, low plasticity, dry, brick, gravel up to 2-inches	13
	662		13
36		TRASH - paper, plastic, wood, etc.	12
	661		39
37			41
	660		67
38			98
	659		137
39		no recovery from 39 to 40 feet	78
	658		
40			10

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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	[redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 697.36

GRAPHIC

DESCRIPTION

Depth in Feet	Elev.	Field Screening (PPM)
40	657	10
		22
41	656	78
		202
42	655	85
		141
43	654	58
		14
44	653	17
		62
45	652	62
		60
46	651	186
		79
47	650	42
		11
48	649	30
		20
49	648	33
		32
50		17

no recovery from 39 to 40 feet

SILTY CLAY FILL TRASH MIX - 5 YR 4/4, reddish brown, moist, medium to high plasticity, paper, plastic, metal, glass, etc.

SILTY CLAY GRAVEL MIX - 5 YR 4/4, reddish brown, dry medium plasticity

TRASH - paper, plastic, wood, etc. including rubble

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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	[redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 697.36

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
50	647	TRASH - paper, plastic, wood, etc. including rubble	17
			4
51	646		7
			13
52	645		16
			19
53	644		19
			45
54	643		12
			13
55	642		26
			23
56	641		10
			11
57	640	SILT - gley 1, 2.5 N, black (ash)	13
			24
58	639		39
			11
59	638	no recovery from 59 to 60 feet	7
60			

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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	: [redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 697.36	GRAPHIC	DESCRIPTION	Field Screening (PPM)
60			no recovery from 59 to 60 feet	
	637		SILT - gley 1, 2.5 N, black (ash-like) some trash mixed in, dry	2
61				5
	636			7
62			CONCRETE RUBBLE	4
	635			
63				
	634		SILT - gley 1, 2.5 N, black (ash-like), dry	
64				3
	633			3
65				3
	632			9
66				3
	631			9
67				5
	630			3
68				4
	629		CONCRETE RUBBLE	2
69			SILT - gley 1, 2.5 N, black (ash-like), dry	2
	628			1
70				2

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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	[redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 697.36

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
70	627	SILT - gley 1, 2.5 N, black (ash-like), dry	2
			4
71	626		7
		SILTY CLAY - 5 YR 4/4, reddish brown, dry, low to medium plasticity	2
72	625	FILL - 2.5 YR 4/2, weak red, 1 to 2-inch gravel, concrete present, fill primarily composed of fine-grained sand and silt	3
			6
73	624		5
			3
74	623		10
			15
75	622		10
			8
76	621		7
			5
77	620		7
			19
78	619		2
		TRASH - wood, plastic, some concrete and brick	2
79	618		4
			4
80			3

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BORING LOG SEA-ARB-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/5/01
Date Completed	: 9/5/01
Hole Diameter	: 6 inches
Depth of Boring	: 85 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092052.70
Easting Coord.	: 409900.72

Logged By	[redacted]
Preliminary Elevation	: 697.82 ft msl
Final Elevation	: 697.36 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 697.36	GRAPHIC	DESCRIPTION	Field Screening (PPM)
80			TRASH - wood, plastic, some concrete and brick	3
	617			2
81				2
	616			7
82				2
	615			2
83				3
	614			2
84				5
	613			2
85				4
	612			
86				
	611			
87				
	610			
88				
	609			
89				
	608			
90				

Backfilled with Landfill Material

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BORING LOG SEA-ARB-2010

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092431.17
Easting Coord.	: 409407.09

Logged By	: [redacted]
Preliminary Elevation	: 645.72 ft msl
Final Elevation	: 645.43 ft msl
Total Core Recovery	: 68%

Notes:

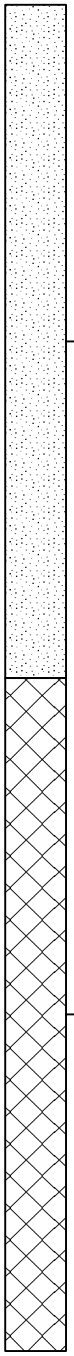
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 645.43	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			DEMO DEBRIS - concrete and red brick Field screening monitoring was not conducted on the soils collected from boring SEA-ARB-2010	
	645			
1				
	644		TRASH - paper, plastic, wood, etc.	
2				
	643			
3				
	642			
4			no recovery from 4 to 10 feet	
	641			
5				
	640			
6				
	639			
7				
	638			
8				
	637			
9				
	636			
10				



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BORING LOG SEA-ARB-2010

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092431.17
Easting Coord.	: 409407.09

Logged By	[redacted]
Preliminary Elevation	: 645.72 ft msl
Final Elevation	: 645.43 ft msl
Total Core Recovery	: 68%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 645.43

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
10	635	no recovery from 4 to 10 feet TRASH - paper, plastic, wood, glass, metal, etc.	
11	634		
12	633		
13	632		
14	631	SILTY CLAY GRAVEL MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	
15	630	TRASH - paper, plastic, wood with concrete rubble	
16	629	SILTY CLAY MIX WITH RUBBLE - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist and 2.5 Y 4/3, olive brown	
17	628	SILT AND TRASH MIX - gley 2.5 N, black (ash-like) mixed with trash (wood)	
18	627	SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, low to medium plasticity, dry, trash, plastic, wood, paper	
19	626		
20			

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BORING LOG SEA-ARB-2010

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/6/01
Date Completed	: 9/6/01
Hole Diameter	: 6 inches
Depth of Boring	: 25 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092431.17
Easting Coord.	: 409407.09

Logged By	[redacted]
Preliminary Elevation	: 645.72 ft msl
Final Elevation	: 645.43 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 645.43

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20	625	SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, low to medium plasticity, dry, trash, plastic, wood, paper	
		TRASH AND SILT MIX - gley 1, 2.5 N, black (ash-like), trash, wood, metal, plastic	
21	624		
22	623	TRASH - wood and concrete rubble	
23	622	no recovery from 23 to 25 feet	
24	621		
25	620		
26	619		
27	618		
28	617		
29	616		
30			

Backfilled with Landfill Material

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BORING LOG SEA-ARC-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/17/01
Date Completed	: 8/17/01
Hole Diameter	: 4 inches
Depth of Boring	: 11.5 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092221.66
Easting Coord.	: 409327.95

Logged By	[redacted]
Preliminary Elevation	: 636.47 ft msl
Final Elevation	: 636.26 ft msl
Total Core Recovery	: 47%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 636.26

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	636	SILTY CLAY - 5 YR 4/3, dry, reddish brown, mixed with red brick and concrete, low plasticity	0
			0
1	635		0
		TRASH - wood, plastic	5
2	634		5
		no recovery from 2.5 to 5 feet	155
3	633		
4	632		
5	631	TRASH - wood, plastic	
			17
6	630	VERY FINE MATERIAL - gley 2.5 N, black with some gray tint, 2" to 3" rounded gravel	20
			15
7	629		12
			7
8	628	no recovery from 8 to 11.5 feet	9
9	627		
10			

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARC-1001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/17/01
Date Completed	: 8/17/01
Hole Diameter	: 4 inches
Depth of Boring	: 11.5 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092221.66
Easting Coord.	: 409327.95

Logged By	: [redacted]
Preliminary Elevation	: 636.47 ft msl
Final Elevation	: 636.26 ft msl
Total Core Recovery	: 47%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 636.26	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	626		no recovery from 8 to 11.5 feet	
11	625			
12	624			
13	623			
14	622			
15	621			
16	620			
17	619			
18	618			
19	617			
20				

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-1002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/17/01
Date Completed	: 8/17/01
Hole Diameter	: 4 inches
Depth of Boring	: 15 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092179.97
Easting Coord.	: 409366.68

Logged By	[redacted]
Preliminary Elevation	: 639.08 ft msl
Final Elevation	: 639.13 ft msl
Total Core Recovery	: 43%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 639.13

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	639	SILTY CLAY - 5 YR 4/4, dry, low plasticity, reddish brown, red brick, concrete, rubber coated wire	0
			0
1	638		0
			0
2	637	TRASH - plastic, rubber with wire, black with green speckles of ash-like material	4
		no recovery from 2.5 to 5 feet	8
3	636		
4	635		
5	634	TRASH - wood, plastic, wire, some coarse sand, gley 2.5 N, black, this does not look like fine black silty material	
			17
6	633		20
		no recovery from 6.5 to 10 feet	25
7	632		
8	631		
9	630		
10			

Hydrated Bentonite Pellets

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Science Applications International Corporation
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BORING LOG SEA-ARC-1002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/17/01
Date Completed	: 8/17/01
Hole Diameter	: 4 inches
Depth of Boring	: 15 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092179.97
Easting Coord.	: 409366.68

Logged By	: [redacted]
Preliminary Elevation	: 639.08 ft msl
Final Elevation	: 639.13 ft msl
Total Core Recovery	: 43%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 639.13	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	629		no recovery from 6.5 to 10 feet	
			TRASH - wood, glass, plastic, coarse sand fill mixed in	17
11	628			39
				35
12	627			20
			no recovery from 12.5 to 15 feet	65
13	626			
14	625			
15	624			
16	623			
17	622			
18	621			
19	620			
20				

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Science Applications International Corporation
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BORING LOG SEA-ARC-1003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/18/01
Date Completed	: 8/18/01
Hole Diameter	: 4 inches
Depth of Boring	: 17 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092113.61
Easting Coord.	: 409400.73

Logged By	: [redacted]
Preliminary Elevation	: 641.91 ft msl
Final Elevation	: 641.48 ft msl
Total Core Recovery	: 76%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable
CPM - counts per minute

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 641.48	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			TRASH - wood, plastic	1
	641			4
1				28
	640			72
2			no recovery from 2 to 5 feet	125
	639			
3				
	638			
4				
	637			
5			SILTY CLAY - 5 YR 4/2, dark reddish gray, medium plasticity, mixed with red brick fragments, white clay tile, wood, plastic	
	636			19
6			SILTY CLAY - 5 YR 4/4, reddish brown, medium plasticity, sub-rounded cobbles, 1" size	20
	635		NOTE: found 1 red ID tag #0009143-M, looks like tag off of truck box custody seal	24
7				23
	634			28
8			From 8.5 to 9 feet - elevated readings of 13,000 to 14,000 cpm measured	4
	633			2
9			TRASH - wood, glass, plastic	2
	632			2
10				2

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-1003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/18/01
Date Completed	: 8/18/01
Hole Diameter	: 4 inches
Depth of Boring	: 17 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092113.61
Easting Coord.	: 409400.73

Logged By	[redacted]
Preliminary Elevation	: 641.91 ft msl
Final Elevation	: 641.48 ft msl
Total Core Recovery	: 76%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable
CPM - counts per minute

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 641.48	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			TRASH - wood, glass, plastic	2
	631			0
11				13
	630			15
12				17
	629			19
13				24
	628			18
			white chalky material	
14			white tile (marble-like), with cardboard	32
	627			40
15			TRASH - wood	32
	626			46
16			no recovery from 16 to 17 feet	49
	625			
17				
	624			
18				
	623			
19				
	622			
20				

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Science Applications International Corporation
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BORING LOG SEA-ARC-1004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/18/01
Date Completed	: 8/18/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092043.07
Easting Coord.	: 409485.76

Logged By	[redacted]
Preliminary Elevation	: 649.88 ft msl
Final Elevation	: 649.28 ft msl
Total Core Recovery	: 47%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 649.28

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	649	SILTY CLAY - 5 YR 4/4, reddish brown, mixed with rubble	3, 7
1	648	TRASH - blue glass, plastic, wood, paper	52, 37
2	647	no recovery from 2 to 5 feet	3
3	646		
4	645		
5	644	TRASH - wood, plastic, plastic table cloth with green and gold flower patterns, lots of it (6" thick)	5, 18, 40, 31
6	643		
7	642		51
8	641	no recovery from 7.5 to 10 feet	
9	640		
10			

Hydrated Bentonite Pellets

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Science Applications International Corporation
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BORING LOG SEA-ARC-1004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/18/01
Date Completed	: 8/18/01
Hole Diameter	: 4 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092043.07
Easting Coord.	: 409485.76

Logged By	[redacted]
Preliminary Elevation	: 649.88 ft msl
Final Elevation	: 649.28 ft msl
Total Core Recovery	: 47%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 649.28

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
10	639	no recovery from 7.5 to 10 feet	
		TRASH - glass, wood, plastic	
		no recovery from 10.5 to 15 feet	
11	638		
12	637		
13	636		
14	635		
15	634	TRASH AND FILL MIX - clay fill, 5 Y, 5 Y2, olive gray, low plasticity, dry, large, sub-angular gravel, trash: glass, plastic, wood	
16	633		
17	632	Note: The drill rig broke down and field screening measurements were not taken from 15 to 19 feet	
18	631		
19	630	no recovery from 19 to 20 feet	
20			

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARC-1005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092050.24
Easting Coord.	: 409594.53

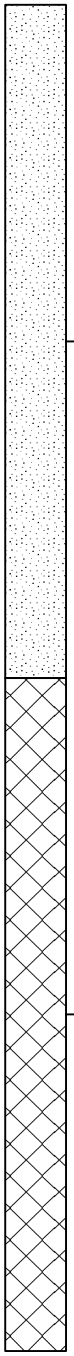
Logged By	: [redacted]
Preliminary Elevation	: 662.24 ft msl
Final Elevation	: 662.17 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Surf. Elev. 662.17

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	662	SILTY CLAY - 5 YR 4/4, reddish brown, dry, low to medium plasticity	20
			56
1	661	TRASH	387
			1084
2	660		1219
			268
3	659		278
			346
4	658		211
			268
5	657		94
			85
6	656	SILTY SANDY FILL - fine to medium (sand), 5 Y 4/2, olive gray, low plasticity	31
			21
7	655	POORLY GRADED SAND - 5 YR 6/8, reddish yellow, dry, well sorted	27
			39
8	654	SILTY CLAY - 5 YR-Y 4/4, reddish brown, moist, medium to high plasticity, with 5 Y 4/2, olive gray, low to medium plasticity, slightly moist with trash mixed in	4
			4
9	653		2
			2
10			6

Boring Completion Details:
Elev.: N/A



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BORING LOG SEA-ARC-1005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted] ear
Company Rep.	: [redacted]
Northing Coord.	: 1092050.24
Easting Coord.	: 409594.53

Logged By	[redacted]
Preliminary Elevation	: 662.24 ft msl
Final Elevation	: 662.17 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 662.17

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10	652	SILTY CLAY - 5 YR-Y 4/4, reddish brown, moist, medium to high plasticity, with 5 Y 4/2, olive gray, low to medium plasticity, slightly moist with trash mixed in	6
		FILL - 5 YR 4/1, dark gray, non-plastic, dry to slightly moist	310
11	651		17
			9
12	650	SILTY CLAY MIX - 5 YR 4/4, reddish brown, medium to high plasticity, mixed with 5 Y 4/2, dark gray	8
			3
13	649		2
			2
14	648	TRASH - plastic, wood, etc.	2
			11
15	647		28
			18
16	646	SILTY CLAY - 5 Y 4/2, olive gray, low plasticity, slightly moist, with gravel up to 1-inch diameter (subrounded)	10
			17
17	645		6
			10
18	644		6
			8
19	643	POORLY GRADED SAND - 10 YR 5/8, red, fine grained, slightly moist	13
			30
20			13

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BORING LOG SEA-ARC-1005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092050.24
Easting Coord.	: 409594.53

Logged By	[redacted]
Preliminary Elevation	: 662.24 ft msl
Final Elevation	: 662.17 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 662.17

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20	642	SILTY CLAY FILL - gley 4/104, dark greenish gray, low plasticity, slightly moist, up to 1-inch sub-angular gravel, some trash mixed in with material	13
			25
21	641		31
			103
22	640		38
			89
23	639	FILL SAND AND GRAVEL - gley 1, 4/104, dark greenish gray, dry to slightly moist	38
		TRASH - wood, plastic, glass	12
24	638		8
			6
25	637		13
			4
26	636		2
		SILT - gley 1, 2.5 N, black (ash-like material), non plastic to low plasticity, slightly moist	2
27	635		2
			3
28	634		4
			5
29	633	TRASH - plastic, wood, paper, and bricks, with 5 Y 4/4, reddish brown clay mixed in (potential MED material)	3
			20
30			7

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BORING LOG SEA-ARC-1005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092050.24
Easting Coord.	: 409594.53

Logged By	[redacted]
Preliminary Elevation	: 662.24 ft msl
Final Elevation	: 662.17 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 662.17

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
30	632	TRASH - plastic, wood, paper, and bricks, with 5 Y 4/4, reddish brown clay mixed in (potential MED material)	7
			5
31	631		9
			5
32	630		6
			5
33	629		8
			2
34	628		2
			8
35	627		50
36	626		
37	625		
38	624		
39	623		
40			

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BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

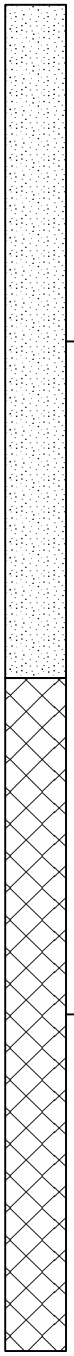
Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By	[redacted]
Preliminary Elevation	: 689.04 ft msl
Final Elevation	: 688.89 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 688.89	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			LOAM - 5 YR 4/2, dark reddish gray	3
				5
1	688		SILTY CLAY - 5 YR 5/8, yellowish red, non-plastic, slightly moist	257
			TRASH - paper, plastic, etc.	265
2	687			269
			no recovery from 2 to 10 feet	205
3	686			
4	685			
5	684			
6	683			
7	682			
8	681			
9	680			
10	679			0



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BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By	: [redacted]
Preliminary Elevation	: 689.04 ft msl
Final Elevation	: 688.89 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 688.89	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 2 to 10 feet	0
			SILTY CLAY - 5 YR 4/6, yellowish red	0
11	678		TRASH - paper, plastic, etc.	0
				0
12	677			1
			SILTY CLAY MIXED WITH FILL - 5 YR 4/3, reddish brown, medium plasticity, slightly moist, mixed with 5 Y 4/2, olive gray, medium plasticity, moist	3
13	676			210
			TRASH - paper, plastic, etc.	265
14	675		no recovery from 14 to 20 feet	116
15	674			
16	673			
17	672			
18	671			
19	670			
20	669			

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Science Applications International Corporation
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BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By	[redacted]
Preliminary Elevation	: 689.04 ft msl
Final Elevation	: 688.89 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 688.89

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
20		no recovery from 14 to 20 feet	
		SILTY CLAY FILL MIXED WITH TRASH - 5 YR 4/6, reddish brown, medium plasticity, moist, mixed with trash	
21	668	SILTY CLAY FILL MIX - 5 YR 4/4, medium plasticity, slightly moist, mixed with 5 Y 4/2, olive gray, same plasticity, moist, also brick and asphalt	
22	667		
23	666	TRASH - paper, plastic, etc.	
24	665		
		Field screening was not conducted on the soils collected from 20 to 80 feet from SEA-ARC-1006	
25	664		
26	663	SILTY CLAY MIXED WITH TRASH - 5 YR 4/3, reddish brown, medium plasticity, slightly moist, with 5 Y 4/2, olive gray, medium plasticity, moist, mixed with trash - paper, plastic, etc.	
27	662	TRASH - paper, plastic, wood, etc.	
28	661		
29	660		
30	659		

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BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By	[redacted]
Preliminary Elevation	: 689.04 ft msl
Final Elevation	: 688.89 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 688.89	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			TRASH - paper, plastic, wood, etc.	
31	658			
32	657			
33	656			
34	655			
35	654		SILT - 5 YR 3/4 to 5 YR 2.5/1, dark reddish brown, non-plastic, slightly moist	
36	653		TRASH - paper, plastic, etc.	
37	652		SILTY CLAY MIX - 5 YR 4/4, reddish brown, 5 Y 4/2, olive gray, medium plasticity, slightly moist, with 1" sub-angular gravel	
38	651		TRASH - plastic, wood, metal, etc.	
39	650			
40	649			

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core [redacted]
[redacted]	[redacted]
[redacted]	R. Buckenberger
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By	[redacted]
Preliminary Elevation	: 689.04 ft msl
Final Elevation	: 688.89 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 688.89	GRAPHIC	DESCRIPTION	Field Screening (PPM)
40			TRASH - plastic, wood, metal, etc.	
41	648			
42	647			
43	646			
44	645			
45	644			
			no recovery from 45.5 to 50 feet	
46	643			
47	642			
48	641			
49	640			
50	639			

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By	[redacted]
Preliminary Elevation	: 689.04 ft msl
Final Elevation	: 688.89 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 688.89	GRAPHIC	DESCRIPTION	Field Screening (PPM)
50			no recovery from 45.5 to 50 feet	
			SILT - gley 1, 2.5 N, black, ash-like, dry	
51	638			
	637			
52			SILT - 5 Y 4/4, olive, color change	
53	636			
54	635			
55	634			
56	633			
			TRASH - plastic, wood	
57	632			
58	631			
59	630			
60	629			

Backfilled with Landfill Material

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BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By [redacted]
[redacted]
Final Elevation : 688.89 ft msl
Total Core Recovery : 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 688.89	GRAPHIC	DESCRIPTION	Field Screening (PPM)
60			TRASH - plastic, wood	
			TRASH - paper, plastic, concrete, bricks	
61	628			
62	627			
63	626			
64	625			
65	624			
66	623			
67	622			
68	621			
69	620			
70	619			

Backfilled with Landfill Material

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BORING LOG SEA-ARC-1006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092087.1
Easting Coord.	: 409767.2

Logged By	[redacted]
Preliminary Elevation	: 689.04 ft msl
Final Elevation	: 688.89 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 688.89	GRAPHIC	DESCRIPTION	Field Screening (PPM)
70			TRASH - paper, plastic, concrete, bricks	
71	618			
72	617		SILTY CLAY - 5 YR 4/6, yellowish red, medium plasticity, dry to slightly moist TRASH - cardboard, wood, plastic, metal	
73	616			
74	615			
75	614			
76	613			
77	612			
78	611			
79	610			
80	609			

Backfilled with Landfill Material

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-1008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/18/01
Date Completed	: 8/18/01
Hole Diameter	: 4 inches
Depth of Boring	: 15 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092202.80
Easting Coord.	: 409345.42

Logged By	[redacted]
Preliminary Elevation	: 637.59 ft msl
Final Elevation	: 637.57 ft msl
Total Core Recovery	: 70%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable
CPM - counts per minute

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 637.57	DESCRIPTION	Field Screening (PPM)
0		SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, sub-rounded	0
	637		4
1		SILTY CLAY - 5 YR 5/1, gray mixed with 5 YR 4/4, silty clay	20
	636		26
2		SILTY CLAY - 5 YR 4/4 and 5 YR 5/1	53
	635		60
3		Note: elevated readings at 3 feet of 14,000 cpm	103
	634		71
4		TRASH - wood, plastic, etc.	40
	633		40
5		SILTY CLAY - 5 YR 5/4, reddish brown, medium plasticity, mixed with plastic, rubber, and paper	15
	632		7
6		TRASH - wood, plastic, cardboard	9
	631		12
7			15
	630	no recovery from 7.5 to 10 feet	8
8			
	629		
9			
	628		
10			

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARC-1008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/18/01
Date Completed	: 8/18/01
Hole Diameter	: 4 inches
Depth of Boring	: 15 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092202.80
Easting Coord.	: 409345.42

Logged By	[redacted]
Preliminary Elevation	: 637.59 ft msl
Final Elevation	: 637.57 ft msl
Total Core Recovery	: 70%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable
CPM - counts per minute

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 637.57	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	627		no recovery from 7.5 to 10 feet TRASH - 1 1/2" wood with stiff foil bundles, silver one side, pink other side	10
11	626		no recovery from 11 to 13 feet	35
12	625			
13	624		southern yellow pine or douglas fir wood	
14	623			
15	622			
16	621			
17	620			
18	619			
19	618			
20				

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARC-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 4 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092268.42
Easting Coord.	: 409361.24

Logged By	: [redacted]
Preliminary Elevation	: 651.86 ft msl
Final Elevation	: 651.73 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 651.73

Depth in Feet	Surf. Elev.	DESCRIPTION	Field Screening (PPM)
0		SILTY CLAY - 5 YR 5/4, reddish brown, moist, high plasticity, some 1/8" and 1/4" gravel, sub-rounded	0
	651		0
1			0
			0
	650		
2			0
		SILTY CLAY - gley 1, 4/10Y, dark greenish gray, slightly moist, low to medium plasticity, red brick chips and concrete	0
	649		
3			13.5
		SILTY CLAY - 5 YR 5/4, reddish brown, moist, high plasticity, some 1/8" and 1/4" gravel, sub-rounded	12.7
	648	no recovery from 3.5 to 5 feet	
4			
	647		
5		SILTY CLAY - gley 1, 4/10Y, dark greenish gray, slightly moist, low to medium plasticity, glass, plastic, wood, 1/8" to 1/4" gravel, sub-angular	84
			65
	646		
6		SILTY CLAY - 5 YR 5/4, reddish brown, high plasticity, moist	73
			59
	645		
7		SAND - gley 1, 2.5/N, black, fine to medium, dry	12
			42
	644		
8		no recovery from 8 to 10 feet	66
	643		
9			
	642		
10			3

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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BORING LOG SEA-ARC-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 4 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092268.42
Easting Coord.	: 409361.24

Logged By	[redacted]
Preliminary Elevation	: 651.86 ft msl
Final Elevation	: 651.73 ft msl
Total Core Recovery	: 68%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 651.73

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10		no recovery from 8 to 10 feet	3
		SILTY CLAY - 5 YR 5/4, moist, reddish brown	5
	641	SOLID WOOD	12
11			40
	640		
12		SILTY CLAY MIX - gley 1, 2.5/N, black with glass and ceramic tile, wood, paper	12
	639		17
13			39
	638		17
14		SILTY CLAY - 5 YR 5/4, moist, medium to high plasticity, reddish brown	92
	637	TRASH - wood, plastic, asphalt roof shingles, glass	132
15			77
	636		167
16			183
	635		150
17			147
	634		53
18			32
	633		43
19			93
	632	no recovery from 19.5 to 20 feet	136
20			35

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Science Applications International Corporation
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BORING LOG SEA-ARC-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 4 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092268.42
Easting Coord.	: 409361.24

Logged By	[redacted]
Preliminary Elevation	: 651.86 ft msl
Final Elevation	: 651.73 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 651.73	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			no recovery from 19.5 to 20 feet	35
			SILTY CLAY MIX - gley 1, 4/10Y, dark greenish gray, moist, medium plasticity, mixed with trash	17
	631			
21				26
				29
	630		TRASH - wood, plastic, etc.	
22				33
				65
	629			
23				57
				29
	628		no recovery from 23.5 to 25 feet	
24				
	627			
25			TRASH - wood, plastic, mesh 1/4" by 1/4", 2" sub-angular gravel	
				12
	626			
26			no recovery from 26 to 30 feet	27
	625			
27				
	624			
28				
	623			
29				
	622			
30				65

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Science Applications International Corporation
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BORING LOG SEA-ARC-2001

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 4 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 4 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092268.42
Easting Coord.	: 409361.24

Logged By	[redacted]
Preliminary Elevation	: 651.86 ft msl
Final Elevation	: 651.73 ft msl
Total Core Recovery	: 68%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 651.73

Depth in Feet	Surf. Elev.	DESCRIPTION	Field Screening (PPM)
30		no recovery from 26 to 30 feet	65
		SILTY CLAY MIX - gley 1, 5/N, gray, moist, with trash, wood, paper, plastic	133
	621		
31			165
			2000
	620		
32		no recovery from 32 to 35 feet	149
	619		
33			
	618		
34			
	617		
35			
	616		
36			
	615		
37			
	614		
38			
	613		
39			
	612		
40			

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARC-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092233.68
Easting Coord.	: 409402.02

Logged By	[redacted]
Preliminary Elevation	: 659.82 ft msl
Final Elevation	: 659.96 ft msl
Total Core Recovery	: 92%

Notes:

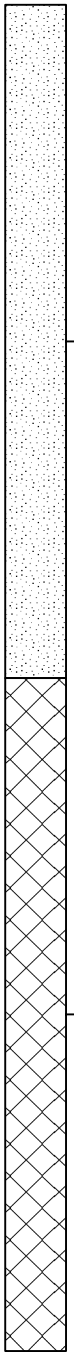
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.96	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY - 5 YR 4/2, weak red, dry, low to medium plasticity	3
				2
1	659			5
				5
2	658		asphalt and plastic	5
				5
3	657		SILTY CLAY - 5 YR 4/4, reddish brown, dry, low to medium plasticity	3
				4
4	656			5
				6
5	655		SILTY CLAY - 5 YR 4/4, reddish brown, with some silty clay, 2.5 Y 6/6, yellow, mixed with concrete chunks	3
				4
6	654			2
				3
7	653			5
			no recovery from 7.5 to 10 feet	3
8	652			
9	651			
10	650			



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BORING LOG SEA-ARC-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: Boart Longyear
Company Rep.	: R. Buckenberger
Northing Coord.	: 1092233.68
Easting Coord.	: 409402.02

Logged By	: D. Minese
Preliminary Elevation	: 659.82 ft msl
Final Elevation	: 659.96 ft msl
Total Core Recovery	: 92%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.96	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 7.5 to 10 feet	
			SILTY CLAY - 7.5 YR 4/3, brown, medium to high plasticity, moist, with one sub-rounded 4-inch gravel	3
11	649			4
				3
12	648		TRASH - wood, plastic, cloth	5
				2
13	647			6
				5
14	646		SILTY CLAY - 2.5 Y, 2.5 Y/1, black, dry, low to medium plasticity, with coarse sand mixed, glass and concrete mixed in from 15 to 17 feet	9
				39
15	645			66
				6
16	644			5
				5
17	643		SAND - fine to medium, 5 YR 3/1, very dark gray, with some fine to medium sand 10 R 5/8, red, dry	9
				7
18	642			8
				7
19	641		TRASH - wood, plastic, foil	9
				8
20	640			9

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092233.68
Easting Coord.	: 409402.02

Logged By	[redacted]
Preliminary Elevation	: 659.82 ft msl
Final Elevation	: 659.96 ft msl
Total Core Recovery	: 92%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.96	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			TRASH - wood, plastic, foil	9
				29
21	639			17
				29
22	638			32
				65
23	637			79
				115
24	636			137
				125
25	635		TRASH MIXED WITH FINE SILT - gley 1, 2.5/N, black	76
				9
26	634			9
			TRASH	12
27	633			10
				11
28	632			19
				12
29	631		SILTY CLAY - 2.5 Y 4/2, dark grayish brown	17
				9
30	630			7

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2002

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092233.68
Easting Coord.	: 409402.02

Logged By	[redacted]
Preliminary Elevation	: 659.82 ft msl
Final Elevation	: 659.96 ft msl
Total Core Recovery	: 92%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.96	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			SILTY CLAY - 2.5 Y 4/2, dark grayish brown	7
				17
31	629		SILT - gley 1, 2.5/N, black, no plasticity, dry (ash?)	12
				9
32	628		TRASH - wood, orange foam, metal, plastic, paper	6
				12
33	627			6
				9
34	626			7
				62
35	625			69
36	624			
37	623			
38	622			
39	621			
40	620			

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092206.39
Easting Coord.	: 409427.58

Logged By	[redacted]
Preliminary Elevation	: 662.41 ft msl
Final Elevation	: 663.42 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 663.42

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	663	DEMO DEBRIS - red brick, rock 2" to 3", sub-rounded, with some trash, wood, plastic, tin cans	0
			0
1			1
	662		3
2			2
	661		7
3			2
	660		6
4			5
	659		5
5		SILTY CLAY - 10 R 5/4, red, mixed with 1-inch gravel, sub-rounded, medium to high plasticity, moist	3
	658		6
6			7
	657		5
7			6
	656		2
8			7
	655		4
9			5
	654		3
10			3

Hydrated Bentonite Pellets

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092206.39
Easting Coord.	: 409427.58

Logged By	[redacted]
Preliminary Elevation	: 662.41 ft msl
Final Elevation	: 663.42 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 663.42

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10	653	SILTY CLAY - 10 R 5/4, red, mixed with 1-inch gravel, sub-rounded, medium to high plasticity, moist	3
			4
11	652		4
			6
12	651		9
			3
13	650		5
		SILTY CLAY - 2.5 Y 3/1, very dark grayish brown, moist, low to medium plasticity, some 1-inch sub-rounded gravel	4
14	649		3
			7
15	648	TRASH - metal wire	13
		SILTY CLAY MIXED WITH TRASH - gley 1, 5/10Y, greenish gray, moist, medium plasticity, with trash - plastic, wood, metal	7
16	647		9
			8
17	646	CLAY - 10 R 5/6, red, medium to high plasticity	7
			9
18	645	SILTY CLAY MIX - 2.5 Y 3/1, very dark gray, moist, medium to low plasticity	5
			6
19	644		11
			7
20			19

Backfilled with Landfill Material

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Science Applications International Corporation
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BORING LOG SEA-ARC-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092206.39
Easting Coord.	: 409427.58

Logged By	: [redacted]
Preliminary Elevation	: 662.41 ft msl
Final Elevation	: 663.42 ft msl
Total Core Recovery	: 100%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 663.42

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
20		SILTY CLAY MIX - 2.5 Y 3/1, very dark gray, moist, medium to low plasticity	19
	643	SILTY CLAY - 5 YR 4/4, dark gray, medium plasticity, some trash mix, plastic, wood	8
21			3
	642	FINE SAND - 10 YR 3/1, very dark gray, dry	9
22		FINE SAND - 2.5 YR 5/8, red, dry	7
	641	SILTY CLAY - 2.5 Y 3/1, very dark gray, medium plasticity with some trash mixed in	3
23			10
	640		6
24			7
	639		14
25		TRASH - wood, concrete, plastic	12
	638		80
26			82
	637		65
27			79
	636		66
28		SILTY CLAY MIX - gley 1, 2.5/N, black, with large 6-inch concrete chunks	29
	635		17
29		TRASH - wood, plastic, glass, paper	35
	634		22
30			28

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Science Applications International Corporation
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BORING LOG SEA-ARC-2003

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/27/01
Date Completed	: 8/27/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092206.39
Easting Coord.	: 409427.58

Logged By	[redacted]
Preliminary Elevation	: 662.41 ft msl
Final Elevation	: 663.42 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 663.42	DESCRIPTION	Field Screening (PPM)
30		TRASH - wood, plastic, glass, paper	28
	633		16
31			15
	632		6
32			12
	631		10
33		TRASH MIX WITH SILTY CLAY - 2.5 Y 3/1, very dark gray with red brick and red tile clay, moist	57
	630		62
34		TRASH - wood, springs, paper, etc.	135
	629		62
35		TRASH MIXED WITH SILTY CLAY - gley 1, 2.5/N, black, with red brick, paper	79
	628		17
36			23
	627		25
37		TRASH - wood, paper, plastic, glass, copper	68
	626		93
38			65
	625		205
39			159
	624		210
40			267

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BORING LOG SEA-ARC-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

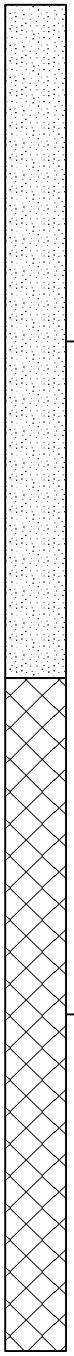
Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092276.53
Easting Coord.	: 409402.59

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 656.84 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 656.84	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			Boring SEA-ARC-2004 was not lithologically logged	0
				0
	656			0
1				0
				0
	655			0
2				1
	654			3
3				2
	653			6
4				5
	652			0
5				0
	651			0
6				0
	650			0
7				3
	649			40
8				84
	648			86
9				115
	647			16
10				



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BORING LOG SEA-ARC-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092276.53
Easting Coord.	: 409402.59

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 656.84 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 656.84	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			Boring SEA-ARC-2004 was not lithologically logged	16
				26
	646			
11				52
				91
	645			
12				48
				32
	644			
13				19
				6
	643			
14				84
				213
	642			
15				305
	641			
16				
	640			
17				
	639			
18				
	638			
19				
	637			
20				

Backfilled with Landfill Material

Science Applications International Corporation
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BORING LOG SEA-ARC-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092276.53
Easting Coord.	: 409402.59

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 656.84 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 656.84	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			Boring SEA-ARC-2004 was not lithologically logged	
	636			
21				
	635			
22				
	634			
23				
	633			
24				
	632			
25				30
				36
	631			
26				45
				45
	630			
27				8
				13
	629			
28				38
				38
	628			
29				60
				79
	627			
30				19

Backfilled with Landfill Material

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2004

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

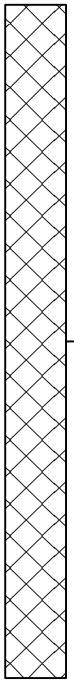
Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 35 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092276.53
Easting Coord.	: 409402.59

Logged By	: [redacted]
Preliminary Elevation	: N/A
Final Elevation	: 656.84 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 656.84	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			Boring SEA-ARC-2004 was not lithologically logged	19
				216
	626			
31				290
				15
	625			
32				26
				26
	624			
33				24
				5
	623			
34				10
				45
	622			
35				143
	621			
36				
	620			
37				
	619			
38				
	618			
39				
	617			
40				



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Science Applications International Corporation
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BORING LOG SEA-ARC-2005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

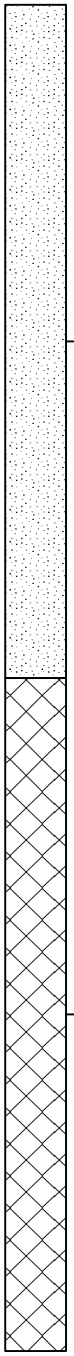
Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092250.06
Easting Coord.	: 409427.93

Logged By	: [redacted]
Preliminary Elevation	: 659.83 ft msl
Final Elevation	: 659.91 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			Boring SEA-ARC-2005 was not lithologically logged	0
				0
1	659			0
				0
2	658			0
				0
3	657			0
				0
4	656			0
				0
5	655			0
				0
6	654			0
				1
7	653			0
				0
8	652			0
				3
9	651			0
				8
10	650			39



Science Applications International Corporation
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BORING LOG SEA-ARC-2005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092250.06
Easting Coord.	: 409427.93

Logged By	[redacted]
Preliminary Elevation	: 659.83 ft msl
Final Elevation	: 659.91 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			Boring SEA-ARC-2005 was not lithologically logged	39
				3
11	649			3
				12
12	648			26
				158
13	647			48
				26
14	646			15
				22
15	645			38
				12
16	644			35
				32
17	643			61
				79
18	642			77
				91
19	641			59
				49
20	640			50

Backfilled with Landfill Material

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

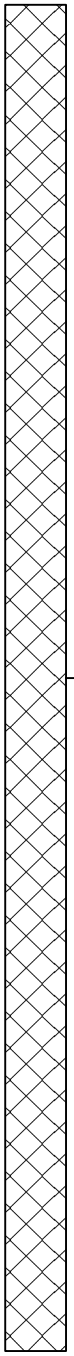
Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092250.06
Easting Coord.	: 409427.93

Logged By	: [redacted]
Preliminary Elevation	: 659.83 ft msl
Final Elevation	: 659.91 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			Boring SEA-ARC-2005 was not lithologically logged	50
				2
21	639			18
				116
22	638			161
				165
23	637			172
				60
24	636			81
				40
25	635			7
26	634			
27	633			
28	632			
29	631			
30	630			



Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2005

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

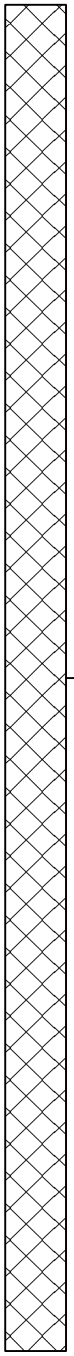
Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092250.06
Easting Coord.	: 409427.93

Logged By	[redacted]
Preliminary Elevation	: 659.83 ft msl
Final Elevation	: 659.91 ft msl
Total Core Recovery	: Not recorded

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.91	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			Boring SEA-ARC-2005 was not lithologically logged	
31	629			
32	628			
33	627			
34	626			
35	625			
36	624			
37	623			
38	622			
39	621			
40	620			



Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092265.55
Easting Coord.	: 409451.17

Logged By	[redacted]
Preliminary Elevation	: 659.93 ft msl
Final Elevation	: 659.90 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.90	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY - 5 YR 4/4, reddish brown, medium plasticity, slightly moist	2
				0
1	659			0
				6
2	658			1
				0
3	657			0
				0
4	656			6
				4
5	655		SILTY CLAY MIX - 5 YR 4/4, reddish brown, medium plasticity, dry, with 5 Y 4/2, olive gray, low plasticity, slightly moist	4
				1
6	654			0
				6
7	653		TRASH - paper, wood, glass, etc.	10
				4
8	652			1
				8
9	651			12
				50
10	650			158

Hydrated Bentonite Pellets

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Science Applications International Corporation
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BORING LOG SEA-ARC-2006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092265.55
Easting Coord.	: 409451.17

Logged By	[redacted]
Preliminary Elevation	: 659.93 ft msl
Final Elevation	: 659.90 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.90	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			TRASH - paper, wood, glass, etc.	158
				987
11	649			41
				18
12	648			20
				24
13	647			29
				106
14	646			391
				360
15	645			387
				56
16	644			84
				125
17	643			224
				215
18	642			105
				193
19	641			150
				165
20	640			137

Backfilled with Landfill Material

11-29-2001 U:\PUBLIC\MTech\Seaway\SEAARC2006.BOR

Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092265.55
Easting Coord.	: 409451.17

Logged By	[redacted]
Preliminary Elevation	: 659.93 ft msl
Final Elevation	: 659.90 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 659.90

Depth in Feet	Surf. Elev.	DESCRIPTION	Field Screening (PPM)
20		TRASH - paper, wood, glass, etc.	137
			119
21	639		88
			80
22	638	SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, dry	5
			0
23	637	From 22 to 24 feet - elevated readings with surface scan	0
			3
24	636	TRASH - paper, plastic, glass, etc.	16
			19
25	635		20
			110
26	634		256
			136
27	633		250
			47
28	632	SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, dry with 5 Y 4/2, olive gray, low plasticity, slightly moist, trash composed of wood and plastic	50
			178
29	631		83
			132
30	630		7

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2006

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092265.55
Easting Coord.	: 409451.17

Logged By	[redacted]
Preliminary Elevation	: 659.93 ft msl
Final Elevation	: 659.90 ft msl
Total Core Recovery	: 100%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 659.90	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, dry with 5 Y 4/2, olive gray, low plasticity, slightly moist, trash composed of wood and plastic	7
				48
31	629			81
				87
			TRASH - metal, plastic, wood, brick, etc.	
32	628			165
				105
33	627			83
				177
34	626			122
			SILTY CLAY FILL MIX - 5 Y 4/2, olive gray, low plastictiy, dry with concrete gravel mixed	76
35	625			72
				63
			TRASH - plastic, metal, glass, red bricks, etc.	
36	624			69
				110
37	623			105
				109
38	622			165
				122
39	621			115
				196
40	620			109

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

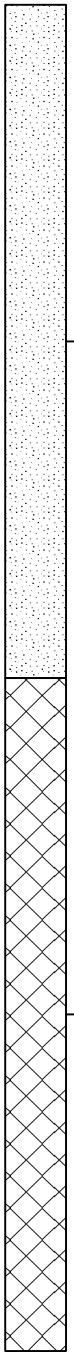
Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092285.84
Easting Coord.	: 409482.42

Logged By	[redacted]
Preliminary Elevation	: 658.41 ft msl
Final Elevation	: 658.49 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 658.49	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY - 5 YR 5/4, reddish brown, low to medium plasticity, dry	0
	658			6
1				80
	657		SILTY CLAY GRAVEL MIX - 5 Y 4/2, olive gray, low plasticity, dry with up to 1" gravel	135
2				130
	656			123
3				45
	655		TRASH - plastic, paper, wood, etc.	62
4				60
	654			0
5				30
	653			67
6				368
	652			334
7				1218
	651		no recovery from 7.5 to 10 feet	905
8				
	650			
9				
	649			
10				93



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BORING LOG SEA-ARC-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092285.84
Easting Coord.	: 409482.42

Logged By	[redacted]
Preliminary Elevation	: 658.41 ft msl
Final Elevation	: 658.49 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 658.49	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 7.5 to 10 feet	93
	648		SILTY CLAY MIX - 5 YR 4/4, reddish brown, with 5 Y 4/2, olive gray, low to medium plasticity, dry	16
11				165
	647		TRASH - plastic, paper, wood, etc.	161
12				101
	646			28
13				33
	645			55
14				69
	644			92
15				93
	643			73
16				29
	642			20
17			SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, dry	19
	641			25
18				169
	640		TRASH - plastic, paper, wood, etc.	230
19				525
	639			180
20				62

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BORING LOG SEA-ARC-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092285.84
Easting Coord.	: 409482.42

Logged By	: [redacted]
Preliminary Elevation	: 658.41 ft msl
Final Elevation	: 658.49 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 658.49	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			TRASH - plastic, paper, wood, etc.	62
	638		SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, slightly moist with 5 Y 4/2, olive gray, low to medium plasticity, slightly moist	3
21				11
	637			36
22			From 20 to 22 feet - elevated readings with surface scan	30
	636			25
23				123
	635			33
24				13
	634			135
25				186
	633		TRASH - paper, plastic, wood, etc.	25
26				79
	632			133
27				297
	631			415
28			SILTY CLAY - 5 YR 4/4, reddish brown, and 5 Y 4/2, olive gray, medium plasticity, slightly moist	320
	630		TRASH - paper, plastic, wood, etc.	462
29				169
	629			256
30				172

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BORING LOG SEA-ARC-2007

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/28/01
Date Completed	: 8/28/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092285.84
Easting Coord.	: 409482.42

Logged By	: [redacted]
Preliminary Elevation	: 658.41 ft msl
Final Elevation	: 658.49 ft msl
Total Core Recovery	: 93%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 658.49

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
30		TRASH - paper, plastic, wood, etc.	172
	628		241
31			77
	627		263
32			374
	626		591
33		SILT - 5 Y 4/2, olive gray, with trash mixed in	286
	625		382
34		TRASH - paper, plastic, wood, etc.	254
	624		181
35			77
	623		181
36			179
	622		85
37			92
	621		91
38		SILTY GRAVEL CLAY MIX - 5 YR 4/4, reddish brown, and 5 Y 4/2, olive gray, low to medium plasticity, slightly moist	7
	620		40
39			65
	619		61
40			146

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BORING LOG SEA-ARC-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 30.5 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092067.23
Easting Coord.	: 409590.58

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 662.58 ft msl
Total Core Recovery	: 86%

Notes:

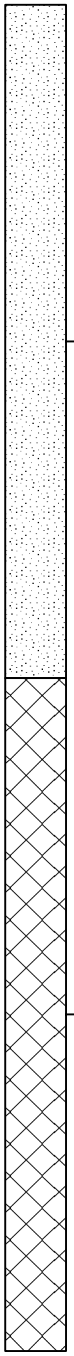
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 662.58	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY FILL - 5 YR 4/4, reddish brown, 2 to 3-inch sub-angular gravel, slightly moist, low plasticity, also red brick mixed in	0
	662			12
1				9
	661			0
2				7
	660			40
3				9
	659		TRASH - plastic, glass, wood, etc.	0
4				2
	658			119
5				119
	657			25
6				6
	656			55
7				19
	655			12
8			no recovery from 8 to 10 feet	59
	654			
9				
	653			
10				81



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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 30.5 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092067.23
Easting Coord.	: 409590.58

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 662.58 ft msl
Total Core Recovery	: 86%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 662.58	DESCRIPTION	Field Screening (PPM)
10		no recovery from 8 to 10 feet	81
		TRASH	
	652	SILTY CLAY FILL MIX - 5 YR 4/2, dark reddish gray, slightly moist, low plasticity, with mix of other clay, 5 Y 4/2, olive gray	42
11			19
	651		24
12			28
	650		27
13			10
	649		26
14		TRASH - plastic, wood, glass, etc.	51
	648		34
15		SILTY CLAY - 5 Y 4/2, olive gray, low plasticity, slightly moist	62
	647		5
16		TRASH - plastic, wood, glass	7
	646		3
17			13
	645		23
18		no recovery from 18 to 20 feet	12
	644		
19			
	643		
20			

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BORING LOG SEA-ARC-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 30.5 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092067.23
Easting Coord.	: 409590.58

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 662.58 ft msl
Total Core Recovery	: 86%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 662.58	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			no recovery from 18 to 20 feet	
	642		SILTY CLAY FILL - 5 Y 4/2, olive gray, low plasticity, slightly moist	7
21				12
	641		SILT - (ash), gley 1, 2.5/N, black, low to non-plastic, dry to slightly moist	4
22				7
	640			25
23				28
	639		TRASH - plastic, paper, wood, etc.	42
24				47
	638			39
25				10
	637		SILT - (ash), gley 1, 2.5/N, black, low to non-plastic, dry to slightly moist	14
26				2
	636			10
27			TRASH - plastic, wood, paper, etc.	13
	635			15
28				19
	634			25
29				108
	633			92
30				221

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BORING LOG SEA-ARC-2008

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 30.5 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092067.23
Easting Coord.	: 409590.58

Logged By	[redacted]
Preliminary Elevation	: N/A
Final Elevation	: 662.58 ft msl
Total Core Recovery	: 86%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 662.58	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			TRASH - plastic, wood, paper, etc.	221
	632			
31				
	631			
32				
	630			
33				
	629			
34				
	628			
35				
	627			
36				
	626			
37				
	625			
38				
	624			
39				
	623			
40				

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BORING LOG SEA-ARC-2009

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092094.41
Easting Coord.	: 409533.81

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

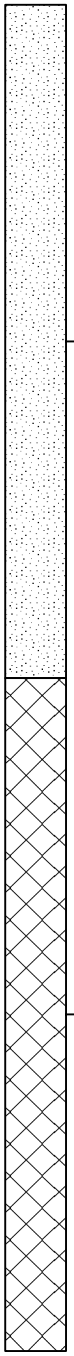
PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 666.13

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0	666	SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, slightly moist	0
			0
1	665		0
		SILTY CLAY FILL MIX - 5 YR 4/4, reddish brown, low to medium plasticity, with sub-rounded gravel, slightly moist	0
2	664		0
			1
3	663		10
		SILTY CLAY FILL MIX - 5 Y 4/2, olive gray, concrete, red brick mixed, dry, low to medium plasticity	19
4	662		25
		TRASH - plastic, paper, wood, with red brick	345
5	661		91
			55
6	660		60
		no recovery from 6.5 to 10 feet	72
7	659		
8	658		
9	657		
10			



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BORING LOG SEA-ARC-2009

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092094.41
Easting Coord.	: 409533.81

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 666.13

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10	656	no recovery from 6.5 to 10 feet	
		SILTY CLAY - 5 Y 4/2, olive gray, medium plasticity, moist	63
		TRASH - plastic, fibers, wood, metal	66
11	655		18
12	654		88
			83
13	653		0
			11
14	652		2
		no recovery from 14.5 to 20 feet	11
15	651		
16	650		
17	649		
18	648		
19	647		
20			

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BORING LOG SEA-ARC-2009

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092094.41
Easting Coord.	: 409533.81

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 666.13

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20	646	no recovery from 14.5 to 20 feet	
		SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, high plasticity, moist with trash mix	5
21	645	SILTY CLAY FILL TRASH MIX - 5 Y 4/2, olive gray, moist, low to medium plasticity, with trash	3
			7
22	644		9
			6
23	643		61
			42
24	642		23
			18
25	641		25
			3
26	640		87
			83
27	639		107
			81
28	638		26
			19
29	637	TRASH - paper, plastic, wood	18
			21
30			40

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BORING LOG SEA-ARC-2009

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092094.41
Easting Coord.	: 409533.81

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 666.13	DESCRIPTION	Field Screening (PPM)
30	636	TRASH - paper, plastic, wood	40
			5
31	635		6
			3
32	634	SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, low to medium plasticity, dry to slightly moist	2
			2
33	633		4
			6
34	632	TRASH - wood, plastic, glass, etc.	0
			1
35	631		3
		SILTY CLAY FILL TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, moist	2
36	630		4
		TRASH - plastic, wood, glass, etc.	9
37	629		3
			8
38	628		9
			8
39	627		7
			9
40			12

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Science Applications International Corporation
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BORING LOG SEA-ARC-2009

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092094.41
Easting Coord.	: 409533.81

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 666.13

Depth in Feet	Elev.	GRAPHIC	DESCRIPTION	Field Screening (PPM)
40	626		TRASH - plastic, wood, glass, etc.	12
			SILTY CLAY FILL MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist, sub-rounded gravel up to 2" in diameter	
41	625		TRASH - paper, plastic, glass, etc.	
42	624			
43	623			
44	622			
45	621			
46	620			
47	619			
48	618			
49	617			
50				

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2010

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
[redacted]	[redacted]
Northing Coord.	: 1092133.40
Easting Coord.	: 409505.38

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 84%

Notes:

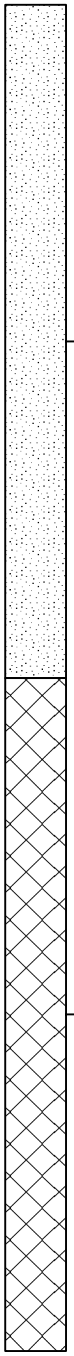
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 666.13	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	666		SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	0
				0
1	665			1
				1
2	664			1
			SILTY CLAY - 5 Y 3/1, very dark gray, low to medium plasticity, slightly moist, with large chunks (greater than 3") of concrete	2
3	663			3
				1
4	662		SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, slightly moist, some 1" sub-rounded gravel present	0
				3
5	661		no recovery from 5 to 10 feet	9
6	660			
7	659			
8	658			
9	657			
10				



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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092133.40
Easting Coord.	: 409505.38

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 84%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 666.13

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10	656	no recovery from 5 to 10 feet	
		SILTY CLAY MIX/TRASH - 5 YR 4/4, reddish brown, medium to high plasticity, moist, with trash - paper, glass, and metal	3
11	655		6
			2
12	654	SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, moist, gravel up to 4", sub-rounded	3
			20
13	653		15
		TRASH - paper, wood, plastic	2
14	652		2
			8
15	651		14
			96
16	650		118
			117
17	649		117
			93
18	648	no recovery from 18 to 20 feet	90
19	647		
20			

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BORING LOG SEA-ARC-2010

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092133.40
Easting Coord.	: 409505.38

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 84%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 666.13	DESCRIPTION	Field Screening (PPM)
20	646	no recovery from 18 to 20 feet	
		SILTY CLAY FILL MIX - 5 YR 4/4, reddish brown, medium to high plasticity, moist	9
21	645	TRASH - plastic, wood, paper	7
			2
22	644	SILTY CLAY AND TRASH - 5 YR 4/4, reddish brown, medium to high plasticity, moist, with trash	1
			0
		TRASH - paper, wood, glass, plastic	
23	643		6
			5
24	642		14
		SILT - gley 1, 2.5 N, black, non-plastic, slightly moist	9
25	641		2
			2
26	640		2
			3
27	639	SILTY CLAY FILL MIX - 5 Y 4/2, olive gray, low to medium plasticity, slightly moist, also mixed with concrete, red brick, asphalt	27
			35
28	638	TRASH - paper, plastic, glass, metal	13
			33
29	637		12
			9
30			25

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BORING LOG SEA-ARC-2010

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
[redacted]	[redacted]
Northing Coord.	: 1092133.40
Easting Coord.	: 409505.38

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 84%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 666.13

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
30	636	TRASH - paper, plastic, glass, metal	25
		SILTY CLAY - 5 YR 4/4, medium to high plasticity, slightly moist	3
31	635		3
		TRASH - paper, plastic, wood, etc.	32
32	634		2
			2
33	633		2
			1
34	632		2
			5
35	631	SILTY CLAY FILL MIX - 5 YR 4/4, reddish brown, medium to high plasticity, moist, mixed with 5 Y 4/2, olive gray	8
			10
36	630		13
		TRASH - paper, wood, plastic	25
37	629		34
			32
38	628		21
			45
		SILTY CLAY - 5 YR 4/4, olive gray, medium to high plasticity, moist with red brick	13
39	627	TRASH - paper, wood, plastic	63
40			67

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BORING LOG SEA-ARC-2010

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
[redacted]	[redacted]
Northing Coord.	: 1092133.40
Easting Coord.	: 409505.38

Logged By	[redacted]
Preliminary Elevation	: 666.06 ft msl
Final Elevation	: 666.13 ft msl
Total Core Recovery	: 84%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 666.13	GRAPHIC	DESCRIPTION	Field Screening (PPM)
40	626		TRASH - paper, wood, plastic	67
				7
41	625			53
			SILTY FILL/TRASH MIX - 5 Y 4/2, olive gray, medium plasticity, slightly moist	43
42	624			53
			TRASH - paper, wood, plastic	7
43	623		SILTY CLAY FILL/TRASH MIX - 5 YR 4/4, reddish brown, medium to high plasticity, moist, mixed with 5 Y 4/2, olive gray, low plasticity, slightly moist	13
				5
44	622			3
			TRASH - paper, wood, plastic	4
45	621			7
46	620			
47	619			
48	618			
49	617			
50				

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BORING LOG SEA-ARC-2011

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6" Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092160.58
Easting Coord.	: 409533.73

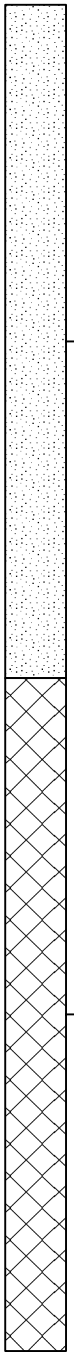
Logged By	[redacted]
Preliminary Elevation	: 665.66 ft msl
Final Elevation	: 665.77 ft msl
Total Core Recovery	: 82%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 665.77

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0		SILTY CLAY/LEAN CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, moist	1
	665		1
1			0
			0
	664		
2			0
			2
	663		
3			1
		SILTY CLAY FILL MIX - 5 Y 4/2, olive gray, low plasticity, slightly moist	0
	662		
4		TRASH - wood, glass, fabric, etc.	4
			17
	661		
5			40
			89
	660		
6			63
			68
	659	SILTY CLAY FILL MIX - 5 Y 4/4, reddish brown, medium plasticity, slightly moist, with 5 Y 4/2, olive gray, low plasticity, slightly moist	
7			79
			84
	658		
8			39
		TRASH - glass, plastic, paper	27
	657		
9			38
			37
	656		
10			149



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BORING LOG SEA-ARC-2011

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6" Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092160.58
Easting Coord.	: 409533.73

Logged By	[redacted]
Preliminary Elevation	: 665.66 ft msl
Final Elevation	: 665.77 ft msl
Total Core Recovery	: 82%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 665.77	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			TRASH - glass, plastic, paper	149
				163
	655			
11				89
				205
	654			
12				165
				197
	653			
13				203
				310
	652			
14				278
				269
			no recovery from 15 to 20 feet	
	651			
15				
	650			
16				
	649			
17				
	648			
18				
	647			
19				
	646			
20				60

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6" Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092160.58
Easting Coord.	: 409533.73

Logged By	: [redacted]
Preliminary Elevation	: 665.66 ft msl
Final Elevation	: 665.77 ft msl
Total Core Recovery	: 82%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 665.77

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
20		no recovery from 15 to 20 feet	60
		TRASH - plastic, paper, wood, metal	63
	645		
21			72
			69
	644		
22			65
			197
	643		
23			158
			219
	642		
24			205
			263
	641		
25			162
			139
	640		
26			205
			169
	639		
27		well sorted, fine-grained yellow material, 5 Y 8/8, yello	86
			186
	638	no recovery from 27.5 to 30 feet	
28			
	637		
29			
	636		
30			

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6" Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092160.58
Easting Coord.	: 409533.73

Logged By	: [redacted]
Preliminary Elevation	: 665.66 ft msl
Final Elevation	: 665.77 ft msl
Total Core Recovery	: 82%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 665.77

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
30		no recovery from 27.5 to 30 feet	
		TRASH - paper, plastic, metal, etc.	
	635		
31			
	634		
32			
	633		
33			
	632		
34		SILTY CLAY FILL MIX - 5 YR 6/4, light reddish brown with red brick, wood, and gravel up to 1"	
	631		
35		TRASH - paper, plastic, metal, etc.	
	630		
36			
	629		
37		SILTY CLAY FILL MIX - 5 YR 6/4, light reddish brown with red brick, wood, and gravel up to 1", low plasticity, dry	
	628		
38		TRASH - paper, plastic, lots of electrical wire	
	627		
39		SILTY CLAY FILL MIX - 5 YR 6/4 light reddish brown with red brick, wood, and gravel up to 1", low plasticity, dry	
	626		
40			

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 45 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6" Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092160.58
Easting Coord.	: 409533.73

Logged By	[redacted]
Preliminary Elevation	: 665.66 ft msl
Final Elevation	: 665.77 ft msl
Total Core Recovery	: 82%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 665.77

Depth in Feet	Elevation	DESCRIPTION	Field Screening (PPM)
40		SILTY CLAY FILL MIX - 5 YR 6/4 light reddish brown with red brick, wood, and gravel up to 1", low plasticity, dry	97
		TRASH - plastic, paper, wood, etc.	63
	625		69
41			21
	624		
42		SILTY CLAY - 5 YR 6/6, reddish yelllow, low plasticity, dry, large chunks of concrete	16
			27
	623		
43		TRASH - paper, wood, plastic, etc.	90
			165
	622		
44			93
			72
	621		
45			68
	620		
46			
	619		
47			
	618		
48			
	617		
49			
	616		
50			

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

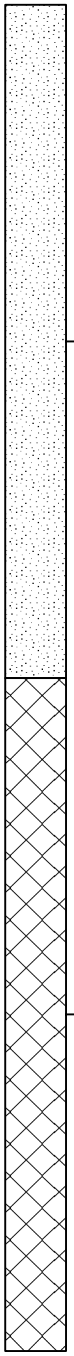
Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	[redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 690.05	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	690		SILTY LOAM - 5 YR 4/2, dark reddish gray, low plasticity, dry	0
				0
1	689		TRASH - paper, plastic, wood, etc.	0
				0
2	688			0
			no recovery from 2.5 to 5 feet	0
3	687			0
				2
4	686			6
				9
5	685		TRASH - paper, plastic, wood, etc.	10
				10
6	684			9
				6
7	683			6
			no recovery from 7.5 to 10 feet	1
8	682			
9	681			
10				



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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	[redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 690.05

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
10	680	no recovery from 7.5 to 10 feet	
		TRASH - paper, plastic, wood, etc.	0
11	679		0
		SILTY CLAY - 5 YR 4/4, reddish brown, medium plasticity to high plasticity, moist	0
12	678	TRASH - paper, plastic, wood, etc.	0
			7
13	677		10
		SILTY CLAY - 5 Y 5/2, olive gray, low to medium plasticity, moist	9
14	676	TRASH - paper, plastic, lots of asphalt	30
			28
15	675		14
			35
16	674		37
			9
17	673		11
			13
18	672		11
			5
19	671		11
			7
20			3

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Seaway Landfill
4825 River Road
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Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	[redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 690.05	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20	670		TRASH - paper, plastic, lots of asphalt	3
				4
21	669			7
				12
22	668			5
				7
23	667			7
				3
24	666			3
				1
25	665			1
				1
26	664			1
				59
27	663			68
				58
28	662			75
				135
29	661			159
				40
30				29

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	: [redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 690.05	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30	660		TRASH - paper, plastic, lots of asphalt	29
			SILTY GRAVEL FILL - 5 Y 5/3, olive, loose material, moist, rounded to sub-rounded gravel	12
31	659			12
				85
32	658		TRASH - paper, plastic, wood, no asphalt like above	107
				116
33	657			103
				116
34	656			105
				27
35	655			35
				19
36	654			36
				42
37	653		SILTY CLAY - 5 YR 4/4, reddish brown, medium plasticity, slightly moist	63
				17
38	652		TRASH - paper, plastic, wood, etc.	36
				29
39	651			33
				31
40				20

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BORING LOG SEA-ARC-2012

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	[redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 690.05	GRAPHIC	DESCRIPTION	Field Screening (PPM)
40	650		TRASH - paper, plastic, wood, etc.	20
			SILT - gley 1, 2.5N, black (ash), moist	12
41	649		TRASH - paper, plastic, wood, etc.	20
				57
42	648			5
				10
43	647			63
				109
44	646			184
				169
45	645			215
			no recovery from 45.5 to 50 feet	238
46	644			
47	643			
48	642			
49	641			
50				2

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Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	[redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 690.05	GRAPHIC	DESCRIPTION	Field Screening (PPM)
50	640		no recovery from 45.5 to 50 feet	2
			TRASH - paper, plastic, wood	3
51	639			3
				5
52	638			3
				8
53	637			5
				3
54	636			7
				3
55	635			5
				2
56	634			3
				3
57	633			3
				5
58	632			7
				3
59	631		SILTY CLAY - 5 YR 4/4, reddish brown, low plasticity, dry	3
				5
60				3

Backfilled with Landfill Material

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	[redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 690.05	GRAPHIC	DESCRIPTION	Field Screening (PPM)
60	630		SILTY CLAY - 5 YR 4/4, reddish brown, low plasticity, dry	3
			SILT - gley 1, 2.5 N, black (ash)	
61	629		Field screening was not conducted on the soils collected from 60 to 80 feet from boring SEA-ARC-2012	
			TRASH - paper, plastic, wood, some asphalt	
62	628		Elevated surface scan from 62 to 64 feet	
63	627		SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, dry	
64	626			
			TRASH	
65	625			
66	624		no recovery from 66 to 70 feet	
67	623			
68	622			
69	621			
70				

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Science Applications International Corporation
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BORING LOG SEA-ARC-2012

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/30/01
Date Completed	: 8/30/01
Hole Diameter	: 6 inches
Depth of Boring	: 80 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inches Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092040.18
Easting Coord.	: 409805.25

Logged By	[redacted]
Preliminary Elevation	: 689.72 ft msl
Final Elevation	: 690.05 ft msl
Total Core Recovery	: 83%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 690.05	GRAPHIC	DESCRIPTION	Field Screening (PPM)
70	620		no recovery from 66 to 70 feet TRASH - paper, plastic, etc.	
71	619			
72	618			
73	617			
74	616			
75	615			
76	614			
77	613			
78	612			
79	611			
80				

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Science Applications International Corporation
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BORING LOG SEA-ARC-2013

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 70 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092151.27
Easting Coord.	: 409706.54

Logged By	[redacted]
Preliminary Elevation	: 684.24 ft msl
Final Elevation	: 684.42 ft msl
Total Core Recovery	: 81%

Notes:

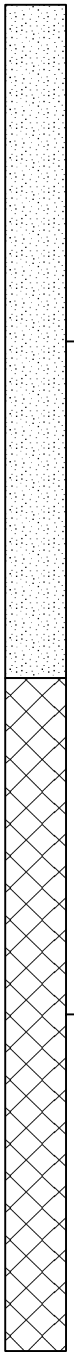
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 684.42	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, dry	0
	684			0
1				0
	683			0
2			no recovery from 2 to 10 feet	0
	682			
3				
	681			
4				
	680			
5				
	679			
6				
	678			
7				
	677			
8				
	676			
9				
	675			
10				12



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BORING LOG SEA-ARC-2013

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 70 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092151.27
Easting Coord.	: 409706.54

Logged By [redacted]

Final Elevation : 684.42 ft msl
Total Core Recovery : 81%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 684.42	DESCRIPTION	Field Screening (PPM)
10		no recovery from 2 to 10 feet	12
	674	SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, medium plasticity, moist	19
11			35
	673	TRASH - paper, plastic, glass	37
12			62
	672		17
13			35
	671		68
14			14
	670		19
15			35
	669	SILTY CLAY MIX - 5 YR 4/4, reddish brown, 5 Y 4/2, olive gray	265
16		TRASH - paper, plastic, glass	0
	668		45
17			0
	667		36
18			20
	666		15
19		no recovery from 19 to 20 feet	17
	665		
20			1

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BORING LOG SEA-ARC-2013

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 70 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092151.27
Easting Coord.	: 409706.54

Logged By	[redacted]
Preliminary Elevation	: 684.24 ft msl
Final Elevation	: 684.42 ft msl
Total Core Recovery	: 81%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 684.42	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20			no recovery from 19 to 20 feet	1
	664		TRASH - paper, plastic, wood, etc.	5
21				0
	663			2
22				0
	662			5
23			SILTY CLAY/TRASH, GRAVEL FILL MIX - 5 YR 4/4, reddish brown, medium plasticity, slightly moist, with 5 Y 4/2, olive gray, medium plasticity, moist, sub-rounded gravel up to 3", with trash mixed in	3
	661			6
24				27
	660			13
25			SILTY CLAY/TRASH, GRAVEL FILL MIX - 5 YR 4/4, reddish brown, medium plasticity, slightly moist, with 5 Y 4/2, olive gray, medium plasticity, moist, sub-rounded gravel up to 3", with trash mixed in, also with bricks	10
	659			33
26				39
	658			46
27				57
	657			52
28				53
	656			17
29				13
	655			21
30				25

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Science Applications International Corporation
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BORING LOG SEA-ARC-2013

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 70 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092151.27
Easting Coord.	: 409706.54

Logged By	[redacted]
Preliminary Elevation	: 684.24 ft msl
Final Elevation	: 684.42 ft msl
Total Core Recovery	: 81%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 684.42

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
30	654	SILTY CLAY/TRASH, GRAVEL FILL MIX - 5 YR 4/4, reddish brown, medium plasticity, slightly moist, with 5 Y 4/2, olive gray, medium plasticity, moist, sub-rounded gravel up to 3", with trash mixed in, also with bricks	25, 22
31	653	TRASH - paper, plastic, wood, etc.	16, 17
32	652		12, 52
33	651	SILT/TRASH MIX - gley 1, 2.5 N, black (ash), dry, with red brick	58, 216
34	650		265, 205
35	649		69, 26
36	648	white powdery substance, 5 Y 8/1, white with staining, gley 2, 3/5 PB, very dark blueish gray	2
37	647	SILTY CLAY GRAVEL MIX/FILL - gley 1, 2.5/N, black (ash), with 5 Y 4/2, olive gray, medium plasticity, with red brick	10, 14
38	646	TRASH - paper, plastic, wood (large chunks), etc., some gley 1, 2.5/N, black (ash) mixed in with trash	4, 0, 19
39	645		12, 3
40			7

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BORING LOG SEA-ARC-2013

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 70 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092151.27
Easting Coord.	: 409706.54

Logged By	[redacted]
Preliminary Elevation	: 684.24 ft msl
Final Elevation	: 684.42 ft msl
Total Core Recovery	: 81%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 684.42

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
40		TRASH - paper, plastic, wood (large chunks), etc., some gley 1, 2.5/N, black (ash) mixed in with trash	7
	644		5
41			15
	643		15
42			11
	642		15
43			11
	641		14
44			21
	640		9
45			28
	639		17
46			13
	638		5
47			8
	637		11
48			12
	636		12
49		plastic pellets, gray, peach, magenta colored	15
	635	TRASH - paper, plastic, wood, etc.	10
50			3

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BORING LOG SEA-ARC-2013

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 70 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092151.27
Easting Coord.	: 409706.54

Logged By	[redacted]
Preliminary Elevation	: 684.24 ft msl
Final Elevation	: 684.42 ft msl
Total Core Recovery	: 81%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 684.42

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
50		TRASH - paper, plastic, wood, etc.	3
	634	SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, slightly moist to moist	2
51			2
	633		7
52		TRASH - plastic mix	3
	632	SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, slightly moist to moist	12
53		TRASH - paper, plastic	17
	631		25
54		SILTY CLAY MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist, with 5 Y 4/2, olive gray, medium plasticity, slightly moist	35
	630	TRASH	16
55			25
	629		17
56		SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, some sub-rounded gravel, moist	12
	628		5
57		no recovery from 57 to 60 feet	3
	627		
58			
	626		
59			
	625		
60			12

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BORING LOG SEA-ARC-2013

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/29/01
Date Completed	: 8/29/01
Hole Diameter	: 6 inches
Depth of Boring	: 70 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092151.27
Easting Coord.	: 409706.54

Logged By	: [redacted]
Preliminary Elevation	: 684.24 ft msl
Final Elevation	: 684.42 ft msl
Total Core Recovery	: 81%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 684.42	GRAPHIC	DESCRIPTION	Field Screening (PPM)
60			no recovery from 57 to 60 feet	12
	624		TRASH - paper, plastic, etc.	13
61				7
	623			16
62				18
	622			35
63				52
	621			19
64				168
	620			116
65				53
	619			22
66				19
	618			16
67				13
	617			13
68				37
			no recovery from 68 to 70 feet	
	616			
69				
	615			
70				

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BORING LOG SEA-ARC-2014

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092197.59
Easting Coord.	: 409287.85

Logged By	[redacted]
Preliminary Elevation	: 632.93 ft msl
Final Elevation	: 633.22 ft msl
Total Core Recovery	: 55%

Notes:

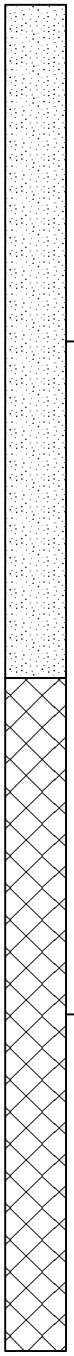
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 633.22	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	633		SILTY CLAY - 5 YR 4/4, reddish brown, high plasticity, moist	0
				0
1	632			0
				0
2	631		SILTY CLAY MIX - 2.5 Y 5/6, light olive brown, moist, low to medium plasticity	3
				1
3	630		TRASH AND LARGE CHUNK OF CONCRETE	17
				0
4	629		no recovery from 4 to 10 feet	2
5	628			
6	627			
7	626			
8	625			
9	624			
10				37



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BORING LOG SEA-ARC-2014

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092197.59
Easting Coord.	: 409287.85

Logged By	[redacted]
Preliminary Elevation	: 632.93 ft msl
Final Elevation	: 633.22 ft msl
Total Core Recovery	: 55%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 633.22	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	623		no recovery from 4 to 10 feet	37
			TRASH	16
11	622			19
				35
12	621			62
				57
13	620			61
				35
14	619			40
				49
15	618			73
				39
16	617			17
				25
17	616		no recovery from 17 to 20 feet	37
18	615			
19	614			
20				

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Science Applications International Corporation
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BORING LOG SEA-ARC-2015

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092290.23
Easting Coord.	: 409226.16

Logged By	: [redacted]
Preliminary Elevation	: 631.01 ft msl
Final Elevation	: 631.31 ft msl
Total Core Recovery	: 35%

Notes:

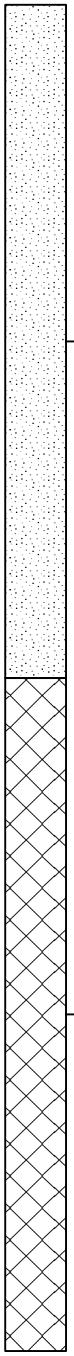
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 631.31	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	631		SILTY CLAY - 5 YR 4/4, reddish brown, high plasticity, dry, with red brick mixed in	0
				0
1	630			0
				0
2	629		ASPHALT	17
			TRASH	23
3	628			46
				49
4	627		no recovery from 4 to 10 feet	78
5	626			
6	625			
7	624			
8	623			
9	622			
10				



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BORING LOG SEA-ARC-2015

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092290.23
Easting Coord.	: 409226.16

Logged By	[redacted]
Preliminary Elevation	: 631.01 ft msl
Final Elevation	: 631.31 ft msl
Total Core Recovery	: 35%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 631.31	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	621		no recovery from 4 to 10 feet TRASH	29
11	620			35 69
12	619			73 43
13	618		no recovery from 13 to 20 feet	47
14	617			
15	616			
16	615			
17	614			
18	613			
19	612			
20				

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Science Applications International Corporation
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BORING LOG SEA-ARC-2016

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092367.39
Easting Coord.	: 409170.49

Logged By	[redacted]
Preliminary Elevation	: 629.16 ft msl
Final Elevation	: 629.49 ft msl
Total Core Recovery	: 52%

Notes:

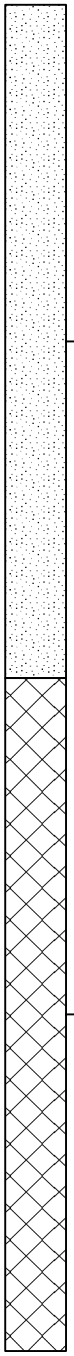
Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 629.49	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0			SILTY CLAY - 5 YR 4/4, reddish brown, high plasticity, dry	0
	629			0
1				0
	628			8
			TRASH WITH MIX OF FILL - rubble, concrete, SILTY CLAY - 5 YR 4/4 reddish brown, dry, low to medium plasticity	
2				15
	627			19
3				35
	626			12
			SILTY CLAY - 5 YR 5/3, reddish brown, high plasticity, moist, with red brick mixed in	
4				0
	625			3
			no recovery from 4.5 to 10 feet	
5				
	624			
6				
	623			
7				
	622			
8				
	621			
9				
	620			
10				12



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BORING LOG SEA-ARC-2016

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 20 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092367.39
Easting Coord.	: 409170.49

Logged By	: [redacted]
Preliminary Elevation	: 629.16 ft msl
Final Elevation	: 629.49 ft msl
Total Core Recovery	: 52%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 629.49	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 4.5 to 10 feet	12
	619		SILTY FILL MIX - 5 YR 3/4, dark reddish brown, low plasticity, with trash, paper, fibers	22
11			SILTY CLAY MIX - some 5 YR 4/4, reddish brown, high plasticity, moist, with gley 1 4/10Y, dark greenish gray, medium to low plasticity, with large gravel up to 6", sub-rounded, and red brick	30
	618			0
12				0
	617			0
13				0
	616			0
14				0
	615			17
15			TRASH	35
	614			39
16			no recovery from 16 to 20 feet	62
	613			
17				
	612			
18				
	611			
19				
	610			
20				

Backfilled with Landfill Material

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Science Applications International Corporation
An Employee-Owned Company

BORING LOG SEA-ARC-2017

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092096.72
Easting Coord.	: 409349.02

Logged By	[redacted]
Preliminary Elevation	: 638.31 ft msl
Final Elevation	: 637.53 ft msl
Total Core Recovery	: 88%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 637.53

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
0		SILTY CLAY MIX - 5 YR 5/6, yellowish red, low to medium plasticity, dry	0
	637		0
1			0
	636	TRASH - red brick, concrete	0
2			2
	635		1
3			3
	634	no recovery from 3.5 to 10 feet	17
4			
	633		
5			
	632		
6			
	631		
7			
	630		
8			
	629		
9			
	628		
10			

Hydrated Bentonite Pellets

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
[redacted]	[redacted]
Northing Coord.	: 1092096.72
Easting Coord.	: 409349.02

Logged By [redacted]
[redacted]
Final Elevation : 637.53 ft msl
Total Core Recovery : 88%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 637.53	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10			no recovery from 3.5 to 10 feet	
	627		SILTY CLAY MIX - 5 YR 4/4, reddish brown, medium to high plasticity, with 1-inch gravel, sub-rounded, some wood, plastic, glass	
11				
	626			
12			From 10 to 14 feet - elevated surface scan readings	
	625			
13				
	624			
14			TRASH	
	623			
15			SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, moist	0
	622			0
16			TRASH	12
	621			39
17			SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, moist, with some (little) plastic, and wood	65
	620			13
18				12
	619			11
19				17
	618			42
20				38

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BORING LOG SEA-ARC-2017

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092096.72
Easting Coord.	: 409349.02

Logged By	[redacted]
Preliminary Elevation	: 638.31 ft msl
Final Elevation	: 637.53 ft msl
Total Core Recovery	: 88%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 637.53

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20		SILTY CLAY - 5 YR 4/4, reddish brown, medium to high plasticity, moist, with some (little) plastic, and wood	38
	617	TRASH MIX WITH SILTY CLAY AND WOOD - 5 YR 4/4, reddish brown, medium to high plasticity	64
21			37
	616		25
22			19
	615		17
23			13
	614		12
24			13
	613		17
25		SILTY CLAY MIX - 5 YR 4/4, reddish brown, medium plasticity, with 5 Y 4/2, olive gray, medium plasticity, some trash, ceramic tile mixed in	36
	612		16
26			35
	611		17
27		TRASH AND RED BRICK	62
	610		37
28			42
	609		29
29		RED BRICK	17
	608		3
30			5

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BORING LOG SEA-ARC-2017

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 40 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092096.72
Easting Coord.	: 409349.02

Logged By [redacted]
[redacted]
Final Elevation : 637.53 ft msl
Total Core Recovery : 88%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 637.53	GRAPHIC	DESCRIPTION	Field Screening (PPM)
30			RED BRICK	5
	607		FINE SAND WITH SILT - gley 1, 2.5/N, black, moist	
31			SILTY CLAY MIX - 5 YR 4/4, reddish brown, medium plasticity with gley 1, 2.5/N, low plasticity, moist, black, silty material, very strong odor, ash-like	
	606			
32				
	605			
33				
	604			
34				
	603			
35			SILTY CLAY - 5 YR 4/4, reddish brown, medium plasticity with gley 1, 2.5/N, low plasticity, black, silty material, very strong odor, ash-like	1
	602			3
36				4
	601			4
37				3
	600		CLAY - 5 YR 4/4, reddish brown, high plasticity, slightly moist	3
38				0
	599			0
39				0
	598			0
40				0

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BORING LOG SEA-ARC-2018

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	[redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092436.53
Easting Coord.	: 409277.40

Logged By	[redacted]
Preliminary Elevation	: 644.39 ft msl
Final Elevation	: 644.16 ft msl
Total Core Recovery	: 86%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 644.16	DESCRIPTION	Field Screening (PPM)
0	644	SILTY CLAY - 5 YR 4/2, dark reddish gray, medium to high plasticity, slightly moist	0
			0
1	643		0
			0
2	642	concrete rubble	0
			0
3	641	no recovery from 3 to 5 feet	0
4	640		
5	639	TRASH - plastic, wood, glass	68
			105
6	638		130
			205
7	637		185
			169
8	636	no recovery from 8 to 10 feet	125
9	635		
10			0

Hydrated Bentonite Pellets

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BORING LOG SEA-ARC-2018

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092436.53
Easting Coord.	: 409277.40

Logged By	[redacted]
Preliminary Elevation	: 644.39 ft msl
Final Elevation	: 644.16 ft msl
Total Core Recovery	: 86%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 644.16	DESCRIPTION	Field Screening (PPM)
10	634	no recovery from 8 to 10 feet	0
		TRASH	0
11	633	SILTY CLAY - 5 Y4 5/4, reddish brown, medium to high plasticity, moist, 2" to 3" sub-rounded cobbles	0
			0
12	632		0
		SILTY CLAY FILL - gley 1, 2.5/N, black, low plasticity, moist with 1" to 2" sub-rounded gravel, with some 5 YR 5/4, reddish brown, moist, medium to high plasticity	2
13	631		0
			0
14	630		37
		TRASH	38
15	629		52
		SILTY CLAY FILL MIX - gley 1, 4/10Y, dark grayish green, with gley 1, 6/5 GY, greenish gray	7
16	628		6
			9
17	627	SILTY SANDY FILL - gley 1, 2.5/N, black, coarse sand, with rounded gravel, low plasticity, moist	3
			0
18	626		12
		TRASH	19
19	625		
20			15

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BORING LOG SEA-ARC-2018

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 8/31/01
Date Completed	: 8/31/01
Hole Diameter	: 6 inches
Depth of Boring	: 30 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	[redacted]
Northing Coord.	: 1092436.53
Easting Coord.	: 409277.40

Logged By	: [redacted]
Preliminary Elevation	: 644.39 ft msl
Final Elevation	: 644.16 ft msl
Total Core Recovery	: 86%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 644.16	GRAPHIC	DESCRIPTION	Field Screening (PPM)
20	624		TRASH	15
				16
21	623			12
				17
22	622			21
				28
23	621			30
				65
24	620			17
				33
25	619			25
				39
26	618			65
				127
27	617			39
				65
28	616			73
				65
29	615			68
				125
30				139

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BORING LOG SEA-ARC-2019

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

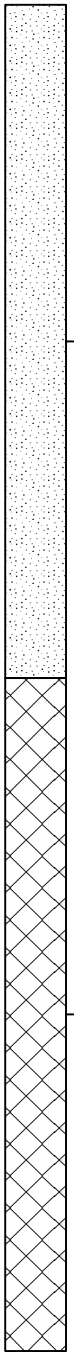
Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 60 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092314.11
Easting Coord.	: 409522.84

Logged By	[redacted]
Preliminary Elevation	: 668.66 ft msl
Final Elevation	: 668.09 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 668.09	GRAPHIC	DESCRIPTION	Field Screening (PPM)
0	668		concrete/asphalt mix	0
				3
1	667			3
				0
2	666		no recovery from 2 to 5 feet	20
3	665			
4	664			
5	663		concrete rubble	3
				12
6	662			2
				2
7	661			13
				38
8	660		TRASH - paper, plastic, wood, etc.	38
				47
9	659			54
				54
10				7



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BORING LOG SEA-ARC-2019

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 60 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092314.11
Easting Coord.	: 409522.84

Logged By	[redacted]
Preliminary Elevation	: 668.66 ft msl
Final Elevation	: 668.09 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 668.09	GRAPHIC	DESCRIPTION	Field Screening (PPM)
10	658		TRASH - paper, plastic, wood, etc.	7
				3
11	657			7
				32
12	656			109
				64
13	655			60
				80
14	654			14
				66
15	653			57
				53
16	652		no recovery from 15.5 to 20 feet	
17	651			
18	650			
19	649			
20				8

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 60 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092314.11
Easting Coord.	: 409522.84

Logged By	[redacted]
Preliminary Elevation	: 668.66 ft msl
Final Elevation	: 668.09 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 668.09

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
20	648	no recovery from 15.5 to 20 feet	8
		TRASH/SILT MIX - gley 1, 2.5/N, black (ash-like material), slightly moist	8
21	647		10
		From 21 to 27 feet - elevated levels in surface scanning	2
22	646		19
		TRASH - paper, wood, plastic, etc.	4
23	645		20
			76
24	644		121
			131
25	643		108
			80
26	642		45
			60
27	641	no recovery from 27 to 30 feet	57
28	640		
29	639		
30			

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Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 60 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092314.11
Easting Coord.	: 409522.84

Logged By	[redacted]
Preliminary Elevation	: 668.66 ft msl
Final Elevation	: 668.09 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Surf. Elev. 668.09

Depth in Feet	Elev.	DESCRIPTION	Field Screening (PPM)
30	638	no recovery from 27 to 30 feet	
		SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	
31	637		
32	636		
33	635	SILTY CLAY GRAVEL - 5 YR 4/4, reddish brown, with 1" sub-rounded gravels	
34	634		
		SILTY CLAY TRASH MIX - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	
35	633		21
			15
36	632		20
			240
37	631	TRASH - paper, plastic, wood, etc.	55
			70
38	630		128
			229
39	629		169
			659
40			112

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BORING LOG SEA-ARC-2019

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 60 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092314.11
Easting Coord.	: 409522.84

Logged By	[redacted]
Preliminary Elevation	: 668.66 ft msl
Final Elevation	: 668.09 ft msl
Total Core Recovery	: 80%

Notes:

Elevations represented in feet above mean sea level (msl)

PPM - parts per million

N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 668.09	GRAPHIC	DESCRIPTION	Field Screening (PPM)
40	628		TRASH - paper, plastic, wood, etc.	112
			TRASH FILL MIX - fill is concrete rubble	30
41	627			33
				11
42	626			17
				15
43	625			15
				12
44	624			27
				9
45	623			23
				10
46	622			12
				10
47	621			26
				10
48	620			10
				13
49	619		no recovery from 49 to 50 feet	12
50				9

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BORING LOG SEA-ARC-2019

Seaway Landfill
4825 River Road
Tonawanda, NY

Project #01-0801-08-5600-160

Date Started	: 9/4/01
Date Completed	: 9/4/01
Hole Diameter	: 6 inches
Depth of Boring	: 60 feet
Drilling Method	: Rotosonic 5101
Sampling Method	: 6 inch Core barrel
Company Name	: [redacted]
Company Rep.	: [redacted]
Northing Coord.	: 1092314.11
Easting Coord.	: 409522.84

Logged By	[redacted]
Preliminary Elevation	: 668.66 ft msl
Final Elevation	: 668.09 ft msl
Total Core Recovery	: 80%

Notes:
Elevations represented in feet above mean sea level (msl)
PPM - parts per million
N/A - not applicable

Boring Completion Details:
Elev.: N/A

Depth in Feet	Surf. Elev. 668.09	DESCRIPTION	Field Screening (PPM)
50	618	no recovery from 49 to 50 feet	9
		TRASH - paper, plastic, wood, without concrete rubble	4
51	617		2
			6
52	616	SILTY CLAY - 5 YR 4/4, reddish brown, low to medium plasticity, slightly moist	8
		SILTY/TRASH/GRAVEL MIX - gley 1, 2.5N, black (ash-like), dry	4
53	615		2
			2
54	614		3
			3
55	613		4
			2
56	612	SILT - gley 1, 2.5N, black (ash-like), dry	6
			10
57	611		3
		chalk-like material, gley 1, 6" thick	22
58	610	SILT - gley 1, 2.5N, black (ash-like), dry	0
			0
59	609		2
		trash in bottom of core indicates trash below 60 feet	2
60			1

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EXHIBIT D

DOWN-HOLE GAMMA MEASUREMENTS

EXHIBIT D

DOWN-HOLE GAMMA MEASUREMENTS

Exhibit D contains down-hole gamma measurement data from the 2001 Seaway investigation. These data were collected using a shielded 2-inch by 2-inch sodium iodide detector lowered down a PVC-lined borehole. Gamma measurements were collected at 6-inch intervals by positioning the detector to the designated depth below ground surface then integrating radiation "counts" over a one minute period. The following 67 pages present the compiled down-hole gamma measurements for all boreholes. Seven columns of information/data are presented:

1. Borehole – The borehole name with format AAABBB#### where AAA is always "SEA" for Seaway; BBB refers to the areas COR for correlation, ARA for Area A, ARB for Area B, or ARC for Area C; and #### refers to the assigned borehole number.
2. Date and Time – The date and time down-hole measurements began at each borehole using the format DDMMYY:H:M:S.
3. Depth (ft.) – The depth in feet (ft.) below ground surface that each measurement was collected.
4. Depth (in.) – The depth in inches (in.) below ground surface that each measurement was collected.
5. Elevation (ft.) – The elevation in feet (ft.) of each measurement location relative to sea level.
6. BHP Results (cpm) – The gamma measurement by the borehole probe (BHP) presented in counts per minute (cpm).
7. BHP Dup. (cpm) – Duplicate BHP results presented in counts per minute (cpm).

Result for individual boreholes are separated by a solid horizontal line for ease of reference.

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARA1001	16Aug2001:10:45:00	0.0	0	642.26	5494	
SEAARA1001	16Aug2001:10:45:00	0.5	6	641.76	7574	
SEAARA1001	16Aug2001:10:45:00	1.0	12	641.26	8434	
SEAARA1001	16Aug2001:10:45:00	1.5	18	640.76	7218	
SEAARA1001	16Aug2001:10:45:00	2.0	24	640.26	7229	
SEAARA1001	16Aug2001:10:45:00	2.5	30	639.76	8233	
SEAARA1001	16Aug2001:10:45:00	3.0	36	639.26	7720	
SEAARA1001	16Aug2001:10:45:00	3.5	42	638.76	7091	
SEAARA1001	16Aug2001:10:45:00	4.0	48	638.26	6482	
SEAARA1001	16Aug2001:10:45:00	4.5	54	637.76	7650	
SEAARA1001	16Aug2001:10:45:00	5.0	60	637.26	6869	
SEAARA1001	16Aug2001:10:45:00	5.5	66	636.76	4050	3980
SEAARA1001	16Aug2001:10:45:00	6.0	72	636.26	2991	
SEAARA1001	16Aug2001:10:45:00	6.5	78	635.76	2806	
SEAARA1001	16Aug2001:10:45:00	7.0	84	635.26	3223	
SEAARA1001	16Aug2001:10:45:00	7.5	90	634.76	3690	
SEAARA1001	16Aug2001:10:45:00	8.0	96	634.26	5093	
SEAARA1001	16Aug2001:10:45:00	8.5	102	633.76	7406	
SEAARA1001	16Aug2001:10:45:00	9.0	108	633.26	9397	
SEAARA1001	16Aug2001:10:45:00	9.5	114	632.76	10939	
SEAARA1001	16Aug2001:10:45:00	10.0	120	632.26	8531	8127
SEAARA1001	16Aug2001:10:45:00	10.5	126	631.76	6769	
SEAARA1001	16Aug2001:10:45:00	11.0	132	631.26	5585	
SEAARA1001	16Aug2001:10:45:00	11.5	138	630.76	4348	
SEAARA1001	16Aug2001:10:45:00	12.0	144	630.26	2796	
SEAARA1001	16Aug2001:10:45:00	12.5	150	629.76	2231	
SEAARA1001	16Aug2001:10:45:00	13.0	156	629.26	2639	
SEAARA1001	16Aug2001:10:45:00	13.5	162	628.76	4031	
SEAARA1001	16Aug2001:10:45:00	14.0	168	628.26	6682	
SEAARA1001	16Aug2001:10:45:00	14.5	174	627.76	6296	
SEAARA1001	16Aug2001:10:45:00	15.0	180	627.26	4751	
SEAARA1001	16Aug2001:10:45:00	15.5	186	626.76	2498	
SEAARA1001	16Aug2001:10:45:00	16.0	192	626.26	2302	
SEAARA1001	16Aug2001:10:45:00	16.5	198	625.76	2603	2593
SEAARA1001	16Aug2001:10:45:00	17.0	204	625.26	3825	
SEAARA1001	16Aug2001:10:45:00	17.5	210	624.76	6989	
SEAARA1001	16Aug2001:10:45:00	18.0	216	624.26	9328	
SEAARA1001	16Aug2001:10:45:00	18.5	222	623.76	9217	
SEAARA1001	16Aug2001:10:45:00	19.0	228	623.26	8941	
SEAARA1001	16Aug2001:10:45:00	19.5	234	622.76	8882	
SEAARA1001	16Aug2001:10:45:00	20.0	240	622.26	8046	7995
SEAARA1002	16Aug2001:14:40:00	0.0	0	639.42	8113	8082
SEAARA1002	16Aug2001:14:40:00	0.5	6	638.92	10517	
SEAARA1002	16Aug2001:14:40:00	1.0	12	638.42	20337	
SEAARA1002	16Aug2001:14:40:00	1.5	18	637.92	27547	
SEAARA1002	16Aug2001:14:40:00	2.0	24	637.42	27569	28767
SEAARA1002	16Aug2001:14:40:00	2.5	30	636.92	15826	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARA1002	16Aug2001:14:40:00	3.0	36	636.42	12415	
SEAARA1002	16Aug2001:14:40:00	3.5	42	635.92	12197	
SEAARA1002	16Aug2001:14:40:00	4.0	48	635.42	11384	
SEAARA1002	16Aug2001:14:40:00	4.5	54	634.92	9167	
SEAARA1002	16Aug2001:14:40:00	5.0	60	634.42	8115	8104
SEAARA1002	16Aug2001:14:40:00	5.5	66	633.92	7068	7244
SEAARA1002	16Aug2001:14:40:00	6.0	72	633.42	4965	
SEAARA1002	16Aug2001:14:40:00	6.5	78	632.92	3884	
SEAARA1002	16Aug2001:14:40:00	7.0	84	632.42	3059	
SEAARA1002	16Aug2001:14:40:00	7.5	90	631.92	2258	
SEAARA1002	16Aug2001:14:40:00	8.0	96	631.42	2521	
SEAARA1002	16Aug2001:14:40:00	8.5	102	630.92	3512	
SEAARA1002	16Aug2001:14:40:00	9.0	108	630.42	4316	
SEAARA1002	16Aug2001:14:40:00	9.5	114	629.92	5069	
SEAARA1002	16Aug2001:14:40:00	10.0	120	629.42	7025	
SEAARA1002	16Aug2001:14:40:00	10.5	126	628.92	10453	
SEAARA1002	16Aug2001:14:40:00	11.0	132	628.42	7353	
SEAARA1002	16Aug2001:14:40:00	11.5	138	627.92	5231	
SEAARA1002	16Aug2001:14:40:00	12.0	144	627.42	4600	
SEAARA1002	16Aug2001:14:40:00	12.5	150	626.92	3122	
SEAARA1002	16Aug2001:14:40:00	13.0	156	626.42	3996	
SEAARA1002	16Aug2001:14:40:00	13.5	162	625.92	3873	
SEAARA1002	16Aug2001:14:40:00	14.0	168	625.42	2536	
SEAARA1002	16Aug2001:14:40:00	14.5	174	624.92	2588	
SEAARA1002	16Aug2001:14:40:00	15.0	180	624.42	3975	3924
SEAARA1002	16Aug2001:14:40:00	15.5	186	623.92	8181	
SEAARA1002	16Aug2001:14:40:00	16.0	192	623.42	12779	
SEAARA1002	16Aug2001:14:40:00	16.5	198	622.92	15644	
SEAARA1002	16Aug2001:14:40:00	17.0	204	622.42	12849	
SEAARA1002	16Aug2001:14:40:00	17.5	210	621.92	8894	
SEAARA1002	16Aug2001:14:40:00	18.0	216	621.42	8525	
SEAARA1002	16Aug2001:14:40:00	18.5	222	620.92	7006	
SEAARA1002	16Aug2001:14:40:00	19.0	228	620.42	4868	
SEAARA1002	16Aug2001:14:40:00	19.5	234	619.92	5124	
SEAARA1002	16Aug2001:14:40:00	20.0	240	619.42	7412	7447
SEAARA1002	16Aug2001:14:40:00	20.5	246	618.92	8192	
SEAARA1002	16Aug2001:14:40:00	21.0	252	618.42	9794	
SEAARA1002	16Aug2001:14:40:00	21.5	258	617.92	9524	
SEAARA1002	16Aug2001:14:40:00	22.0	264	617.42	9331	
SEAARA1002	16Aug2001:14:40:00	22.5	270	616.92	8331	
SEAARA1002	16Aug2001:14:40:00	23.0	276	616.42	5164	6021
SEAARA1003	17Aug2001:17:55:00	0.0	0	634.20	6197	
SEAARA1003	17Aug2001:17:55:00	0.5	6	633.70	6996	
SEAARA1003	17Aug2001:17:55:00	1.0	12	633.20	7030	
SEAARA1003	17Aug2001:17:55:00	1.5	18	632.70	5732	
SEAARA1003	17Aug2001:17:55:00	2.0	24	632.20	4418	
SEAARA1003	17Aug2001:17:55:00	2.5	30	631.70	3656	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARA1003	17Aug2001:17:55:00	3.0	36	631.20	2724	
SEAARA1003	17Aug2001:17:55:00	3.5	42	630.70	2890	
SEAARA1003	17Aug2001:17:55:00	4.0	48	630.20	2330	
SEAARA1003	17Aug2001:17:55:00	4.5	54	629.70	1880	
SEAARA1003	17Aug2001:17:55:00	5.0	60	629.20	2240	2318
SEAARA1003	17Aug2001:17:55:00	5.5	66	628.70	2831	
SEAARA1003	17Aug2001:17:55:00	6.0	72	628.20	3092	
SEAARA1003	17Aug2001:17:55:00	6.5	78	627.70	3787	
SEAARA1003	17Aug2001:17:55:00	7.0	84	627.20	4184	
SEAARA1003	17Aug2001:17:55:00	7.5	90	626.70	3238	
SEAARA1003	17Aug2001:17:55:00	8.0	96	626.20	2507	
SEAARA1003	17Aug2001:17:55:00	8.5	102	625.70	2055	
SEAARA1003	17Aug2001:17:55:00	9.0	108	625.20	1785	
SEAARA1003	17Aug2001:17:55:00	9.5	114	624.70	1819	
SEAARA1003	17Aug2001:17:55:00	10.0	120	624.20	2169	2087
SEAARA1003	17Aug2001:17:55:00	10.5	126	623.70	2844	
SEAARA1003	17Aug2001:17:55:00	11.0	132	623.20	2258	
SEAARA1003	17Aug2001:17:55:00	11.5	138	622.70	1820	
SEAARA1003	17Aug2001:17:55:00	12.0	144	622.20	1730	
SEAARA1003	17Aug2001:17:55:00	12.5	150	621.70	2018	
SEAARA1003	17Aug2001:17:55:00	13.0	156	621.20	2528	
SEAARA1003	17Aug2001:17:55:00	13.5	162	620.70	2834	
SEAARA1003	17Aug2001:17:55:00	14.0	168	620.20	3733	
SEAARA1003	17Aug2001:17:55:00	14.5	174	619.70	5762	
SEAARA1003	17Aug2001:17:55:00	15.0	180	619.20	6409	6352
SEAARA1003	17Aug2001:17:55:00	15.5	186	618.70	5570	
SEAARA1003	17Aug2001:17:55:00	16.0	192	618.20	4893	
SEAARA1003	17Aug2001:17:55:00	16.5	198	617.70	5508	
SEAARA1003	17Aug2001:17:55:00	17.0	204	617.20	4462	
SEAARA1003	17Aug2001:17:55:00	17.5	210	616.70	3408	
SEAARA1003	17Aug2001:17:55:00	18.0	216	616.20	4348	
SEAARA1003	17Aug2001:17:55:00	18.5	222	615.70	5269	
SEAARA1003	17Aug2001:17:55:00	19.0	228	615.20	4261	4322
SEAARA1004	17Aug2001:11:30:00	0.0	0	642.70	30430	
SEAARA1004	17Aug2001:11:30:00	0.5	6	642.20	61120	
SEAARA1004	17Aug2001:11:30:00	1.0	12	641.70	76929	
SEAARA1004	17Aug2001:11:30:00	1.5	18	641.20	61571	
SEAARA1004	17Aug2001:11:30:00	2.0	24	640.70	59821	
SEAARA1004	17Aug2001:11:30:00	2.5	30	640.20	58111	
SEAARA1004	17Aug2001:11:30:00	3.0	36	639.70	40286	
SEAARA1004	17Aug2001:11:30:00	3.5	42	639.20	26448	
SEAARA1004	17Aug2001:11:30:00	4.0	48	638.70	18803	
SEAARA1004	17Aug2001:11:30:00	4.5	54	638.20	18517	
SEAARA1004	17Aug2001:11:30:00	5.0	60	637.70	20258	
SEAARA1004	17Aug2001:11:30:00	5.5	66	637.20	21120	
SEAARA1004	17Aug2001:11:30:00	6.0	72	636.70	20693	20509
SEAARA1004	17Aug2001:11:30:00	6.5	78	636.20	17140	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARA1004	17Aug2001:11:30:00	7.0	84	635.70	11663	
SEAARA1004	17Aug2001:11:30:00	7.5	90	635.20	9738	
SEAARA1004	17Aug2001:11:30:00	8.0	96	634.70	7353	
SEAARA1004	17Aug2001:11:30:00	8.5	102	634.20	5385	
SEAARA1004	17Aug2001:11:30:00	9.0	108	633.70	4244	
SEAARA1004	17Aug2001:11:30:00	9.5	114	633.20	5505	
SEAARA1004	17Aug2001:11:30:00	10.0	120	632.70	7267	7821
SEAARA1004	17Aug2001:11:30:00	10.5	126	632.20	9734	
SEAARA1004	17Aug2001:11:30:00	11.0	132	631.70	9591	
SEAARA1004	17Aug2001:11:30:00	11.5	138	631.20	13059	
SEAARA1004	17Aug2001:11:30:00	12.0	144	630.70	23213	
SEAARA1004	17Aug2001:11:30:00	12.5	150	630.20	27624	31230
SEAARA1004	17Aug2001:11:30:00	13.0	156	629.70	12165	
SEAARA1004	17Aug2001:11:30:00	13.5	162	629.20	8449	
SEAARA1004	17Aug2001:11:30:00	14.0	168	628.70	7534	
SEAARA1004	17Aug2001:11:30:00	14.5	174	628.20	6517	
SEAARA1004	17Aug2001:11:30:00	15.0	180	627.70	6456	6309
SEAARA1004	17Aug2001:11:30:00	15.5	186	627.20	3574	
SEAARA1004	17Aug2001:11:30:00	16.0	192	626.70	1966	
SEAARA1004	17Aug2001:11:30:00	16.5	198	626.20	1366	
SEAARA1004	17Aug2001:11:30:00	17.0	204	625.70	1322	
SEAARA1004	17Aug2001:11:30:00	17.5	210	625.20	2589	
SEAARA1004	17Aug2001:11:30:00	18.0	216	624.70	4655	
SEAARA1004	17Aug2001:11:30:00	18.5	222	624.20	3817	
SEAARA1004	17Aug2001:11:30:00	19.0	228	623.70	3216	2429
SEAARA2001	17Aug2001:09:50:00	0.0	0	636.24	33851	
SEAARA2001	17Aug2001:09:50:00	0.5	6	635.74	62911	
SEAARA2001	17Aug2001:09:50:00	1.0	12	635.24	28516	
SEAARA2001	17Aug2001:09:50:00	1.5	18	634.74	13670	
SEAARA2001	17Aug2001:09:50:00	2.0	24	634.24	8470	
SEAARA2001	17Aug2001:09:50:00	2.5	30	633.74	9017	
SEAARA2001	17Aug2001:09:50:00	3.0	36	633.24	4836	
SEAARA2001	17Aug2001:09:50:00	3.5	42	632.74	3249	
SEAARA2001	17Aug2001:09:50:00	4.0	48	632.24	2296	
SEAARA2001	17Aug2001:09:50:00	4.5	54	631.74	2648	
SEAARA2001	17Aug2001:09:50:00	5.0	60	631.24	3054	3064
SEAARA2001	17Aug2001:09:50:00	5.5	66	630.74	2725	
SEAARA2001	17Aug2001:09:50:00	6.0	72	630.24	3491	
SEAARA2001	17Aug2001:09:50:00	6.5	78	629.74	3203	
SEAARA2001	17Aug2001:09:50:00	7.0	84	629.24	2939	
SEAARA2001	17Aug2001:09:50:00	7.5	90	628.74	2709	
SEAARA2001	17Aug2001:09:50:00	8.0	96	628.24	2793	
SEAARA2001	17Aug2001:09:50:00	8.5	102	627.74	3251	
SEAARA2001	17Aug2001:09:50:00	9.0	108	627.24	3222	
SEAARA2001	17Aug2001:09:50:00	9.5	114	626.74	3211	
SEAARA2001	17Aug2001:09:50:00	10.0	120	626.24	3037	3068
SEAARA2002	17Aug2001:14:50:00	0.0	0	624.35	40137	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARA2002	17Aug2001:14:50:00	0.5	6	623.85	58482	
SEAARA2002	17Aug2001:14:50:00	1.0	12	623.35	26254	
SEAARA2002	17Aug2001:14:50:00	1.5	18	622.85	10233	
SEAARA2002	17Aug2001:14:50:00	2.0	24	622.35	7749	
SEAARA2002	17Aug2001:14:50:00	2.5	30	621.85	6373	
SEAARA2002	17Aug2001:14:50:00	3.0	36	621.35	5157	
SEAARA2002	17Aug2001:14:50:00	3.5	42	620.85	4047	
SEAARA2002	17Aug2001:14:50:00	4.0	48	620.35	3772	
SEAARA2002	17Aug2001:14:50:00	4.5	54	619.85	4378	
SEAARA2002	17Aug2001:14:50:00	5.0	60	619.35	6213	6299
SEAARA2002	17Aug2001:14:50:00	5.5	66	618.85	4765	
SEAARA2002	17Aug2001:14:50:00	6.0	72	618.35	3468	
SEAARA2002	17Aug2001:14:50:00	6.5	78	617.85	3184	
SEAARA2002	17Aug2001:14:50:00	7.0	84	617.35	3087	
SEAARA2002	17Aug2001:14:50:00	7.5	90	616.85	3647	
SEAARA2002	17Aug2001:14:50:00	8.0	96	616.35	4758	
SEAARA2002	17Aug2001:14:50:00	8.5	102	615.85	5441	
SEAARA2002	17Aug2001:14:50:00	9.0	108	615.35	7252	
SEAARA2002	17Aug2001:14:50:00	9.5	114	614.85	7158	
SEAARA2002	17Aug2001:14:50:00	10.0	120	614.35	6376	6335
SEAARA2002	17Aug2001:14:50:00	10.5	126	613.85	5400	
SEAARA2002	17Aug2001:14:50:00	11.0	132	613.35	6557	
SEAARA2002	17Aug2001:14:50:00	11.5	138	612.85	7716	
SEAARA2002	17Aug2001:14:50:00	12.0	144	612.35	8745	
SEAARA2002	17Aug2001:14:50:00	12.5	150	611.85	9336	
SEAARA2002	17Aug2001:14:50:00	13.0	156	611.35	12431	
SEAARA2002	17Aug2001:14:50:00	13.5	162	610.85	16792	
SEAARA2002	17Aug2001:14:50:00	14.0	168	610.35	18426	
SEAARA2002	17Aug2001:14:50:00	14.5	174	609.85	13143	
SEAARA2002	17Aug2001:14:50:00	15.0	180	609.35	10786	10698
SEAARA2002	17Aug2001:14:50:00	15.5	186	608.85	10480	
SEAARA2002	17Aug2001:14:50:00	16.0	192	608.35	11315	
SEAARA2002	17Aug2001:14:50:00	16.5	198	607.85	11819	
SEAARA2002	17Aug2001:14:50:00	17.0	204	607.35	10660	
SEAARA2002	17Aug2001:14:50:00	17.5	210	606.85	9286	
SEAARA2002	17Aug2001:14:50:00	18.0	216	606.35	8284	
SEAARA2002	17Aug2001:14:50:00	18.5	222	605.85	8828	8641
SEAARB1001	06Sep2001:10:44:00	0.0	0	681.91	5131	
SEAARB1001	06Sep2001:10:44:00	0.5	6	681.41	6825	
SEAARB1001	06Sep2001:10:44:00	1.0	12	680.91	8430	
SEAARB1001	06Sep2001:10:44:00	1.5	18	680.41		
SEAARB1001	06Sep2001:10:44:00	2.0	24	679.91		
SEAARB1001	06Sep2001:10:44:00	2.5	30	679.41		
SEAARB1001	06Sep2001:10:44:00	3.0	36	678.91	3110	
SEAARB1001	06Sep2001:10:44:00	3.5	42	678.41		
SEAARB1001	06Sep2001:10:44:00	4.0	48	677.91		
SEAARB1001	06Sep2001:10:44:00	4.5	54	677.41		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB1001	06Sep2001:10:44:00	5.0	60	676.91	4988	
SEAARB1001	06Sep2001:10:44:00	5.5	66	676.41		
SEAARB1001	06Sep2001:10:44:00	6.0	72	675.91		
SEAARB1001	06Sep2001:10:44:00	6.5	78	675.41		
SEAARB1001	06Sep2001:10:44:00	7.0	84	674.91	6586	
SEAARB1001	06Sep2001:10:44:00	7.5	90	674.41		
SEAARB1001	06Sep2001:10:44:00	8.0	96	673.91		
SEAARB1001	06Sep2001:10:44:00	8.5	102	673.41		
SEAARB1001	06Sep2001:10:44:00	9.0	108	672.91	4234	
SEAARB1001	06Sep2001:10:44:00	9.5	114	672.41		
SEAARB1001	06Sep2001:10:44:00	10.0	120	671.91		
SEAARB1001	06Sep2001:10:44:00	10.5	126	671.41		
SEAARB1001	06Sep2001:10:44:00	11.0	132	670.91	6159	
SEAARB1001	06Sep2001:10:44:00	11.5	138	670.41		
SEAARB1001	06Sep2001:10:44:00	12.0	144	669.91		
SEAARB1001	06Sep2001:10:44:00	12.5	150	669.41		
SEAARB1001	06Sep2001:10:44:00	13.0	156	668.91	8515	
SEAARB1001	06Sep2001:10:44:00	13.5	162	668.41		
SEAARB1001	06Sep2001:10:44:00	14.0	168	667.91		
SEAARB1001	06Sep2001:10:44:00	14.5	174	667.41		
SEAARB1001	06Sep2001:10:44:00	15.0	180	666.91	6987	7026
SEAARB1001	06Sep2001:10:44:00	15.5	186	666.41		
SEAARB1001	06Sep2001:10:44:00	16.0	192	665.91		
SEAARB1001	06Sep2001:10:44:00	16.5	198	665.41		
SEAARB1001	06Sep2001:10:44:00	17.0	204	664.91	2169	
SEAARB1001	06Sep2001:10:44:00	17.5	210	664.41		
SEAARB1001	06Sep2001:10:44:00	18.0	216	663.91		
SEAARB1001	06Sep2001:10:44:00	18.5	222	663.41		
SEAARB1001	06Sep2001:10:44:00	19.0	228	662.91	3786	
SEAARB1001	06Sep2001:10:44:00	19.5	234	662.41		
SEAARB1001	06Sep2001:10:44:00	20.0	240	661.91		
SEAARB1001	06Sep2001:10:44:00	20.5	246	661.41		
SEAARB1001	06Sep2001:10:44:00	21.0	252	660.91	6915	
SEAARB1001	06Sep2001:10:44:00	21.5	258	660.41		
SEAARB1001	06Sep2001:10:44:00	22.0	264	659.91		
SEAARB1001	06Sep2001:10:44:00	22.5	270	659.41		
SEAARB1001	06Sep2001:10:44:00	23.0	276	658.91	1999	
SEAARB1001	06Sep2001:10:44:00	23.5	282	658.41		
SEAARB1001	06Sep2001:10:44:00	24.0	288	657.91		
SEAARB1001	06Sep2001:10:44:00	24.5	294	657.41		
SEAARB1001	06Sep2001:10:44:00	25.0	300	656.91	7577	
SEAARB1001	06Sep2001:10:44:00	25.5	306	656.41		
SEAARB1001	06Sep2001:10:44:00	26.0	312	655.91		
SEAARB1001	06Sep2001:10:44:00	26.5	318	655.41		
SEAARB1001	06Sep2001:10:44:00	27.0	324	654.91	7309	
SEAARB1001	06Sep2001:10:44:00	27.5	330	654.41		
SEAARB1001	06Sep2001:10:44:00	28.0	336	653.91		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB1001	06Sep2001:10:44:00	28.5	342	653.41		
SEAARB1001	06Sep2001:10:44:00	29.0	348	652.91	8102	
SEAARB1001	06Sep2001:10:44:00	29.5	354	652.41		
SEAARB1001	06Sep2001:10:44:00	30.0	360	651.91		
SEAARB1001	06Sep2001:10:44:00	30.5	366	651.41		
SEAARB1001	06Sep2001:10:44:00	31.0	372	650.91	8883	
SEAARB1001	06Sep2001:10:44:00	31.5	378	650.41		
SEAARB1001	06Sep2001:10:44:00	32.0	384	649.91		
SEAARB1001	06Sep2001:10:44:00	32.5	390	649.41		
SEAARB1001	06Sep2001:10:44:00	33.0	396	648.91	1780	
SEAARB1001	06Sep2001:10:44:00	33.5	402	648.41		
SEAARB1001	06Sep2001:10:44:00	34.0	408	647.91		
SEAARB1001	06Sep2001:10:44:00	34.5	414	647.41		
SEAARB1001	06Sep2001:10:44:00	35.0	420	646.91	5130	5183
SEAARB1001	06Sep2001:10:44:00	35.5	426	646.41		
SEAARB1001	06Sep2001:10:44:00	36.0	432	645.91		
SEAARB1001	06Sep2001:10:44:00	36.5	438	645.41		
SEAARB1001	06Sep2001:10:44:00	37.0	444	644.91	2700	
SEAARB1001	06Sep2001:10:44:00	37.5	450	644.41		
SEAARB1001	06Sep2001:10:44:00	38.0	456	643.91		
SEAARB1001	06Sep2001:10:44:00	38.5	462	643.41		
SEAARB1001	06Sep2001:10:44:00	39.0	468	642.91	1478	
SEAARB1001	06Sep2001:10:44:00	39.5	474	642.41		
SEAARB1001	06Sep2001:10:44:00	40.0	480	641.91		
SEAARB1001	06Sep2001:10:44:00	40.5	486	641.41		
SEAARB1001	06Sep2001:10:44:00	41.0	492	640.91	1929	
SEAARB1001	06Sep2001:10:44:00	41.5	498	640.41		
SEAARB1001	06Sep2001:10:44:00	42.0	504	639.91		
SEAARB1001	06Sep2001:10:44:00	42.5	510	639.41		
SEAARB1001	06Sep2001:10:44:00	43.0	516	638.91	3855	
SEAARB1001	06Sep2001:10:44:00	43.5	522	638.41		
SEAARB1001	06Sep2001:10:44:00	44.0	528	637.91		
SEAARB1001	06Sep2001:10:44:00	44.5	534	637.41	8825	
SEAARB1001	06Sep2001:10:44:00	45.0	540	636.91	9082	
SEAARB1001	06Sep2001:10:44:00	45.5	546	636.41	11743	
SEAARB1001	06Sep2001:10:44:00	46.0	552	635.91	10162	
SEAARB1001	06Sep2001:10:44:00	46.5	558	635.41	6348	
SEAARB1001	06Sep2001:10:44:00	47.0	564	634.91		
SEAARB1001	06Sep2001:10:44:00	47.5	570	634.41		
SEAARB1001	06Sep2001:10:44:00	48.0	576	633.91		
SEAARB1001	06Sep2001:10:44:00	48.5	582	633.41		
SEAARB1001	06Sep2001:10:44:00	49.0	588	632.91	4703	4732
SEAARB1001	06Sep2001:10:44:00	49.5	594	632.41		
SEAARB1001	06Sep2001:10:44:00	50.0	600	631.91		
SEAARB1001	06Sep2001:10:44:00	50.5	606	631.41		
SEAARB1001	06Sep2001:10:44:00	51.0	612	630.91	6058	
SEAARB1001	06Sep2001:10:44:00	51.5	618	630.41		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB1001	06Sep2001:10:44:00	52.0	624	629.91		
SEAARB1001	06Sep2001:10:44:00	52.5	630	629.41		
SEAARB1001	06Sep2001:10:44:00	53.0	636	628.91	4593	
SEAARB1001	06Sep2001:10:44:00	53.5	642	628.41		
SEAARB1001	06Sep2001:10:44:00	54.0	648	627.91		
SEAARB1001	06Sep2001:10:44:00	54.5	654	627.41		
SEAARB1001	06Sep2001:10:44:00	55.0	660	626.91	7759	7628
SEAARB1001	06Sep2001:10:44:00	55.5	666	626.41		
SEAARB1001	06Sep2001:10:44:00	56.0	672	625.91		
SEAARB1001	06Sep2001:10:44:00	56.5	678	625.41		
SEAARB1001	06Sep2001:10:44:00	57.0	684	624.91	4179	
SEAARB1001	06Sep2001:10:44:00	57.5	690	624.41		
SEAARB1001	06Sep2001:10:44:00	58.0	696	623.91		
SEAARB1001	06Sep2001:10:44:00	58.5	702	623.41		
SEAARB1001	06Sep2001:10:44:00	59.0	708	622.91	4285	
SEAARB2001	04Sep2001:13:55:00	0.0	0	657.46	4824	
SEAARB2001	04Sep2001:13:55:00	0.5	6	656.96	5966	
SEAARB2001	04Sep2001:13:55:00	1.0	12	656.46	5885	
SEAARB2001	04Sep2001:13:55:00	1.5	18	655.96		
SEAARB2001	04Sep2001:13:55:00	2.0	24	655.46		
SEAARB2001	04Sep2001:13:55:00	2.5	30	654.96		
SEAARB2001	04Sep2001:13:55:00	3.0	36	654.46	2300	
SEAARB2001	04Sep2001:13:55:00	3.5	42	653.96		
SEAARB2001	04Sep2001:13:55:00	4.0	48	653.46		
SEAARB2001	04Sep2001:13:55:00	4.5	54	652.96		
SEAARB2001	04Sep2001:13:55:00	5.0	60	652.46	5433	
SEAARB2001	04Sep2001:13:55:00	5.5	66	651.96		
SEAARB2001	04Sep2001:13:55:00	6.0	72	651.46		
SEAARB2001	04Sep2001:13:55:00	6.5	78	650.96		
SEAARB2001	04Sep2001:13:55:00	7.0	84	650.46	2227	
SEAARB2001	04Sep2001:13:55:00	7.5	90	649.96		
SEAARB2001	04Sep2001:13:55:00	8.0	96	649.46		
SEAARB2001	04Sep2001:13:55:00	8.5	102	648.96		
SEAARB2001	04Sep2001:13:55:00	9.0	108	648.46	4952	
SEAARB2001	04Sep2001:13:55:00	9.5	114	647.96		
SEAARB2001	04Sep2001:13:55:00	10.0	120	647.46		
SEAARB2001	04Sep2001:13:55:00	10.5	126	646.96		
SEAARB2001	04Sep2001:13:55:00	11.0	132	646.46	4622	
SEAARB2001	04Sep2001:13:55:00	11.5	138	645.96		
SEAARB2001	04Sep2001:13:55:00	12.0	144	645.46		
SEAARB2001	04Sep2001:13:55:00	12.5	150	644.96		
SEAARB2001	04Sep2001:13:55:00	13.0	156	644.46	6021	
SEAARB2001	04Sep2001:13:55:00	13.5	162	643.96		
SEAARB2001	04Sep2001:13:55:00	14.0	168	643.46	10278	
SEAARB2001	04Sep2001:13:55:00	14.5	174	642.96	11732	
SEAARB2001	04Sep2001:13:55:00	15.0	180	642.46	11293	11264
SEAARB2001	04Sep2001:13:55:00	15.5	186	641.96	11130	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2001	04Sep2001:13:55:00	16.0	192	641.46	11223	
SEAARB2001	04Sep2001:13:55:00	16.5	198	640.96	11051	
SEAARB2001	04Sep2001:13:55:00	17.0	204	640.46	11022	
SEAARB2001	04Sep2001:13:55:00	17.5	210	639.96	13777	
SEAARB2001	04Sep2001:13:55:00	18.0	216	639.46	12904	
SEAARB2001	04Sep2001:13:55:00	18.5	222	638.96	10598	
SEAARB2001	04Sep2001:13:55:00	19.0	228	638.46	9970	
SEAARB2001	04Sep2001:13:55:00	19.5	234	637.96	9722	
SEAARB2001	04Sep2001:13:55:00	20.0	240	637.46	13839	13932
SEAARB2001	04Sep2001:13:55:00	20.5	246	636.96	28045	
SEAARB2001	04Sep2001:13:55:00	21.0	252	636.46	43058	
SEAARB2001	04Sep2001:13:55:00	21.5	258	635.96	42331	
SEAARB2001	04Sep2001:13:55:00	22.0	264	635.46	22195	
SEAARB2001	04Sep2001:13:55:00	22.5	270	634.96	18018	
SEAARB2001	04Sep2001:13:55:00	23.0	276	634.46	20924	
SEAARB2001	04Sep2001:13:55:00	23.5	282	633.96	14999	
SEAARB2001	04Sep2001:13:55:00	24.0	288	633.46	10668	
SEAARB2001	04Sep2001:13:55:00	24.5	294	632.96	9713	
SEAARB2001	04Sep2001:13:55:00	25.0	300	632.46	11915	12000
SEAARB2001	04Sep2001:13:55:00	25.5	306	631.96	27019	
SEAARB2001	04Sep2001:13:55:00	26.0	312	631.46	14028	
SEAARB2001	04Sep2001:13:55:00	26.5	318	630.96	6127	
SEAARB2001	04Sep2001:13:55:00	27.0	324	630.46	4280	
SEAARB2001	04Sep2001:13:55:00	27.5	330	629.96	5176	
SEAARB2001	04Sep2001:13:55:00	28.0	336	629.46	5637	
SEAARB2001	04Sep2001:13:55:00	28.5	342	628.96	4844	
SEAARB2001	04Sep2001:13:55:00	29.0	348	628.46	4918	
SEAARB2001	04Sep2001:13:55:00	29.5	354	627.96	6148	
SEAARB2001	04Sep2001:13:55:00	30.0	360	627.46	5969	6116
SEAARB2001	04Sep2001:13:55:00	30.5	366	626.96	4373	
SEAARB2001	04Sep2001:13:55:00	31.0	372	626.46	4208	
SEAARB2001	04Sep2001:13:55:00	31.5	378	625.96	3632	
SEAARB2001	04Sep2001:13:55:00	32.0	384	625.46	3828	
SEAARB2001	04Sep2001:13:55:00	32.5	390	624.96	5425	
SEAARB2001	04Sep2001:13:55:00	33.0	396	624.46	5659	
SEAARB2001	04Sep2001:13:55:00	33.5	402	623.96	4267	
SEAARB2001	04Sep2001:13:55:00	34.0	408	623.46	4331	
SEAARB2001	04Sep2001:13:55:00	34.5	414	622.96	5207	
SEAARB2001	04Sep2001:13:55:00	35.0	420	622.46	6127	6141
SEAARB2001	04Sep2001:13:55:00	35.5	426	621.96	6122	
SEAARB2001	04Sep2001:13:55:00	36.0	432	621.46	5812	
SEAARB2001	04Sep2001:13:55:00	36.5	438	620.96	4765	
SEAARB2001	04Sep2001:13:55:00	37.0	444	620.46	5007	
SEAARB2001	04Sep2001:13:55:00	37.5	450	619.96	6623	
SEAARB2001	04Sep2001:13:55:00	38.0	456	619.46	7986	
SEAARB2001	04Sep2001:13:55:00	38.5	462	618.96	10000	10052
SEAARB2002	04Sep2001:16:20:00	0.0	0	645.27	4920	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2002	04Sep2001:16:20:00	0.5	6	644.77	6362	
SEAARB2002	04Sep2001:16:20:00	1.0	12	644.27	7953	
SEAARB2002	04Sep2001:16:20:00	1.5	18	643.77	7627	
SEAARB2002	04Sep2001:16:20:00	2.0	24	643.27	7237	
SEAARB2002	04Sep2001:16:20:00	2.5	30	642.77	6493	
SEAARB2002	04Sep2001:16:20:00	3.0	36	642.27	4954	
SEAARB2002	04Sep2001:16:20:00	3.5	42	641.77	3719	
SEAARB2002	04Sep2001:16:20:00	4.0	48	641.27	3996	
SEAARB2002	04Sep2001:16:20:00	4.5	54	640.77	5513	
SEAARB2002	04Sep2001:16:20:00	5.0	60	640.27	6130	6227
SEAARB2002	04Sep2001:16:20:00	5.5	66	639.77	5959	
SEAARB2002	04Sep2001:16:20:00	6.0	72	639.27	7130	
SEAARB2002	04Sep2001:16:20:00	6.5	78	638.77	8621	
SEAARB2002	04Sep2001:16:20:00	7.0	84	638.27	9917	
SEAARB2002	04Sep2001:16:20:00	7.5	90	637.77	10160	
SEAARB2002	04Sep2001:16:20:00	8.0	96	637.27	9379	
SEAARB2002	04Sep2001:16:20:00	8.5	102	636.77	7887	
SEAARB2002	04Sep2001:16:20:00	9.0	108	636.27	5687	
SEAARB2002	04Sep2001:16:20:00	9.5	114	635.77	4180	
SEAARB2002	04Sep2001:16:20:00	10.0	120	635.27	3482	3518
SEAARB2002	04Sep2001:16:20:00	10.5	126	634.77	3480	
SEAARB2002	04Sep2001:16:20:00	11.0	132	634.27	3650	
SEAARB2002	04Sep2001:16:20:00	11.5	138	633.77	3477	
SEAARB2002	04Sep2001:16:20:00	12.0	144	633.27	4782	
SEAARB2002	04Sep2001:16:20:00	12.5	150	632.77	5396	
SEAARB2002	04Sep2001:16:20:00	13.0	156	632.27	4143	
SEAARB2002	04Sep2001:16:20:00	13.5	162	631.77	3545	
SEAARB2002	04Sep2001:16:20:00	14.0	168	631.27	4372	
SEAARB2002	04Sep2001:16:20:00	14.5	174	630.77	5725	
SEAARB2002	04Sep2001:16:20:00	15.0	180	630.27	5555	5438
SEAARB2002	04Sep2001:16:20:00	15.5	186	629.77	5878	
SEAARB2002	04Sep2001:16:20:00	16.0	192	629.27	7573	
SEAARB2002	04Sep2001:16:20:00	16.5	198	628.77	8792	
SEAARB2002	04Sep2001:16:20:00	17.0	204	628.27	7450	
SEAARB2002	04Sep2001:16:20:00	17.5	210	627.77	4283	
SEAARB2002	04Sep2001:16:20:00	18.0	216	627.27	2672	
SEAARB2002	04Sep2001:16:20:00	18.5	222	626.77	1892	
SEAARB2002	04Sep2001:16:20:00	19.0	228	626.27	1511	
SEAARB2002	04Sep2001:16:20:00	19.5	234	625.77	1244	
SEAARB2002	04Sep2001:16:20:00	20.0	240	625.27	1253	1217
SEAARB2002	04Sep2001:16:20:00	20.5	246	624.77	1602	
SEAARB2002	04Sep2001:16:20:00	21.0	252	624.27	2074	
SEAARB2002	04Sep2001:16:20:00	21.5	258	623.77	3105	
SEAARB2002	04Sep2001:16:20:00	22.0	264	623.27	5500	
SEAARB2002	04Sep2001:16:20:00	22.5	270	622.77	9002	
SEAARB2002	04Sep2001:16:20:00	23.0	276	622.27	8968	
SEAARB2002	04Sep2001:16:20:00	23.5	282	621.77	7741	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2002	04Sep2001:16:20:00	24.0	288	621.27	5898	
SEAARB2002	04Sep2001:16:20:00	24.5	294	620.77	7036	
SEAARB2002	04Sep2001:16:20:00	25.0	300	620.27	9011	9009
SEAARB2002	04Sep2001:16:20:00	25.5	306	619.77	9954	
SEAARB2002	04Sep2001:16:20:00	26.0	312	619.27	9363	
SEAARB2002	04Sep2001:16:20:00	26.5	318	618.77	8675	
SEAARB2002	04Sep2001:16:20:00	27.0	324	618.27	8006	
SEAARB2002	04Sep2001:16:20:00	27.5	330	617.77	6012	
SEAARB2002	04Sep2001:16:20:00	28.0	336	617.27	3786	
SEAARB2002	04Sep2001:16:20:00	28.5	342	616.77	3079	
SEAARB2002	04Sep2001:16:20:00	29.0	348	616.27	3010	
SEAARB2002	04Sep2001:16:20:00	29.5	354	615.77	3059	
SEAARB2002	04Sep2001:16:20:00	30.0	360	615.27	3846	3715
SEAARB2002	04Sep2001:16:20:00	30.5	366	614.77	4575	
SEAARB2002	04Sep2001:16:20:00	31.0	372	614.27	4893	
SEAARB2002	04Sep2001:16:20:00	31.5	378	613.77	6481	
SEAARB2002	04Sep2001:16:20:00	32.0	384	613.27	8791	
SEAARB2002	04Sep2001:16:20:00	32.5	390	612.77	9714	
SEAARB2002	04Sep2001:16:20:00	33.0	396	612.27	9830	
SEAARB2002	04Sep2001:16:20:00	33.5	402	611.77	9414	
SEAARB2002	04Sep2001:16:20:00	34.0	408	611.27	9026	
SEAARB2002	04Sep2001:16:20:00	34.5	414	610.77	8644	
SEAARB2002	04Sep2001:16:20:00	35.0	420	610.27	6740	6737
SEAARB2003	04Sep2001:18:25:00	0.0	0	650.64	5084	
SEAARB2003	04Sep2001:18:25:00	0.5	6	650.14	6516	
SEAARB2003	04Sep2001:18:25:00	1.0	12	649.64	6835	
SEAARB2003	04Sep2001:18:25:00	1.5	18	649.14		
SEAARB2003	04Sep2001:18:25:00	2.0	24	648.64		
SEAARB2003	04Sep2001:18:25:00	2.5	30	648.14		
SEAARB2003	04Sep2001:18:25:00	3.0	36	647.64	3721	
SEAARB2003	04Sep2001:18:25:00	3.5	42	647.14		
SEAARB2003	04Sep2001:18:25:00	4.0	48	646.64		
SEAARB2003	04Sep2001:18:25:00	4.5	54	646.14		
SEAARB2003	04Sep2001:18:25:00	5.0	60	645.64	4109	
SEAARB2003	04Sep2001:18:25:00	5.5	66	645.14		
SEAARB2003	04Sep2001:18:25:00	6.0	72	644.64		
SEAARB2003	04Sep2001:18:25:00	6.5	78	644.14		
SEAARB2003	04Sep2001:18:25:00	7.0	84	643.64	3943	
SEAARB2003	04Sep2001:18:25:00	7.5	90	643.14		
SEAARB2003	04Sep2001:18:25:00	8.0	96	642.64		
SEAARB2003	04Sep2001:18:25:00	8.5	102	642.14		
SEAARB2003	04Sep2001:18:25:00	9.0	108	641.64	1300	
SEAARB2003	04Sep2001:18:25:00	9.5	114	641.14		
SEAARB2003	04Sep2001:18:25:00	10.0	120	640.64		
SEAARB2003	04Sep2001:18:25:00	10.5	126	640.14		
SEAARB2003	04Sep2001:18:25:00	11.0	132	639.64	3326	
SEAARB2003	04Sep2001:18:25:00	11.5	138	639.14		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2003	04Sep2001:18:25:00	12.0	144	638.64		
SEAARB2003	04Sep2001:18:25:00	12.5	150	638.14		
SEAARB2003	04Sep2001:18:25:00	13.0	156	637.64	9449	
SEAARB2003	04Sep2001:18:25:00	13.5	162	637.14	13110	
SEAARB2003	04Sep2001:18:25:00	14.0	168	636.64	22627	
SEAARB2003	04Sep2001:18:25:00	14.5	174	636.14	18983	
SEAARB2003	04Sep2001:18:25:00	15.0	180	635.64	7948	8077
SEAARB2003	04Sep2001:18:25:00	15.5	186	635.14		
SEAARB2003	04Sep2001:18:25:00	16.0	192	634.64		
SEAARB2003	04Sep2001:18:25:00	16.5	198	634.14		
SEAARB2003	04Sep2001:18:25:00	17.0	204	633.64	3753	
SEAARB2003	04Sep2001:18:25:00	17.5	210	633.14		
SEAARB2003	04Sep2001:18:25:00	18.0	216	632.64		
SEAARB2003	04Sep2001:18:25:00	18.5	222	632.14		7782
SEAARB2003	04Sep2001:18:25:00	19.0	228	631.64	6049	
SEAARB2003	04Sep2001:18:25:00	19.5	234	631.14		
SEAARB2003	04Sep2001:18:25:00	20.0	240	630.64		
SEAARB2003	04Sep2001:18:25:00	20.5	246	630.14		
SEAARB2003	04Sep2001:18:25:00	21.0	252	629.64	5512	13967
SEAARB2003	04Sep2001:18:25:00	21.5	258	629.14		
SEAARB2003	04Sep2001:18:25:00	22.0	264	628.64		
SEAARB2003	04Sep2001:18:25:00	22.5	270	628.14		
SEAARB2003	04Sep2001:18:25:00	23.0	276	627.64	7497	
SEAARB2003	04Sep2001:18:25:00	23.5	282	627.14		
SEAARB2003	04Sep2001:18:25:00	24.0	288	626.64		
SEAARB2003	04Sep2001:18:25:00	24.5	294	626.14		
SEAARB2003	04Sep2001:18:25:00	25.0	300	625.64	3997	4121
SEAARB2003	04Sep2001:18:25:00	25.5	306	625.14	4936	
SEAARB2003	04Sep2001:18:25:00	26.0	312	624.64	4784	
SEAARB2003	04Sep2001:18:25:00	26.5	318	624.14	3772	
SEAARB2003	04Sep2001:18:25:00	27.0	324	623.64	2762	
SEAARB2003	04Sep2001:18:25:00	27.5	330	623.14	3148	
SEAARB2003	04Sep2001:18:25:00	28.0	336	622.64	3059	
SEAARB2003	04Sep2001:18:25:00	28.5	342	622.14	1912	
SEAARB2003	04Sep2001:18:25:00	29.0	348	621.64	2356	
SEAARB2003	04Sep2001:18:25:00	29.5	354	621.14	4195	
SEAARB2003	04Sep2001:18:25:00	30.0	360	620.64	6025	6033
SEAARB2003	04Sep2001:18:25:00	30.5	366	620.14	5470	
SEAARB2003	04Sep2001:18:25:00	31.0	372	619.64	4891	
SEAARB2003	04Sep2001:18:25:00	31.5	378	619.14	7602	
SEAARB2003	04Sep2001:18:25:00	32.0	384	618.64	7992	
SEAARB2003	04Sep2001:18:25:00	32.5	390	618.14	7377	
SEAARB2003	04Sep2001:18:25:00	33.0	396	617.64	5288	
SEAARB2003	04Sep2001:18:25:00	33.5	402	617.14	4182	
SEAARB2003	04Sep2001:18:25:00	34.0	408	616.64	3905	
SEAARB2003	04Sep2001:18:25:00	34.5	414	616.14	3842	
SEAARB2003	04Sep2001:18:25:00	35.0	420	615.64	4610	4552

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2003	04Sep2001:18:25:00	35.5	426	615.14	7203	
SEAARB2003	04Sep2001:18:25:00	36.0	432	614.64	10446	
SEAARB2003	04Sep2001:18:25:00	36.5	438	614.14	11531	
SEAARB2003	04Sep2001:18:25:00	37.0	444	613.64	9625	
SEAARB2003	04Sep2001:18:25:00	37.5	450	613.14	8118	
SEAARB2003	04Sep2001:18:25:00	38.0	456	612.64	8328	
SEAARB2003	04Sep2001:18:25:00	38.5	462	612.14	9476	
SEAARB2003	04Sep2001:18:25:00	39.0	468	611.64	9948	
SEAARB2003	04Sep2001:18:25:00	39.5	474	611.14	10806	
SEAARB2003	04Sep2001:18:25:00	40.0	480	610.64	9958	9968
SEAARB2004	05Sep2001:08:50:00	0.0	0	655.61	5028	
SEAARB2004	05Sep2001:08:50:00	0.5	6	655.11	6301	
SEAARB2004	05Sep2001:08:50:00	1.0	12	654.61	5926	
SEAARB2004	05Sep2001:08:50:00	1.5	18	654.11		
SEAARB2004	05Sep2001:08:50:00	2.0	24	653.61		
SEAARB2004	05Sep2001:08:50:00	2.5	30	653.11		
SEAARB2004	05Sep2001:08:50:00	3.0	36	652.61	7366	
SEAARB2004	05Sep2001:08:50:00	3.5	42	652.11		
SEAARB2004	05Sep2001:08:50:00	4.0	48	651.61		
SEAARB2004	05Sep2001:08:50:00	4.5	54	651.11		
SEAARB2004	05Sep2001:08:50:00	5.0	60	650.61	3065	
SEAARB2004	05Sep2001:08:50:00	5.5	66	650.11		
SEAARB2004	05Sep2001:08:50:00	6.0	72	649.61		
SEAARB2004	05Sep2001:08:50:00	6.5	78	649.11		
SEAARB2004	05Sep2001:08:50:00	7.0	84	648.61	2078	
SEAARB2004	05Sep2001:08:50:00	7.5	90	648.11		
SEAARB2004	05Sep2001:08:50:00	8.0	96	647.61		
SEAARB2004	05Sep2001:08:50:00	8.5	102	647.11		
SEAARB2004	05Sep2001:08:50:00	9.0	108	646.61	5116	
SEAARB2004	05Sep2001:08:50:00	9.5	114	646.11		
SEAARB2004	05Sep2001:08:50:00	10.0	120	645.61		
SEAARB2004	05Sep2001:08:50:00	10.5	126	645.11		
SEAARB2004	05Sep2001:08:50:00	11.0	132	644.61	2354	
SEAARB2004	05Sep2001:08:50:00	11.5	138	644.11		
SEAARB2004	05Sep2001:08:50:00	12.0	144	643.61		
SEAARB2004	05Sep2001:08:50:00	12.5	150	643.11		
SEAARB2004	05Sep2001:08:50:00	13.0	156	642.61	2333	
SEAARB2004	05Sep2001:08:50:00	13.5	162	642.11		
SEAARB2004	05Sep2001:08:50:00	14.0	168	641.61		
SEAARB2004	05Sep2001:08:50:00	14.5	174	641.11		
SEAARB2004	05Sep2001:08:50:00	15.0	180	640.61	4732	4698
SEAARB2004	05Sep2001:08:50:00	15.5	186	640.11		
SEAARB2004	05Sep2001:08:50:00	16.0	192	639.61		
SEAARB2004	05Sep2001:08:50:00	16.5	198	639.11		
SEAARB2004	05Sep2001:08:50:00	17.0	204	638.61	2622	
SEAARB2004	05Sep2001:08:50:00	17.5	210	638.11		
SEAARB2004	05Sep2001:08:50:00	18.0	216	637.61	6049	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2004	05Sep2001:08:50:00	18.5	222	637.11	8611	
SEAARB2004	05Sep2001:08:50:00	19.0	228	636.61	11854	
SEAARB2004	05Sep2001:08:50:00	19.5	234	636.11	21165	
SEAARB2004	05Sep2001:08:50:00	20.0	240	635.61	33866	
SEAARB2004	05Sep2001:08:50:00	20.5	246	635.11	14134	
SEAARB2004	05Sep2001:08:50:00	21.0	252	634.61	8555	8355
SEAARB2004	05Sep2001:08:50:00	21.5	258	634.11	10099	
SEAARB2004	05Sep2001:08:50:00	22.0	264	633.61	8997	
SEAARB2004	05Sep2001:08:50:00	22.5	270	633.11	6526	
SEAARB2004	05Sep2001:08:50:00	23.0	276	632.61	6339	
SEAARB2004	05Sep2001:08:50:00	23.5	282	632.11	5591	
SEAARB2004	05Sep2001:08:50:00	24.0	288	631.61	4232	
SEAARB2004	05Sep2001:08:50:00	24.5	294	631.11	4985	
SEAARB2004	05Sep2001:08:50:00	25.0	300	630.61	7185	7035
SEAARB2004	05Sep2001:08:50:00	25.5	306	630.11	7626	
SEAARB2004	05Sep2001:08:50:00	26.0	312	629.61	8374	
SEAARB2004	05Sep2001:08:50:00	26.5	318	629.11	7163	
SEAARB2004	05Sep2001:08:50:00	27.0	324	628.61	4134	
SEAARB2004	05Sep2001:08:50:00	27.5	330	628.11	2973	
SEAARB2004	05Sep2001:08:50:00	28.0	336	627.61	3925	
SEAARB2004	05Sep2001:08:50:00	28.5	342	627.11	5633	
SEAARB2004	05Sep2001:08:50:00	29.0	348	626.61	6458	
SEAARB2004	05Sep2001:08:50:00	29.5	354	626.11	5317	
SEAARB2004	05Sep2001:08:50:00	30.0	360	625.61	4636	4625
SEAARB2004	05Sep2001:08:50:00	30.5	366	625.11	4747	
SEAARB2004	05Sep2001:08:50:00	31.0	372	624.61	4040	
SEAARB2004	05Sep2001:08:50:00	31.5	378	624.11	2238	
SEAARB2004	05Sep2001:08:50:00	32.0	384	623.61	2029	
SEAARB2004	05Sep2001:08:50:00	32.5	390	623.11	2484	
SEAARB2004	05Sep2001:08:50:00	33.0	396	622.61	2590	
SEAARB2004	05Sep2001:08:50:00	33.5	402	622.11	3197	
SEAARB2004	05Sep2001:08:50:00	34.0	408	621.61	4332	
SEAARB2004	05Sep2001:08:50:00	34.5	414	621.11	4038	
SEAARB2004	05Sep2001:08:50:00	35.0	420	620.61	3964	3929
SEAARB2004	05Sep2001:08:50:00	35.5	426	620.11	3770	
SEAARB2004	05Sep2001:08:50:00	36.0	432	619.61	3409	
SEAARB2004	05Sep2001:08:50:00	36.5	438	619.11	3034	
SEAARB2004	05Sep2001:08:50:00	37.0	444	618.61	5477	
SEAARB2004	05Sep2001:08:50:00	37.5	450	618.11	7069	
SEAARB2004	05Sep2001:08:50:00	38.0	456	617.61	8037	
SEAARB2004	05Sep2001:08:50:00	38.5	462	617.11	5881	
SEAARB2004	05Sep2001:08:50:00	39.0	468	616.61	3773	
SEAARB2004	05Sep2001:08:50:00	39.5	474	616.11	3151	3077
SEAARB2005	05Sep2001:11:00:00	0.0	0	644.13	7235	
SEAARB2005	05Sep2001:11:00:00	0.5	6	643.63	8684	
SEAARB2005	05Sep2001:11:00:00	1.0	12	643.13	9273	
SEAARB2005	05Sep2001:11:00:00	1.5	18	642.63	8248	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2005	05Sep2001:11:00:00	2.0	24	642.13	6376	
SEAARB2005	05Sep2001:11:00:00	2.5	30	641.63	5276	
SEAARB2005	05Sep2001:11:00:00	3.0	36	641.13	5563	
SEAARB2005	05Sep2001:11:00:00	3.5	42	640.63	4478	
SEAARB2005	05Sep2001:11:00:00	4.0	48	640.13	3056	
SEAARB2005	05Sep2001:11:00:00	4.5	54	639.63	3083	
SEAARB2005	05Sep2001:11:00:00	5.0	60	639.13	3134	
SEAARB2005	05Sep2001:11:00:00	5.5	66	638.63	3471	
SEAARB2005	05Sep2001:11:00:00	6.0	72	638.13	2731	
SEAARB2005	05Sep2001:11:00:00	6.5	78	637.63	3461	
SEAARB2005	05Sep2001:11:00:00	7.0	84	637.13	4789	
SEAARB2005	05Sep2001:11:00:00	7.5	90	636.63	6491	
SEAARB2005	05Sep2001:11:00:00	8.0	96	636.13	6804	
SEAARB2005	05Sep2001:11:00:00	8.5	102	635.63	7470	
SEAARB2005	05Sep2001:11:00:00	9.0	108	635.13	7987	
SEAARB2005	05Sep2001:11:00:00	9.5	114	634.63	8201	
SEAARB2005	05Sep2001:11:00:00	10.0	120	634.13	9134	9175
SEAARB2005	05Sep2001:11:00:00	10.5	126	633.63	8785	
SEAARB2005	05Sep2001:11:00:00	11.0	132	633.13	7279	
SEAARB2005	05Sep2001:11:00:00	11.5	138	632.63	5260	
SEAARB2005	05Sep2001:11:00:00	12.0	144	632.13	5279	
SEAARB2005	05Sep2001:11:00:00	12.5	150	631.63	6735	
SEAARB2005	05Sep2001:11:00:00	13.0	156	631.13	6678	
SEAARB2005	05Sep2001:11:00:00	13.5	162	630.63	6293	
SEAARB2005	05Sep2001:11:00:00	14.0	168	630.13	7704	
SEAARB2005	05Sep2001:11:00:00	14.5	174	629.63	9457	
SEAARB2005	05Sep2001:11:00:00	15.0	180	629.13	9062	9160
SEAARB2005	05Sep2001:11:00:00	15.5	186	628.63	8056	
SEAARB2005	05Sep2001:11:00:00	16.0	192	628.13	8167	
SEAARB2005	05Sep2001:11:00:00	16.5	198	627.63	7767	
SEAARB2005	05Sep2001:11:00:00	17.0	204	627.13	6689	
SEAARB2005	05Sep2001:11:00:00	17.5	210	626.63	3785	
SEAARB2005	05Sep2001:11:00:00	18.0	216	626.13	2092	
SEAARB2005	05Sep2001:11:00:00	18.5	222	625.63	1976	
SEAARB2005	05Sep2001:11:00:00	19.0	228	625.13	2258	
SEAARB2005	05Sep2001:11:00:00	19.5	234	624.63	3134	
SEAARB2005	05Sep2001:11:00:00	20.0	240	624.13	4996	5089
SEAARB2005	05Sep2001:11:00:00	20.5	246	623.63	5123	
SEAARB2005	05Sep2001:11:00:00	21.0	252	623.13	4699	
SEAARB2005	05Sep2001:11:00:00	21.5	258	622.63	3425	
SEAARB2005	05Sep2001:11:00:00	22.0	264	622.13	3180	
SEAARB2005	05Sep2001:11:00:00	22.5	270	621.63	3249	
SEAARB2005	05Sep2001:11:00:00	23.0	276	621.13	3170	
SEAARB2005	05Sep2001:11:00:00	23.5	282	620.63	3640	
SEAARB2005	05Sep2001:11:00:00	24.0	288	620.13	3504	
SEAARB2005	05Sep2001:11:00:00	24.5	294	619.63	4819	
SEAARB2005	05Sep2001:11:00:00	25.0	300	619.13	6127	6184

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2005	05Sep2001:11:00:00	25.5	306	618.63	5134	
SEAARB2005	05Sep2001:11:00:00	26.0	312	618.13	3892	
SEAARB2005	05Sep2001:11:00:00	26.5	318	617.63	4045	
SEAARB2005	05Sep2001:11:00:00	27.0	324	617.13	3912	
SEAARB2005	05Sep2001:11:00:00	27.5	330	616.63	3466	
SEAARB2005	05Sep2001:11:00:00	28.0	336	616.13	3213	
SEAARB2005	05Sep2001:11:00:00	28.5	342	615.63	2967	
SEAARB2005	05Sep2001:11:00:00	29.0	348	615.13	2722	
SEAARB2005	05Sep2001:11:00:00	29.5	354	614.63	2781	
SEAARB2005	05Sep2001:11:00:00	30.0	360	614.13	3001	2773
SEAARB2005	05Sep2001:11:00:00	30.5	366	613.63	2261	
SEAARB2006	05Sep2001:17:30:00	0.0	0	640.39	5017	
SEAARB2006	05Sep2001:17:30:00	0.5	6	639.89	6458	
SEAARB2006	05Sep2001:17:30:00	1.0	12	639.39	7533	
SEAARB2006	05Sep2001:17:30:00	1.5	18	638.89	8285	
SEAARB2006	05Sep2001:17:30:00	2.0	24	638.39	9455	
SEAARB2006	05Sep2001:17:30:00	2.5	30	637.89	12780	
SEAARB2006	05Sep2001:17:30:00	3.0	36	637.39	9670	
SEAARB2006	05Sep2001:17:30:00	3.5	42	636.89	5473	
SEAARB2006	05Sep2001:17:30:00	4.0	48	636.39	4818	
SEAARB2006	05Sep2001:17:30:00	4.5	54	635.89	4350	
SEAARB2006	05Sep2001:17:30:00	5.0	60	635.39	3459	3498
SEAARB2006	05Sep2001:17:30:00	5.5	66	634.89	3382	
SEAARB2006	05Sep2001:17:30:00	6.0	72	634.39	3760	
SEAARB2006	05Sep2001:17:30:00	6.5	78	633.89	5344	
SEAARB2006	05Sep2001:17:30:00	7.0	84	633.39	5441	
SEAARB2006	05Sep2001:17:30:00	7.5	90	632.89	5364	
SEAARB2006	05Sep2001:17:30:00	8.0	96	632.39	3961	
SEAARB2006	05Sep2001:17:30:00	8.5	102	631.89	4866	
SEAARB2006	05Sep2001:17:30:00	9.0	108	631.39	4949	
SEAARB2006	05Sep2001:17:30:00	9.5	114	630.89	5623	
SEAARB2006	05Sep2001:17:30:00	10.0	120	630.39	7671	7559
SEAARB2006	05Sep2001:17:30:00	10.5	126	629.89	7610	
SEAARB2006	05Sep2001:17:30:00	11.0	132	629.39	7608	
SEAARB2006	05Sep2001:17:30:00	11.5	138	628.89	6162	
SEAARB2006	05Sep2001:17:30:00	12.0	144	628.39	3984	
SEAARB2006	05Sep2001:17:30:00	12.5	150	627.89	2753	
SEAARB2006	05Sep2001:17:30:00	13.0	156	627.39	2414	
SEAARB2006	05Sep2001:17:30:00	13.5	162	626.89	3411	
SEAARB2006	05Sep2001:17:30:00	14.0	168	626.39	4128	
SEAARB2006	05Sep2001:17:30:00	14.5	174	625.89	4826	
SEAARB2006	05Sep2001:17:30:00	15.0	180	625.39	5751	5918
SEAARB2006	05Sep2001:17:30:00	15.5	186	624.89	6035	
SEAARB2006	05Sep2001:17:30:00	16.0	192	624.39	7335	
SEAARB2006	05Sep2001:17:30:00	16.5	198	623.89	7134	
SEAARB2006	05Sep2001:17:30:00	17.0	204	623.39	7725	
SEAARB2006	05Sep2001:17:30:00	17.5	210	622.89	7239	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2006	05Sep2001:17:30:00	18.0	216	622.39	5695	
SEAARB2006	05Sep2001:17:30:00	18.5	222	621.89	5898	
SEAARB2006	05Sep2001:17:30:00	19.0	228	621.39	5907	
SEAARB2006	05Sep2001:17:30:00	19.5	234	620.89	5569	
SEAARB2006	05Sep2001:17:30:00	20.0	240	620.39	4766	4820
SEAARB2006	05Sep2001:17:30:00	20.5	246	619.89	5451	
SEAARB2006	05Sep2001:17:30:00	21.0	252	619.39	5769	
SEAARB2006	05Sep2001:17:30:00	21.5	258	618.89	5525	
SEAARB2006	05Sep2001:17:30:00	22.0	264	618.39	5245	
SEAARB2006	05Sep2001:17:30:00	22.5	270	617.89	5000	
SEAARB2006	05Sep2001:17:30:00	23.0	276	617.39	4870	
SEAARB2006	05Sep2001:17:30:00	23.5	282	616.89	4433	
SEAARB2006	05Sep2001:17:30:00	24.0	288	616.39	4158	
SEAARB2006	05Sep2001:17:30:00	24.5	294	615.89	3811	
SEAARB2006	05Sep2001:17:30:00	25.0	300	615.39	4301	4076
SEAARB2006	05Sep2001:17:30:00	25.5	306	614.89	5906	
SEAARB2006	05Sep2001:17:30:00	26.0	312	614.39	6772	
SEAARB2006	05Sep2001:17:30:00	26.5	318	613.89	5909	
SEAARB2006	05Sep2001:17:30:00	27.0	324	613.39	5202	
SEAARB2006	05Sep2001:17:30:00	27.5	330	612.89	4696	
SEAARB2006	05Sep2001:17:30:00	28.0	336	612.39	3926	
SEAARB2006	05Sep2001:17:30:00	28.5	342	611.89	3170	
SEAARB2006	05Sep2001:17:30:00	29.0	348	611.39	2869	2911
SEAARB2007	05Sep2001:15:10:00	0.0	0	659.84	6402	
SEAARB2007	05Sep2001:15:10:00	0.5	6	659.34	8679	
SEAARB2007	05Sep2001:15:10:00	1.0	12	658.84	8101	
SEAARB2007	05Sep2001:15:10:00	1.5	18	658.34		
SEAARB2007	05Sep2001:15:10:00	2.0	24	657.84		
SEAARB2007	05Sep2001:15:10:00	2.5	30	657.34		
SEAARB2007	05Sep2001:15:10:00	3.0	36	656.84	4162	
SEAARB2007	05Sep2001:15:10:00	3.5	42	656.34		
SEAARB2007	05Sep2001:15:10:00	4.0	48	655.84		
SEAARB2007	05Sep2001:15:10:00	4.5	54	655.34		
SEAARB2007	05Sep2001:15:10:00	5.0	60	654.84	1636	
SEAARB2007	05Sep2001:15:10:00	5.5	66	654.34		
SEAARB2007	05Sep2001:15:10:00	6.0	72	653.84		
SEAARB2007	05Sep2001:15:10:00	6.5	78	653.34		
SEAARB2007	05Sep2001:15:10:00	7.0	84	652.84	2451	
SEAARB2007	05Sep2001:15:10:00	7.5	90	652.34		
SEAARB2007	05Sep2001:15:10:00	8.0	96	651.84		
SEAARB2007	05Sep2001:15:10:00	8.5	102	651.34		
SEAARB2007	05Sep2001:15:10:00	9.0	108	650.84	5480	
SEAARB2007	05Sep2001:15:10:00	9.5	114	650.34		
SEAARB2007	05Sep2001:15:10:00	10.0	120	649.84		
SEAARB2007	05Sep2001:15:10:00	10.5	126	649.34		
SEAARB2007	05Sep2001:15:10:00	11.0	132	648.84	4454	
SEAARB2007	05Sep2001:15:10:00	11.5	138	648.34		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2007	05Sep2001:15:10:00	12.0	144	647.84		
SEAARB2007	05Sep2001:15:10:00	12.5	150	647.34		
SEAARB2007	05Sep2001:15:10:00	13.0	156	646.84	2195	
SEAARB2007	05Sep2001:15:10:00	13.5	162	646.34		
SEAARB2007	05Sep2001:15:10:00	14.0	168	645.84		
SEAARB2007	05Sep2001:15:10:00	14.5	174	645.34		
SEAARB2007	05Sep2001:15:10:00	15.0	180	644.84	2622	2645
SEAARB2007	05Sep2001:15:10:00	15.5	186	644.34		
SEAARB2007	05Sep2001:15:10:00	16.0	192	643.84		
SEAARB2007	05Sep2001:15:10:00	16.5	198	643.34		
SEAARB2007	05Sep2001:15:10:00	17.0	204	642.84	3343	
SEAARB2007	05Sep2001:15:10:00	17.5	210	642.34		
SEAARB2007	05Sep2001:15:10:00	18.0	216	641.84		
SEAARB2007	05Sep2001:15:10:00	18.5	222	641.34		
SEAARB2007	05Sep2001:15:10:00	19.0	228	640.84	2995	
SEAARB2007	05Sep2001:15:10:00	19.5	234	640.34		
SEAARB2007	05Sep2001:15:10:00	20.0	240	639.84		
SEAARB2007	05Sep2001:15:10:00	20.5	246	639.34		
SEAARB2007	05Sep2001:15:10:00	21.0	252	638.84	5293	
SEAARB2007	05Sep2001:15:10:00	21.5	258	638.34		
SEAARB2007	05Sep2001:15:10:00	22.0	264	637.84		
SEAARB2007	05Sep2001:15:10:00	22.5	270	637.34		
SEAARB2007	05Sep2001:15:10:00	23.0	276	636.84	5817	
SEAARB2007	05Sep2001:15:10:00	23.5	282	636.34		
SEAARB2007	05Sep2001:15:10:00	24.0	288	635.84		
SEAARB2007	05Sep2001:15:10:00	24.5	294	635.34		
SEAARB2007	05Sep2001:15:10:00	25.0	300	634.84	6372	
SEAARB2007	05Sep2001:15:10:00	25.5	306	634.34		
SEAARB2007	05Sep2001:15:10:00	26.0	312	633.84		
SEAARB2007	05Sep2001:15:10:00	26.5	318	633.34		
SEAARB2007	05Sep2001:15:10:00	27.0	324	632.84	5988	
SEAARB2007	05Sep2001:15:10:00	27.5	330	632.34		
SEAARB2007	05Sep2001:15:10:00	28.0	336	631.84		
SEAARB2007	05Sep2001:15:10:00	28.5	342	631.34		
SEAARB2007	05Sep2001:15:10:00	29.0	348	630.84	5464	
SEAARB2007	05Sep2001:15:10:00	29.5	354	630.34		
SEAARB2007	05Sep2001:15:10:00	30.0	360	629.84		
SEAARB2007	05Sep2001:15:10:00	30.5	366	629.34	2924	2984
SEAARB2007	05Sep2001:15:10:00	31.0	372	628.84	2649	
SEAARB2007	05Sep2001:15:10:00	31.5	378	628.34	3334	
SEAARB2007	05Sep2001:15:10:00	32.0	384	627.84	4422	
SEAARB2007	05Sep2001:15:10:00	32.5	390	627.34	4531	
SEAARB2007	05Sep2001:15:10:00	33.0	396	626.84	4873	
SEAARB2007	05Sep2001:15:10:00	33.5	402	626.34	4294	
SEAARB2007	05Sep2001:15:10:00	34.0	408	625.84	3547	
SEAARB2007	05Sep2001:15:10:00	34.5	414	625.34	4691	
SEAARB2007	05Sep2001:15:10:00	35.0	420	624.84	4953	5110

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2007	05Sep2001:15:10:00	35.5	426	624.34	4245	
SEAARB2007	05Sep2001:15:10:00	36.0	432	623.84	3437	
SEAARB2007	05Sep2001:15:10:00	36.5	438	623.34	4012	
SEAARB2007	05Sep2001:15:10:00	37.0	444	622.84	5002	
SEAARB2007	05Sep2001:15:10:00	37.5	450	622.34	3733	
SEAARB2007	05Sep2001:15:10:00	38.0	456	621.84	4500	
SEAARB2007	05Sep2001:15:10:00	38.5	462	621.34	6810	
SEAARB2007	05Sep2001:15:10:00	39.0	468	620.84	8346	
SEAARB2007	05Sep2001:15:10:00	39.5	474	620.34	8506	
SEAARB2007	05Sep2001:15:10:00	40.0	480	619.84	7879	8092
SEAARB2007	05Sep2001:15:10:00	40.5	486	619.34	6516	
SEAARB2007	05Sep2001:15:10:00	41.0	492	618.84	6912	
SEAARB2007	05Sep2001:15:10:00	41.5	498	618.34	6710	
SEAARB2007	05Sep2001:15:10:00	42.0	504	617.84	6398	
SEAARB2007	05Sep2001:15:10:00	42.5	510	617.34	7069	
SEAARB2007	05Sep2001:15:10:00	43.0	516	616.84	6175	
SEAARB2007	05Sep2001:15:10:00	43.5	522	616.34	4725	
SEAARB2007	05Sep2001:15:10:00	44.0	528	615.84	3645	
SEAARB2007	05Sep2001:15:10:00	44.5	534	615.34	3995	
SEAARB2008	06Sep2001:08:00:00	0.0	0	697.36	5216	
SEAARB2008	06Sep2001:08:00:00	0.5	6	696.86	5878	
SEAARB2008	06Sep2001:08:00:00	1.0	12	696.36	4064	
SEAARB2008	06Sep2001:08:00:00	1.5	18	695.86		
SEAARB2008	06Sep2001:08:00:00	2.0	24	695.36		
SEAARB2008	06Sep2001:08:00:00	2.5	30	694.86		
SEAARB2008	06Sep2001:08:00:00	3.0	36	694.36	3274	
SEAARB2008	06Sep2001:08:00:00	3.5	42	693.86		
SEAARB2008	06Sep2001:08:00:00	4.0	48	693.36		
SEAARB2008	06Sep2001:08:00:00	4.5	54	692.86		
SEAARB2008	06Sep2001:08:00:00	5.0	60	692.36	4827	
SEAARB2008	06Sep2001:08:00:00	5.5	66	691.86		
SEAARB2008	06Sep2001:08:00:00	6.0	72	691.36		
SEAARB2008	06Sep2001:08:00:00	6.5	78	690.86		
SEAARB2008	06Sep2001:08:00:00	7.0	84	690.36	1800	
SEAARB2008	06Sep2001:08:00:00	7.5	90	689.86		
SEAARB2008	06Sep2001:08:00:00	8.0	96	689.36		
SEAARB2008	06Sep2001:08:00:00	8.5	102	688.86		
SEAARB2008	06Sep2001:08:00:00	9.0	108	688.36	1966	
SEAARB2008	06Sep2001:08:00:00	9.5	114	687.86		
SEAARB2008	06Sep2001:08:00:00	10.0	120	687.36		
SEAARB2008	06Sep2001:08:00:00	10.5	126	686.86		
SEAARB2008	06Sep2001:08:00:00	11.0	132	686.36	6359	
SEAARB2008	06Sep2001:08:00:00	11.5	138	685.86		
SEAARB2008	06Sep2001:08:00:00	12.0	144	685.36		
SEAARB2008	06Sep2001:08:00:00	12.5	150	684.86		
SEAARB2008	06Sep2001:08:00:00	13.0	156	684.36	6329	
SEAARB2008	06Sep2001:08:00:00	13.5	162	683.86		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2008	06Sep2001:08:00:00	14.0	168	683.36		
SEAARB2008	06Sep2001:08:00:00	14.5	174	682.86		
SEAARB2008	06Sep2001:08:00:00	15.0	180	682.36	7291	7455
SEAARB2008	06Sep2001:08:00:00	15.5	186	681.86		
SEAARB2008	06Sep2001:08:00:00	16.0	192	681.36		
SEAARB2008	06Sep2001:08:00:00	16.5	198	680.86		
SEAARB2008	06Sep2001:08:00:00	17.0	204	680.36	6163	
SEAARB2008	06Sep2001:08:00:00	17.5	210	679.86		
SEAARB2008	06Sep2001:08:00:00	18.0	216	679.36		
SEAARB2008	06Sep2001:08:00:00	18.5	222	678.86		
SEAARB2008	06Sep2001:08:00:00	19.0	228	678.36	5061	
SEAARB2008	06Sep2001:08:00:00	19.5	234	677.86		
SEAARB2008	06Sep2001:08:00:00	20.0	240	677.36		
SEAARB2008	06Sep2001:08:00:00	20.5	246	676.86		
SEAARB2008	06Sep2001:08:00:00	21.0	252	676.36	4071	
SEAARB2008	06Sep2001:08:00:00	21.5	258	675.86		
SEAARB2008	06Sep2001:08:00:00	22.0	264	675.36		
SEAARB2008	06Sep2001:08:00:00	22.5	270	674.86		
SEAARB2008	06Sep2001:08:00:00	23.0	276	674.36	4342	
SEAARB2008	06Sep2001:08:00:00	23.5	282	673.86		
SEAARB2008	06Sep2001:08:00:00	24.0	288	673.36		
SEAARB2008	06Sep2001:08:00:00	24.5	294	672.86		
SEAARB2008	06Sep2001:08:00:00	25.0	300	672.36	5291	
SEAARB2008	06Sep2001:08:00:00	25.5	306	671.86		
SEAARB2008	06Sep2001:08:00:00	26.0	312	671.36		
SEAARB2008	06Sep2001:08:00:00	26.5	318	670.86		
SEAARB2008	06Sep2001:08:00:00	27.0	324	670.36	2054	
SEAARB2008	06Sep2001:08:00:00	27.5	330	669.86		
SEAARB2008	06Sep2001:08:00:00	28.0	336	669.36		
SEAARB2008	06Sep2001:08:00:00	28.5	342	668.86		
SEAARB2008	06Sep2001:08:00:00	29.0	348	668.36	6387	
SEAARB2008	06Sep2001:08:00:00	29.5	354	667.86		
SEAARB2008	06Sep2001:08:00:00	30.0	360	667.36		
SEAARB2008	06Sep2001:08:00:00	30.5	366	666.86		
SEAARB2008	06Sep2001:08:00:00	31.0	372	666.36	2020	
SEAARB2008	06Sep2001:08:00:00	31.5	378	665.86		
SEAARB2008	06Sep2001:08:00:00	32.0	384	665.36		
SEAARB2008	06Sep2001:08:00:00	32.5	390	664.86		
SEAARB2008	06Sep2001:08:00:00	33.0	396	664.36	2016	
SEAARB2008	06Sep2001:08:00:00	33.5	402	663.86		
SEAARB2008	06Sep2001:08:00:00	34.0	408	663.36		
SEAARB2008	06Sep2001:08:00:00	34.5	414	662.86		
SEAARB2008	06Sep2001:08:00:00	35.0	420	662.36	3506	3433
SEAARB2008	06Sep2001:08:00:00	35.5	426	661.86		
SEAARB2008	06Sep2001:08:00:00	36.0	432	661.36		
SEAARB2008	06Sep2001:08:00:00	36.5	438	660.86		
SEAARB2008	06Sep2001:08:00:00	37.0	444	660.36	3150	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2008	06Sep2001:08:00:00	37.5	450	659.86		
SEAARB2008	06Sep2001:08:00:00	38.0	456	659.36		
SEAARB2008	06Sep2001:08:00:00	38.5	462	658.86		
SEAARB2008	06Sep2001:08:00:00	39.0	468	658.36	4076	
SEAARB2008	06Sep2001:08:00:00	39.5	474	657.86		
SEAARB2008	06Sep2001:08:00:00	40.0	480	657.36		
SEAARB2008	06Sep2001:08:00:00	40.5	486	656.86		
SEAARB2008	06Sep2001:08:00:00	41.0	492	656.36	3916	
SEAARB2008	06Sep2001:08:00:00	41.5	498	655.86		
SEAARB2008	06Sep2001:08:00:00	42.0	504	655.36		
SEAARB2008	06Sep2001:08:00:00	42.5	510	654.86		
SEAARB2008	06Sep2001:08:00:00	43.0	516	654.36	3443	
SEAARB2008	06Sep2001:08:00:00	43.5	522	653.86		
SEAARB2008	06Sep2001:08:00:00	44.0	528	653.36		
SEAARB2008	06Sep2001:08:00:00	44.5	534	652.86		
SEAARB2008	06Sep2001:08:00:00	45.0	540	652.36	3700	
SEAARB2008	06Sep2001:08:00:00	45.5	546	651.86		
SEAARB2008	06Sep2001:08:00:00	46.0	552	651.36		
SEAARB2008	06Sep2001:08:00:00	46.5	558	650.86		
SEAARB2008	06Sep2001:08:00:00	47.0	564	650.36	5694	
SEAARB2008	06Sep2001:08:00:00	47.5	570	649.86		
SEAARB2008	06Sep2001:08:00:00	48.0	576	649.36		
SEAARB2008	06Sep2001:08:00:00	48.5	582	648.86		
SEAARB2008	06Sep2001:08:00:00	49.0	588	648.36	1960	1948
SEAARB2008	06Sep2001:08:00:00	49.5	594	647.86		
SEAARB2008	06Sep2001:08:00:00	50.0	600	647.36		
SEAARB2008	06Sep2001:08:00:00	50.5	606	646.86		
SEAARB2008	06Sep2001:08:00:00	51.0	612	646.36	3529	
SEAARB2008	06Sep2001:08:00:00	51.5	618	645.86		
SEAARB2008	06Sep2001:08:00:00	52.0	624	645.36		
SEAARB2008	06Sep2001:08:00:00	52.5	630	644.86		
SEAARB2008	06Sep2001:08:00:00	53.0	636	644.36	3626	3650
SEAARB2008	06Sep2001:08:00:00	53.5	642	643.86		
SEAARB2008	06Sep2001:08:00:00	54.0	648	643.36		
SEAARB2008	06Sep2001:08:00:00	54.5	654	642.86		
SEAARB2008	06Sep2001:08:00:00	55.0	660	642.36	2329	
SEAARB2008	06Sep2001:08:00:00	55.5	666	641.86		
SEAARB2008	06Sep2001:08:00:00	56.0	672	641.36		
SEAARB2008	06Sep2001:08:00:00	56.5	678	640.86		
SEAARB2008	06Sep2001:08:00:00	57.0	684	640.36	4658	
SEAARB2008	06Sep2001:08:00:00	57.5	690	639.86		
SEAARB2008	06Sep2001:08:00:00	58.0	696	639.36		
SEAARB2008	06Sep2001:08:00:00	58.5	702	638.86	3749	
SEAARB2008	06Sep2001:08:00:00	59.0	708	638.36		
SEAARB2008	06Sep2001:08:00:00	59.5	714	637.86		
SEAARB2008	18Sep2001:00:00:00	60.0	720	637.36	5764	
SEAARB2008	18Sep2001:00:00:00	60.5	726	636.86	6136	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2008	18Sep2001:00:00:00	61.0	732	636.36	7023	
SEAARB2008	18Sep2001:00:00:00	61.5	738	635.86	7428	
SEAARB2008	18Sep2001:00:00:00	62.0	744	635.36	6431	
SEAARB2008	18Sep2001:00:00:00	62.5	750	634.86	5799	
SEAARB2008	18Sep2001:00:00:00	63.0	756	634.36	5005	
SEAARB2008	18Sep2001:00:00:00	63.5	762	633.86	5186	
SEAARB2008	18Sep2001:00:00:00	64.0	768	633.36	5786	
SEAARB2008	18Sep2001:00:00:00	64.5	774	632.86	5647	
SEAARB2008	18Sep2001:00:00:00	65.0	780	632.36	5945	
SEAARB2008	18Sep2001:00:00:00	65.5	786	631.86	5655	
SEAARB2008	18Sep2001:00:00:00	66.0	792	631.36	5067	
SEAARB2008	18Sep2001:00:00:00	66.5	798	630.86	4869	
SEAARB2008	18Sep2001:00:00:00	67.0	804	630.36	5608	
SEAARB2008	18Sep2001:00:00:00	67.5	810	629.86	5652	
SEAARB2008	18Sep2001:00:00:00	68.0	816	629.36	6322	
SEAARB2008	18Sep2001:00:00:00	68.5	822	628.86	7414	
SEAARB2008	18Sep2001:00:00:00	69.0	828	628.36	7130	
SEAARB2008	18Sep2001:00:00:00	69.5	834	627.86	5954	
SEAARB2008	18Sep2001:00:00:00	70.0	840	627.36	4463	
SEAARB2008	18Sep2001:00:00:00	70.5	846	626.86	4297	
SEAARB2008	18Sep2001:00:00:00	71.0	852	626.36	4775	
SEAARB2008	18Sep2001:00:00:00	71.5	858	625.86	6123	
SEAARB2008	18Sep2001:00:00:00	72.0	864	625.36	7381	
SEAARB2008	18Sep2001:00:00:00	72.5	870	624.86	7943	
SEAARB2008	18Sep2001:00:00:00	73.0	876	624.36	8262	
SEAARB2008	18Sep2001:00:00:00	73.5	882	623.86	8163	
SEAARB2008	18Sep2001:00:00:00	74.0	888	623.36	9009	
SEAARB2008	18Sep2001:00:00:00	74.5	894	622.86	8796	
SEAARB2008	18Sep2001:00:00:00	75.0	900	622.36	9388	
SEAARB2008	18Sep2001:00:00:00	75.5	906	621.86	9467	
SEAARB2008	18Sep2001:00:00:00	76.0	912	621.36	9261	
SEAARB2008	18Sep2001:00:00:00	76.5	918	620.86	9074	
SEAARB2008	18Sep2001:00:00:00	77.0	924	620.36	8755	
SEAARB2008	18Sep2001:00:00:00	77.5	930	619.86	9078	
SEAARB2008	18Sep2001:00:00:00	78.0	936	619.36	10253	
SEAARB2008	18Sep2001:00:00:00	78.5	942	618.86	8940	
SEAARB2008	18Sep2001:00:00:00	79.0	948	618.36	7324	
SEAARB2008	18Sep2001:00:00:00	79.5	954	617.86	5951	
SEAARB2008	18Sep2001:00:00:00	80.0	960	617.36	5363	
SEAARB2008	18Sep2001:00:00:00	80.5	966	616.86	5437	
SEAARB2008	18Sep2001:00:00:00	81.0	972	616.36	5699	
SEAARB2008	18Sep2001:00:00:00	81.5	978	615.86	6002	
SEAARB2008	18Sep2001:00:00:00	82.0	984	615.36	6177	
SEAARB2008	18Sep2001:00:00:00	82.5	990	614.86	6463	
SEAARB2008	18Sep2001:00:00:00	83.0	996	614.36	7224	
SEAARB2008	18Sep2001:00:00:00	83.5	1002	613.86	8173	
SEAARB2008	18Sep2001:00:00:00	84.0	1008	613.36	8736	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2008	18Sep2001:00:00:00	84.5	1014	612.86	9560	
SEAARB2008	18Sep2001:00:00:00	85.0	1020	612.36	9708	
SEAARB2008	18Sep2001:00:00:00	85.5	1026	611.86	11443	
SEAARB2010	06Sep2001:15:30:00	0.0	0	645.43	4050	
SEAARB2010	06Sep2001:15:30:00	0.5	6	644.93	5912	
SEAARB2010	06Sep2001:15:30:00	1.0	12	644.43	6951	
SEAARB2010	06Sep2001:15:30:00	1.5	18	643.93	7283	
SEAARB2010	06Sep2001:15:30:00	2.0	24	643.43	7016	
SEAARB2010	06Sep2001:15:30:00	2.5	30	642.93	6369	
SEAARB2010	06Sep2001:15:30:00	3.0	36	642.43	5213	
SEAARB2010	06Sep2001:15:30:00	3.5	42	641.93	4767	
SEAARB2010	06Sep2001:15:30:00	4.0	48	641.43	4645	
SEAARB2010	06Sep2001:15:30:00	4.5	54	640.93	4260	
SEAARB2010	06Sep2001:15:30:00	5.0	60	640.43	3682	3668
SEAARB2010	06Sep2001:15:30:00	5.5	66	639.93	2298	
SEAARB2010	06Sep2001:15:30:00	6.0	72	639.43	1756	
SEAARB2010	06Sep2001:15:30:00	6.5	78	638.93	1568	
SEAARB2010	06Sep2001:15:30:00	7.0	84	638.43	1303	
SEAARB2010	06Sep2001:15:30:00	7.5	90	637.93	1256	
SEAARB2010	06Sep2001:15:30:00	8.0	96	637.43	1242	
SEAARB2010	06Sep2001:15:30:00	8.5	102	636.93	1368	
SEAARB2010	06Sep2001:15:30:00	9.0	108	636.43	1338	
SEAARB2010	06Sep2001:15:30:00	9.5	114	635.93	1452	
SEAARB2010	06Sep2001:15:30:00	10.0	120	635.43	1566	1584
SEAARB2010	06Sep2001:15:30:00	10.5	126	634.93	1491	
SEAARB2010	06Sep2001:15:30:00	11.0	132	634.43	2349	
SEAARB2010	06Sep2001:15:30:00	11.5	138	633.93	3907	
SEAARB2010	06Sep2001:15:30:00	12.0	144	633.43	4581	
SEAARB2010	06Sep2001:15:30:00	12.5	150	632.93	5806	
SEAARB2010	06Sep2001:15:30:00	13.0	156	632.43	5523	
SEAARB2010	06Sep2001:15:30:00	13.5	162	631.93	4805	
SEAARB2010	06Sep2001:15:30:00	14.0	168	631.43	6964	
SEAARB2010	06Sep2001:15:30:00	14.5	174	630.93	7537	
SEAARB2010	06Sep2001:15:30:00	15.0	180	630.43	5803	5746
SEAARB2010	06Sep2001:15:30:00	15.5	186	629.93	5130	
SEAARB2010	06Sep2001:15:30:00	16.0	192	629.43	4973	
SEAARB2010	06Sep2001:15:30:00	16.5	198	628.93	5992	
SEAARB2010	06Sep2001:15:30:00	17.0	204	628.43	7064	
SEAARB2010	06Sep2001:15:30:00	17.5	210	627.93	5474	
SEAARB2010	06Sep2001:15:30:00	18.0	216	627.43	4680	
SEAARB2010	06Sep2001:15:30:00	18.5	222	626.93	4487	
SEAARB2010	06Sep2001:15:30:00	19.0	228	626.43	4263	
SEAARB2010	06Sep2001:15:30:00	19.5	234	625.93	6111	
SEAARB2010	06Sep2001:15:30:00	20.0	240	625.43	6778	6698
SEAARB2010	06Sep2001:15:30:00	20.5	246	624.93	5425	
SEAARB2010	06Sep2001:15:30:00	21.0	252	624.43	4011	
SEAARB2010	06Sep2001:15:30:00	21.5	258	623.93	3006	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARB2010	06Sep2001:15:30:00	22.0	264	623.43	4205	
SEAARB2010	06Sep2001:15:30:00	22.5	270	622.93	4322	
SEAARB2010	06Sep2001:15:30:00	23.0	276	622.43	3601	
SEAARB2010	06Sep2001:15:30:00	23.5	282	621.93	2863	
SEAARB2010	06Sep2001:15:30:00	24.0	288	621.43	2903	
SEAARB2010	06Sep2001:15:30:00	24.5	294	620.93	4303	
SEAARB2010	06Sep2001:15:30:00	25.0	300	620.43	6472	6462
SEAARC1001	18Aug2001:09:50:00	0.0	0	636.26	6404	
SEAARC1001	18Aug2001:09:50:00	0.5	6	635.76	9298	
SEAARC1001	18Aug2001:09:50:00	1.0	12	635.26	9825	
SEAARC1001	18Aug2001:09:50:00	1.5	18	634.76	8699	
SEAARC1001	18Aug2001:09:50:00	2.0	24	634.26	8684	
SEAARC1001	18Aug2001:09:50:00	2.5	30	633.76	10313	
SEAARC1001	18Aug2001:09:50:00	3.0	36	633.26	17140	
SEAARC1001	18Aug2001:09:50:00	3.5	42	632.76	44306	
SEAARC1001	18Aug2001:09:50:00	4.0	48	632.26	64524	
SEAARC1001	18Aug2001:09:50:00	4.5	54	631.76	40581	
SEAARC1001	18Aug2001:09:50:00	5.0	60	631.26	23506	21460
SEAARC1001	18Aug2001:09:50:00	5.5	66	630.76	8707	
SEAARC1001	18Aug2001:09:50:00	6.0	72	630.26	5128	
SEAARC1001	18Aug2001:09:50:00	6.5	78	629.76	5260	
SEAARC1001	18Aug2001:09:50:00	7.0	84	629.26	4305	
SEAARC1001	18Aug2001:09:50:00	7.5	90	628.76	5119	
SEAARC1001	18Aug2001:09:50:00	8.0	96	628.26	7036	
SEAARC1001	18Aug2001:09:50:00	8.5	102	627.76	9461	
SEAARC1001	18Aug2001:09:50:00	9.0	108	627.26	7844	
SEAARC1001	18Aug2001:09:50:00	9.5	114	626.76	4192	
SEAARC1001	18Aug2001:09:50:00	10.0	120	626.26	2947	2940
SEAARC1002	18Aug2001:13:45:00	0.0	0	639.13	5449	
SEAARC1002	18Aug2001:13:45:00	0.5	6	638.63	7072	
SEAARC1002	18Aug2001:13:45:00	1.0	12	638.13	8715	
SEAARC1002	18Aug2001:13:45:00	1.5	18	637.63	8496	
SEAARC1002	18Aug2001:13:45:00	2.0	24	637.13	8204	
SEAARC1002	18Aug2001:13:45:00	2.5	30	636.63	6740	
SEAARC1002	18Aug2001:13:45:00	3.0	36	636.13	8390	
SEAARC1002	18Aug2001:13:45:00	3.5	42	635.63	7709	
SEAARC1002	18Aug2001:13:45:00	4.0	48	635.13	5915	
SEAARC1002	18Aug2001:13:45:00	4.5	54	634.63	7157	
SEAARC1002	18Aug2001:13:45:00	5.0	60	634.13	13869	13985
SEAARC1002	18Aug2001:13:45:00	5.5	66	633.63	39420	
SEAARC1002	18Aug2001:13:45:00	6.0	72	633.13	74459	
SEAARC1002	18Aug2001:13:45:00	6.5	78	632.63	75621	
SEAARC1002	18Aug2001:13:45:00	7.0	84	632.13	62271	
SEAARC1002	18Aug2001:13:45:00	7.5	90	631.63	29033	
SEAARC1002	18Aug2001:13:45:00	8.0	96	631.13	9961	
SEAARC1002	18Aug2001:13:45:00	8.5	102	630.63	6723	
SEAARC1002	18Aug2001:13:45:00	9.0	108	630.13	7013	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC1002	18Aug2001:13:45:00	9.5	114	629.63	4555	
SEAARC1002	18Aug2001:13:45:00	10.0	120	629.13	5056	5050
SEAARC1002	18Aug2001:13:45:00	10.5	126	628.63	7091	
SEAARC1002	18Aug2001:13:45:00	11.0	132	628.13	8173	
SEAARC1002	18Aug2001:13:45:00	11.5	138	627.63	5710	
SEAARC1002	18Aug2001:13:45:00	12.0	144	627.13	2787	
SEAARC1002	18Aug2001:13:45:00	12.5	150	626.63	2377	
SEAARC1002	18Aug2001:13:45:00	13.0	156	626.13	2615	2658
SEAARC1003	18Aug2001:10:45:00	0.0	0	641.48	4759	
SEAARC1003	18Aug2001:10:45:00	0.5	6	640.98	5263	
SEAARC1003	18Aug2001:10:45:00	1.0	12	640.48	5616	
SEAARC1003	18Aug2001:10:45:00	1.5	18	639.98	5822	
SEAARC1003	18Aug2001:10:45:00	2.0	24	639.48	6738	
SEAARC1003	18Aug2001:10:45:00	2.5	30	638.98	6739	
SEAARC1003	18Aug2001:10:45:00	3.0	36	638.48	4508	
SEAARC1003	18Aug2001:10:45:00	3.5	42	637.98	2518	
SEAARC1003	18Aug2001:10:45:00	4.0	48	637.48	1590	
SEAARC1003	18Aug2001:10:45:00	4.5	54	636.98	1344	
SEAARC1003	18Aug2001:10:45:00	5.0	60	636.48	1895	
SEAARC1003	18Aug2001:10:45:00	5.5	66	635.98	2120	2084
SEAARC1003	18Aug2001:10:45:00	6.0	72	635.48	3414	
SEAARC1003	18Aug2001:10:45:00	6.5	78	634.98	5827	
SEAARC1003	18Aug2001:10:45:00	7.0	84	634.48	7314	
SEAARC1003	18Aug2001:10:45:00	7.5	90	633.98	9213	
SEAARC1003	18Aug2001:10:45:00	8.0	96	633.48	20411	
SEAARC1003	18Aug2001:10:45:00	8.5	102	632.98	49712	
SEAARC1003	18Aug2001:10:45:00	9.0	108	632.48	58477	
SEAARC1003	18Aug2001:10:45:00	9.5	114	631.98	23350	
SEAARC1003	18Aug2001:10:45:00	10.0	120	631.48	10615	10812
SEAARC1003	18Aug2001:10:45:00	10.5	126	630.98	6374	
SEAARC1003	18Aug2001:10:45:00	11.0	132	630.48	4669	5075
SEAARC1003	18Aug2001:10:45:00	11.5	138	629.98	5246	
SEAARC1003	18Aug2001:10:45:00	12.0	144	629.48	4782	
SEAARC1003	18Aug2001:10:45:00	12.5	150	628.98	3903	
SEAARC1003	18Aug2001:10:45:00	13.0	156	628.48	2754	
SEAARC1003	18Aug2001:10:45:00	13.5	162	627.98	2712	
SEAARC1003	18Aug2001:10:45:00	14.0	168	627.48	3155	
SEAARC1003	18Aug2001:10:45:00	14.5	174	626.98	2631	
SEAARC1003	18Aug2001:10:45:00	15.0	180	626.48	2225	2207
SEAARC1003	18Aug2001:10:45:00	15.5	186	625.98	1698	
SEAARC1003	18Aug2001:10:45:00	16.0	192	625.48	1922	
SEAARC1003	18Aug2001:10:45:00	16.5	198	624.98	2148	
SEAARC1005	29Aug2001:14:00:00	0.0	0	662.17	5062	
SEAARC1005	29Aug2001:14:00:00	0.5	6	661.67	5585	
SEAARC1005	29Aug2001:14:00:00	1.0	12	661.17	5535	
SEAARC1005	29Aug2001:14:00:00	1.5	18	660.67		
SEAARC1005	29Aug2001:14:00:00	2.0	24	660.17		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC1005	29Aug2001:14:00:00	2.5	30	659.67		
SEAARC1005	29Aug2001:14:00:00	3.0	36	659.17	2304	
SEAARC1005	29Aug2001:14:00:00	3.5	42	658.67		
SEAARC1005	29Aug2001:14:00:00	4.0	48	658.17		
SEAARC1005	29Aug2001:14:00:00	4.5	54	657.67		
SEAARC1005	29Aug2001:14:00:00	5.0	60	657.17	5510	
SEAARC1005	29Aug2001:14:00:00	5.5	66	656.67		
SEAARC1005	29Aug2001:14:00:00	6.0	72	656.17		
SEAARC1005	29Aug2001:14:00:00	6.5	78	655.67		
SEAARC1005	29Aug2001:14:00:00	7.0	84	655.17	8402	
SEAARC1005	29Aug2001:14:00:00	7.5	90	654.67		
SEAARC1005	29Aug2001:14:00:00	8.0	96	654.17		
SEAARC1005	29Aug2001:14:00:00	8.5	102	653.67		
SEAARC1005	29Aug2001:14:00:00	9.0	108	653.17	6025	
SEAARC1005	29Aug2001:14:00:00	9.5	114	652.67		
SEAARC1005	29Aug2001:14:00:00	10.0	120	652.17		
SEAARC1005	29Aug2001:14:00:00	10.5	126	651.67		
SEAARC1005	29Aug2001:14:00:00	11.0	132	651.17	4425	
SEAARC1005	29Aug2001:14:00:00	11.5	138	650.67		
SEAARC1005	29Aug2001:14:00:00	12.0	144	650.17		
SEAARC1005	29Aug2001:14:00:00	12.5	150	649.67		
SEAARC1005	29Aug2001:14:00:00	13.0	156	649.17	3320	
SEAARC1005	29Aug2001:14:00:00	13.5	162	648.67		
SEAARC1005	29Aug2001:14:00:00	14.0	168	648.17		
SEAARC1005	29Aug2001:14:00:00	14.5	174	647.67		
SEAARC1005	29Aug2001:14:00:00	15.0	180	647.17	5911	5790
SEAARC1005	29Aug2001:14:00:00	15.5	186	646.67		
SEAARC1005	29Aug2001:14:00:00	16.0	192	646.17		
SEAARC1005	29Aug2001:14:00:00	16.5	198	645.67		
SEAARC1005	29Aug2001:14:00:00	17.0	204	645.17	5429	
SEAARC1005	29Aug2001:14:00:00	17.5	210	644.67		
SEAARC1005	29Aug2001:14:00:00	18.0	216	644.17		
SEAARC1005	29Aug2001:14:00:00	18.5	222	643.67		
SEAARC1005	29Aug2001:14:00:00	19.0	228	643.17	5551	
SEAARC1005	29Aug2001:14:00:00	19.5	234	642.67		
SEAARC1005	29Aug2001:14:00:00	20.0	240	642.17	4870	4836
SEAARC1005	29Aug2001:14:00:00	20.5	246	641.67	5136	
SEAARC1005	29Aug2001:14:00:00	21.0	252	641.17	4836	
SEAARC1005	29Aug2001:14:00:00	21.5	258	640.67	5215	
SEAARC1005	29Aug2001:14:00:00	22.0	264	640.17	6689	
SEAARC1005	29Aug2001:14:00:00	22.5	270	639.67	7650	
SEAARC1005	29Aug2001:14:00:00	23.0	276	639.17	5843	
SEAARC1005	29Aug2001:14:00:00	23.5	282	638.67	4005	
SEAARC1005	29Aug2001:14:00:00	24.0	288	638.17	2824	
SEAARC1005	29Aug2001:14:00:00	24.5	294	637.67	2510	
SEAARC1005	29Aug2001:14:00:00	25.0	300	637.17	3097	3097
SEAARC1005	29Aug2001:14:00:00	25.5	306	636.67	3433	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC1005	29Aug2001:14:00:00	26.0	312	636.17	3296	
SEAARC1005	29Aug2001:14:00:00	26.5	318	635.67	3267	
SEAARC1005	29Aug2001:14:00:00	27.0	324	635.17	3218	
SEAARC1005	29Aug2001:14:00:00	27.5	330	634.67	3382	
SEAARC1005	29Aug2001:14:00:00	28.0	336	634.17	3650	
SEAARC1005	29Aug2001:14:00:00	28.5	342	633.67	3681	
SEAARC1005	29Aug2001:14:00:00	29.0	348	633.17	3883	
SEAARC1005	29Aug2001:14:00:00	29.5	354	632.67	4103	
SEAARC1005	29Aug2001:14:00:00	30.0	360	632.17	3443	3501
SEAARC1005	29Aug2001:14:00:00	30.5	366	631.67	2971	
SEAARC1005	29Aug2001:14:00:00	31.0	372	631.17	3073	
SEAARC1005	29Aug2001:14:00:00	31.5	378	630.67	3013	
SEAARC1005	29Aug2001:14:00:00	32.0	384	630.17	3450	
SEAARC1005	29Aug2001:14:00:00	32.5	390	629.67	5923	
SEAARC1005	29Aug2001:14:00:00	33.0	396	629.17	8944	
SEAARC1005	29Aug2001:14:00:00	33.5	402	628.67	9725	
SEAARC1005	29Aug2001:14:00:00	34.0	408	628.17	15307	
SEAARC1005	29Aug2001:14:00:00	34.5	414	627.67	12150	
SEAARC1005	29Aug2001:14:00:00	35.0	420	627.17	7957	8045
SEAARC1006	30Aug2001:16:30:00	0.0	0	688.89	4870	
SEAARC1006	30Aug2001:16:30:00	0.5	6	688.39	5663	
SEAARC1006	30Aug2001:16:30:00	1.0	12	687.89	5244	
SEAARC1006	30Aug2001:16:30:00	1.5	18	687.39		
SEAARC1006	30Aug2001:16:30:00	2.0	24	686.89		
SEAARC1006	30Aug2001:16:30:00	2.5	30	686.39		
SEAARC1006	30Aug2001:16:30:00	3.0	36	685.89	4640	
SEAARC1006	30Aug2001:16:30:00	3.5	42	685.39		
SEAARC1006	30Aug2001:16:30:00	4.0	48	684.89		
SEAARC1006	30Aug2001:16:30:00	4.5	54	684.39		
SEAARC1006	30Aug2001:16:30:00	5.0	60	683.89	6854	
SEAARC1006	30Aug2001:16:30:00	5.5	66	683.39		
SEAARC1006	30Aug2001:16:30:00	6.0	72	682.89		
SEAARC1006	30Aug2001:16:30:00	6.5	78	682.39		
SEAARC1006	30Aug2001:16:30:00	7.0	84	681.89	2337	
SEAARC1006	30Aug2001:16:30:00	7.5	90	681.39		
SEAARC1006	30Aug2001:16:30:00	8.0	96	680.89		
SEAARC1006	30Aug2001:16:30:00	8.5	102	680.39		
SEAARC1006	30Aug2001:16:30:00	9.0	108	679.89	3234	
SEAARC1006	30Aug2001:16:30:00	9.5	114	679.39		
SEAARC1006	30Aug2001:16:30:00	10.0	120	678.89		
SEAARC1006	30Aug2001:16:30:00	10.5	126	678.39		
SEAARC1006	30Aug2001:16:30:00	11.0	132	677.89	3713	
SEAARC1006	30Aug2001:16:30:00	11.5	138	677.39		
SEAARC1006	30Aug2001:16:30:00	12.0	144	676.89		
SEAARC1006	30Aug2001:16:30:00	12.5	150	676.39		
SEAARC1006	30Aug2001:16:30:00	13.0	156	675.89	2914	
SEAARC1006	30Aug2001:16:30:00	13.5	162	675.39		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC1006	30Aug2001:16:30:00	14.0	168	674.89		
SEAARC1006	30Aug2001:16:30:00	14.5	174	674.39		
SEAARC1006	30Aug2001:16:30:00	15.0	180	673.89	4106	4159
SEAARC1006	30Aug2001:16:30:00	15.5	186	673.39		
SEAARC1006	30Aug2001:16:30:00	16.0	192	672.89		
SEAARC1006	30Aug2001:16:30:00	16.5	198	672.39		
SEAARC1006	30Aug2001:16:30:00	17.0	204	671.89	5866	
SEAARC1006	30Aug2001:16:30:00	17.5	210	671.39		
SEAARC1006	30Aug2001:16:30:00	18.0	216	670.89		
SEAARC1006	30Aug2001:16:30:00	18.5	222	670.39		
SEAARC1006	30Aug2001:16:30:00	19.0	228	669.89	1946	
SEAARC1006	30Aug2001:16:30:00	19.5	234	669.39		
SEAARC1006	30Aug2001:16:30:00	20.0	240	668.89		
SEAARC1006	30Aug2001:16:30:00	20.5	246	668.39		
SEAARC1006	30Aug2001:16:30:00	21.0	252	667.89	6182	
SEAARC1006	30Aug2001:16:30:00	21.5	258	667.39		
SEAARC1006	30Aug2001:16:30:00	22.0	264	666.89		
SEAARC1006	30Aug2001:16:30:00	22.5	270	666.39		
SEAARC1006	30Aug2001:16:30:00	23.0	276	665.89	2957	
SEAARC1006	30Aug2001:16:30:00	23.5	282	665.39		
SEAARC1006	30Aug2001:16:30:00	24.0	288	664.89		
SEAARC1006	30Aug2001:16:30:00	24.5	294	664.39		
SEAARC1006	30Aug2001:16:30:00	25.0	300	663.89	3147	
SEAARC1006	30Aug2001:16:30:00	25.5	306	663.39		
SEAARC1006	30Aug2001:16:30:00	26.0	312	662.89		
SEAARC1006	30Aug2001:16:30:00	26.5	318	662.39		
SEAARC1006	30Aug2001:16:30:00	27.0	324	661.89	5604	
SEAARC1006	30Aug2001:16:30:00	27.5	330	661.39		
SEAARC1006	30Aug2001:16:30:00	28.0	336	660.89		
SEAARC1006	30Aug2001:16:30:00	28.5	342	660.39		
SEAARC1006	30Aug2001:16:30:00	29.0	348	659.89	1533	
SEAARC1006	30Aug2001:16:30:00	29.5	354	659.39		
SEAARC1006	30Aug2001:16:30:00	30.0	360	658.89		
SEAARC1006	30Aug2001:16:30:00	30.5	366	658.39		
SEAARC1006	30Aug2001:16:30:00	31.0	372	657.89	3592	
SEAARC1006	30Aug2001:16:30:00	31.5	378	657.39		
SEAARC1006	30Aug2001:16:30:00	32.0	384	656.89		
SEAARC1006	30Aug2001:16:30:00	32.5	390	656.39		
SEAARC1006	30Aug2001:16:30:00	33.0	396	655.89	1969	
SEAARC1006	30Aug2001:16:30:00	33.5	402	655.39		
SEAARC1006	30Aug2001:16:30:00	34.0	408	654.89		
SEAARC1006	30Aug2001:16:30:00	34.5	414	654.39		
SEAARC1006	30Aug2001:16:30:00	35.0	420	653.89	3405	3409
SEAARC1006	30Aug2001:16:30:00	35.5	426	653.39		
SEAARC1006	30Aug2001:16:30:00	36.0	432	652.89		
SEAARC1006	30Aug2001:16:30:00	36.5	438	652.39		
SEAARC1006	30Aug2001:16:30:00	37.0	444	651.89	4563	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC1006	30Aug2001:16:30:00	37.5	450	651.39		
SEAARC1006	30Aug2001:16:30:00	38.0	456	650.89		
SEAARC1006	30Aug2001:16:30:00	38.5	462	650.39		
SEAARC1006	30Aug2001:16:30:00	39.0	468	649.89	8787	
SEAARC1006	30Aug2001:16:30:00	39.5	474	649.39		
SEAARC1006	30Aug2001:16:30:00	40.0	480	648.89		
SEAARC1006	30Aug2001:16:30:00	40.5	486	648.39		
SEAARC1006	30Aug2001:16:30:00	41.0	492	647.89	4562	
SEAARC1006	30Aug2001:16:30:00	41.5	498	647.39		
SEAARC1006	30Aug2001:16:30:00	42.0	504	646.89		
SEAARC1006	30Aug2001:16:30:00	42.5	510	646.39		
SEAARC1006	30Aug2001:16:30:00	43.0	516	645.89	2458	
SEAARC1006	30Aug2001:16:30:00	43.5	522	645.39		
SEAARC1006	30Aug2001:16:30:00	44.0	528	644.89		
SEAARC1006	30Aug2001:16:30:00	44.5	534	644.39		
SEAARC1006	30Aug2001:16:30:00	45.0	540	643.89	1724	
SEAARC1006	30Aug2001:16:30:00	45.5	546	643.39		
SEAARC1006	30Aug2001:16:30:00	46.0	552	642.89		
SEAARC1006	30Aug2001:16:30:00	46.5	558	642.39		
SEAARC1006	30Aug2001:16:30:00	47.0	564	641.89	1786	
SEAARC1006	30Aug2001:16:30:00	47.5	570	641.39		
SEAARC1006	30Aug2001:16:30:00	48.0	576	640.89		
SEAARC1006	30Aug2001:16:30:00	48.5	582	640.39		
SEAARC1006	30Aug2001:16:30:00	49.0	588	639.89	3987	
SEAARC1006	30Aug2001:16:30:00	49.5	594	639.39		
SEAARC1006	30Aug2001:16:30:00	50.0	600	638.89		
SEAARC1006	30Aug2001:16:30:00	50.5	606	638.39		
SEAARC1006	30Aug2001:16:30:00	51.0	612	637.89		
SEAARC1006	30Aug2001:16:30:00	51.5	618	637.39		
SEAARC1006	30Aug2001:16:30:00	52.0	624	636.89		
SEAARC1006	30Aug2001:16:30:00	52.5	630	636.39		
SEAARC1006	30Aug2001:16:30:00	53.0	636	635.89		
SEAARC1006	30Aug2001:16:30:00	53.5	642	635.39		
SEAARC1006	30Aug2001:16:30:00	54.0	648	634.89		
SEAARC1006	30Aug2001:16:30:00	54.5	654	634.39		
SEAARC1006	30Aug2001:16:30:00	55.0	660	633.89		
SEAARC1006	30Aug2001:16:30:00	55.5	666	633.39		
SEAARC1006	30Aug2001:16:30:00	56.0	672	632.89		
SEAARC1006	30Aug2001:16:30:00	56.5	678	632.39		
SEAARC1006	30Aug2001:16:30:00	57.0	684	631.89		
SEAARC1006	30Aug2001:16:30:00	57.5	690	631.39		
SEAARC1006	30Aug2001:16:30:00	58.0	696	630.89		
SEAARC1006	30Aug2001:16:30:00	58.5	702	630.39		
SEAARC1006	30Aug2001:16:30:00	59.0	708	629.89		
SEAARC1006	30Aug2001:16:30:00	59.5	714	629.39		
SEAARC1006	18Sep2001:00:00:00	60.0	720	628.89	8689	
SEAARC1006	18Sep2001:00:00:00	60.5	726	628.39	10148	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC1006	18Sep2001:00:00:00	61.0	732	627.89	11796	
SEAARC1006	18Sep2001:00:00:00	61.5	738	627.39	17791	
SEAARC1006	18Sep2001:00:00:00	62.0	744	626.89	22361	
SEAARC1006	18Sep2001:00:00:00	62.5	750	626.39	33228	
SEAARC1006	18Sep2001:00:00:00	63.0	756	625.89	26948	
SEAARC1006	18Sep2001:00:00:00	63.5	762	625.39	16801	
SEAARC1006	18Sep2001:00:00:00	64.0	768	624.89	11634	
SEAARC1006	18Sep2001:00:00:00	64.5	774	624.39	8638	
SEAARC1006	18Sep2001:00:00:00	65.0	780	623.89	7721	
SEAARC1006	18Sep2001:00:00:00	65.5	786	623.39	6985	
SEAARC1006	18Sep2001:00:00:00	66.0	792	622.89	6106	
SEAARC1006	18Sep2001:00:00:00	66.5	798	622.39	8397	
SEAARC1006	18Sep2001:00:00:00	67.0	804	621.89	9123	
SEAARC1006	18Sep2001:00:00:00	67.5	810	621.39	7043	
SEAARC1006	18Sep2001:00:00:00	68.0	816	620.89	5370	
SEAARC1006	18Sep2001:00:00:00	68.5	822	620.39	4194	
SEAARC1006	18Sep2001:00:00:00	69.0	828	619.89	3855	
SEAARC1006	18Sep2001:00:00:00	69.5	834	619.39	4905	
SEAARC1006	18Sep2001:00:00:00	70.0	840	618.89	6559	
SEAARC1006	18Sep2001:00:00:00	70.5	846	618.39	8081	
SEAARC1006	18Sep2001:00:00:00	71.0	852	617.89	6034	
SEAARC1006	18Sep2001:00:00:00	71.5	858	617.39	4180	
SEAARC1006	18Sep2001:00:00:00	72.0	864	616.89	3251	
SEAARC1006	18Sep2001:00:00:00	72.5	870	616.39	3096	
SEAARC1006	18Sep2001:00:00:00	73.0	876	615.89	3222	
SEAARC1006	18Sep2001:00:00:00	73.5	882	615.39	3922	
SEAARC1006	18Sep2001:00:00:00	74.0	888	614.89	7143	
SEAARC1006	18Sep2001:00:00:00	74.5	894	614.39	7848	
SEAARC1006	18Sep2001:00:00:00	75.0	900	613.89	6597	
SEAARC1006	18Sep2001:00:00:00	75.5	906	613.39	7038	
SEAARC1006	18Sep2001:00:00:00	76.0	912	612.89	10325	
SEAARC1006	18Sep2001:00:00:00	76.5	918	612.39	11636	
SEAARC1006	18Sep2001:00:00:00	77.0	924	611.89	11315	
SEAARC1006	18Sep2001:00:00:00	77.5	930	611.39	10484	
SEAARC1006	18Sep2001:00:00:00	78.0	936	610.89	10306	
SEAARC1008	18Aug2001:14:35:00	0.0	0	637.57	5211	
SEAARC1008	18Aug2001:14:35:00	0.5	6	637.07	7908	
SEAARC1008	18Aug2001:14:35:00	1.0	12	636.57	9348	
SEAARC1008	18Aug2001:14:35:00	1.5	18	636.07	8602	
SEAARC1008	18Aug2001:14:35:00	2.0	24	635.57	7789	
SEAARC1008	18Aug2001:14:35:00	2.5	30	635.07	9070	
SEAARC1008	18Aug2001:14:35:00	3.0	36	634.57	17294	
SEAARC1008	18Aug2001:14:35:00	3.5	42	634.07	56716	
SEAARC1008	18Aug2001:14:35:00	4.0	48	633.57	73837	
SEAARC1008	18Aug2001:14:35:00	4.5	54	633.07	37869	
SEAARC1008	18Aug2001:14:35:00	5.0	60	632.57	16250	
SEAARC1008	18Aug2001:14:35:00	5.5	66	632.07	8117	7964

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC1008	18Aug2001:14:35:00	6.0	72	631.57	5389	
SEAARC1008	18Aug2001:14:35:00	6.5	78	631.07	6088	
SEAARC1008	18Aug2001:14:35:00	7.0	84	630.57	5329	
SEAARC1008	18Aug2001:14:35:00	7.5	90	630.07	5000	
SEAARC1008	18Aug2001:14:35:00	8.0	96	629.57	7490	
SEAARC1008	18Aug2001:14:35:00	8.5	102	629.07	6233	
SEAARC1008	18Aug2001:14:35:00	9.0	108	628.57	4410	
SEAARC1008	18Aug2001:14:35:00	9.5	114	628.07	3379	
SEAARC1008	18Aug2001:14:35:00	10.0	120	627.57	2746	2778
SEAARC1008	18Aug2001:14:35:00	10.5	126	627.07	1936	
SEAARC1008	18Aug2001:14:35:00	11.0	132	626.57	1855	
SEAARC1008	18Aug2001:14:35:00	11.5	138	626.07	1949	
SEAARC1008	18Aug2001:14:35:00	12.0	144	625.57	2080	
SEAARC1008	18Aug2001:14:35:00	12.5	150	625.07	2537	
SEAARC1008	18Aug2001:14:35:00	13.0	156	624.57	2666	
SEAARC1008	18Aug2001:14:35:00	13.5	162	624.07	2357	
SEAARC1008	18Aug2001:14:35:00	14.0	168	623.57	2882	
SEAARC1008	18Aug2001:14:35:00	14.5	174	623.07	4143	4127
SEAARC2001	27Aug2001:13:20:00	0.0	0	651.73	5939	
SEAARC2001	27Aug2001:13:20:00	0.5	6	651.23	8526	
SEAARC2001	27Aug2001:13:20:00	1.0	12	650.73	10078	
SEAARC2001	27Aug2001:13:20:00	1.5	18	650.23	9101	
SEAARC2001	27Aug2001:13:20:00	2.0	24	649.73	8114	
SEAARC2001	27Aug2001:13:20:00	2.5	30	649.23	7737	
SEAARC2001	27Aug2001:13:20:00	3.0	36	648.73	8364	
SEAARC2001	27Aug2001:13:20:00	3.5	42	648.23	8518	
SEAARC2001	27Aug2001:13:20:00	4.0	48	647.73	8036	
SEAARC2001	27Aug2001:13:20:00	4.5	54	647.23	7869	
SEAARC2001	27Aug2001:13:20:00	5.0	60	646.73	8250	8364
SEAARC2001	27Aug2001:13:20:00	5.5	66	646.23	7424	
SEAARC2001	27Aug2001:13:20:00	6.0	72	645.73	6040	
SEAARC2001	27Aug2001:13:20:00	6.5	78	645.23	5847	
SEAARC2001	27Aug2001:13:20:00	7.0	84	644.73	6684	
SEAARC2001	27Aug2001:13:20:00	7.5	90	644.23	4936	
SEAARC2001	27Aug2001:13:20:00	8.0	96	643.73	4314	
SEAARC2001	27Aug2001:13:20:00	8.5	102	643.23	4151	
SEAARC2001	27Aug2001:13:20:00	9.0	108	642.73	4531	
SEAARC2001	27Aug2001:13:20:00	9.5	114	642.23	4129	
SEAARC2001	27Aug2001:13:20:00	10.0	120	641.73	3516	3500
SEAARC2001	27Aug2001:13:20:00	10.5	126	641.23	2803	
SEAARC2001	27Aug2001:13:20:00	11.0	132	640.73	2677	
SEAARC2001	27Aug2001:13:20:00	11.5	138	640.23	3125	
SEAARC2001	27Aug2001:13:20:00	12.0	144	639.73	3918	
SEAARC2001	27Aug2001:13:20:00	12.5	150	639.23	4704	
SEAARC2001	27Aug2001:13:20:00	13.0	156	638.73	6166	
SEAARC2001	27Aug2001:13:20:00	13.5	162	638.23	7057	
SEAARC2001	27Aug2001:13:20:00	14.0	168	637.73	5079	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2001	27Aug2001:13:20:00	14.5	174	637.23	3662	
SEAARC2001	27Aug2001:13:20:00	15.0	180	636.73	2904	3024
SEAARC2001	27Aug2001:13:20:00	15.5	186	636.23	2683	
SEAARC2001	27Aug2001:13:20:00	16.0	192	635.73	2822	
SEAARC2001	27Aug2001:13:20:00	16.5	198	635.23	3213	
SEAARC2001	27Aug2001:13:20:00	17.0	204	634.73	3914	
SEAARC2001	27Aug2001:13:20:00	17.5	210	634.23	6292	
SEAARC2001	27Aug2001:13:20:00	18.0	216	633.73	10708	
SEAARC2001	27Aug2001:13:20:00	18.5	222	633.23	19834	
SEAARC2001	27Aug2001:13:20:00	19.0	228	632.73	33771	
SEAARC2001	27Aug2001:13:20:00	19.5	234	632.23	17112	
SEAARC2001	27Aug2001:13:20:00	20.0	240	631.73	15712	16041
SEAARC2001	27Aug2001:13:20:00	20.5	246	631.23	17762	
SEAARC2001	27Aug2001:13:20:00	21.0	252	630.73	9366	
SEAARC2001	27Aug2001:13:20:00	21.5	258	630.23	6723	
SEAARC2001	27Aug2001:13:20:00	22.0	264	629.73	5685	
SEAARC2001	27Aug2001:13:20:00	22.5	270	629.23	6718	
SEAARC2001	27Aug2001:13:20:00	23.0	276	628.73	5806	
SEAARC2001	27Aug2001:13:20:00	23.5	282	628.23	3995	
SEAARC2001	27Aug2001:13:20:00	24.0	288	627.73	3053	
SEAARC2001	27Aug2001:13:20:00	24.5	294	627.23	2622	
SEAARC2001	27Aug2001:13:20:00	25.0	300	626.73	2236	2113
SEAARC2001	27Aug2001:13:20:00	25.5	306	626.23	2476	
SEAARC2001	27Aug2001:13:20:00	26.0	312	625.73	3314	
SEAARC2001	27Aug2001:13:20:00	26.5	318	625.23	4078	
SEAARC2001	27Aug2001:13:20:00	27.0	324	624.73	3559	
SEAARC2001	27Aug2001:13:20:00	27.5	330	624.23	3265	
SEAARC2001	27Aug2001:13:20:00	28.0	336	623.73	3436	
SEAARC2001	27Aug2001:13:20:00	28.5	342	623.23	3544	
SEAARC2001	27Aug2001:13:20:00	29.0	348	622.73	2308	
SEAARC2001	27Aug2001:13:20:00	29.5	354	622.23	2650	
SEAARC2001	27Aug2001:13:20:00	30.0	360	621.73	2613	2601
SEAARC2001	27Aug2001:13:20:00	30.5	366	621.23	3233	
SEAARC2001	27Aug2001:13:20:00	31.0	372	620.73	2845	
SEAARC2001	27Aug2001:13:20:00	31.5	378	620.23	2337	
SEAARC2001	27Aug2001:13:20:00	32.0	384	619.73	3056	
SEAARC2001	27Aug2001:13:20:00	32.5	390	619.23	3199	
SEAARC2001	27Aug2001:13:20:00	33.0	396	618.73	4539	
SEAARC2001	27Aug2001:13:20:00	33.5	402	618.23	6731	
SEAARC2001	27Aug2001:13:20:00	34.0	408	617.73	6373	
SEAARC2001	27Aug2001:13:20:00	34.5	414	617.23	5454	5453
SEAARC2002	27Aug2001:15:45:00	0.0	0	659.96	5258	
SEAARC2002	27Aug2001:15:45:00	0.5	6	659.46	7635	
SEAARC2002	27Aug2001:15:45:00	1.0	12	658.96	9145	
SEAARC2002	27Aug2001:15:45:00	1.5	18	658.46	9459	
SEAARC2002	27Aug2001:15:45:00	2.0	24	657.96	8731	
SEAARC2002	27Aug2001:15:45:00	2.5	30	657.46	7730	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2002	27Aug2001:15:45:00	3.0	36	656.96	8383	
SEAARC2002	27Aug2001:15:45:00	3.5	42	656.46	8754	
SEAARC2002	27Aug2001:15:45:00	4.0	48	655.96	8355	
SEAARC2002	27Aug2001:15:45:00	4.5	54	655.46	8817	
SEAARC2002	27Aug2001:15:45:00	5.0	60	654.96	9124	8809
SEAARC2002	27Aug2001:15:45:00	5.5	66	654.46	8964	
SEAARC2002	27Aug2001:15:45:00	6.0	72	653.96	9188	
SEAARC2002	27Aug2001:15:45:00	6.5	78	653.46	9230	
SEAARC2002	27Aug2001:15:45:00	7.0	84	652.96	9221	
SEAARC2002	27Aug2001:15:45:00	7.5	90	652.46	9218	
SEAARC2002	27Aug2001:15:45:00	8.0	96	651.96	9401	
SEAARC2002	27Aug2001:15:45:00	8.5	102	651.46	9917	
SEAARC2002	27Aug2001:15:45:00	9.0	108	650.96	10265	
SEAARC2002	27Aug2001:15:45:00	9.5	114	650.46	9841	
SEAARC2002	27Aug2001:15:45:00	10.0	120	649.96	9878	9816
SEAARC2002	27Aug2001:15:45:00	10.5	126	649.46	9307	
SEAARC2002	27Aug2001:15:45:00	11.0	132	648.96	7695	
SEAARC2002	27Aug2001:15:45:00	11.5	138	648.46	6138	
SEAARC2002	27Aug2001:15:45:00	12.0	144	647.96	4481	
SEAARC2002	27Aug2001:15:45:00	12.5	150	647.46	4208	
SEAARC2002	27Aug2001:15:45:00	13.0	156	646.96	3558	
SEAARC2002	27Aug2001:15:45:00	13.5	162	646.46	2852	
SEAARC2002	27Aug2001:15:45:00	14.0	168	645.96	3641	
SEAARC2002	27Aug2001:15:45:00	14.5	174	645.46	7806	
SEAARC2002	27Aug2001:15:45:00	15.0	180	644.96	8627	8720
SEAARC2002	27Aug2001:15:45:00	15.5	186	644.46	10974	
SEAARC2002	27Aug2001:15:45:00	16.0	192	643.96	7606	
SEAARC2002	27Aug2001:15:45:00	16.5	198	643.46	5996	
SEAARC2002	27Aug2001:15:45:00	17.0	204	642.96	5008	
SEAARC2002	27Aug2001:15:45:00	17.5	210	642.46	4544	
SEAARC2002	27Aug2001:15:45:00	18.0	216	641.96	4468	
SEAARC2002	27Aug2001:15:45:00	18.5	222	641.46	4410	
SEAARC2002	27Aug2001:15:45:00	19.0	228	640.96	4435	
SEAARC2002	27Aug2001:15:45:00	19.5	234	640.46	4116	
SEAARC2002	27Aug2001:15:45:00	20.0	240	639.96	3656	3683
SEAARC2002	27Aug2001:15:45:00	20.5	246	639.46	3165	
SEAARC2002	27Aug2001:15:45:00	21.0	252	638.96	2520	
SEAARC2002	27Aug2001:15:45:00	21.5	258	638.46	1716	
SEAARC2002	27Aug2001:15:45:00	22.0	264	637.96	1564	
SEAARC2002	27Aug2001:15:45:00	22.5	270	637.46	1627	
SEAARC2002	27Aug2001:15:45:00	23.0	276	636.96	1623	
SEAARC2002	27Aug2001:15:45:00	23.5	282	636.46	1549	
SEAARC2002	27Aug2001:15:45:00	24.0	288	635.96	1863	
SEAARC2002	27Aug2001:15:45:00	24.5	294	635.46	2618	
SEAARC2002	27Aug2001:15:45:00	25.0	300	634.96	5021	4979
SEAARC2002	27Aug2001:15:45:00	25.5	306	634.46	6247	
SEAARC2002	27Aug2001:15:45:00	26.0	312	633.96	6461	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2002	27Aug2001:15:45:00	26.5	318	633.46	7397	
SEAARC2002	27Aug2001:15:45:00	27.0	324	632.96	8323	
SEAARC2002	27Aug2001:15:45:00	27.5	330	632.46	10367	
SEAARC2002	27Aug2001:15:45:00	28.0	336	631.96	19820	
SEAARC2002	27Aug2001:15:45:00	28.5	342	631.46	37891	
SEAARC2002	27Aug2001:15:45:00	29.0	348	630.96	48080	
SEAARC2002	27Aug2001:15:45:00	29.5	354	630.46	29177	
SEAARC2002	27Aug2001:15:45:00	30.0	360	629.96	14350	14404
SEAARC2002	27Aug2001:15:45:00	30.5	366	629.46	7400	
SEAARC2002	27Aug2001:15:45:00	31.0	372	628.96	5480	
SEAARC2002	27Aug2001:15:45:00	31.5	378	628.46	5838	
SEAARC2002	27Aug2001:15:45:00	32.0	384	627.96	4574	
SEAARC2002	27Aug2001:15:45:00	32.5	390	627.46	3525	
SEAARC2002	27Aug2001:15:45:00	33.0	396	626.96	3372	
SEAARC2002	27Aug2001:15:45:00	33.5	402	626.46	2891	
SEAARC2002	27Aug2001:15:45:00	34.0	408	625.96	3503	
SEAARC2002	27Aug2001:15:45:00	34.5	414	625.46	4400	
SEAARC2002	27Aug2001:15:45:00	35.0	420	624.96	3802	3688
SEAARC2002	27Aug2001:15:45:00	35.5	426	624.46	2967	
SEAARC2002	27Aug2001:15:45:00	36.0	432	623.96	2326	
SEAARC2002	27Aug2001:15:45:00	36.5	438	623.46	2150	2103
SEAARC2003	28Aug2001:11:15:00	0.0	0	663.42	4985	
SEAARC2003	28Aug2001:11:15:00	0.5	6	662.92	6422	
SEAARC2003	28Aug2001:11:15:00	1.0	12	662.42	7549	
SEAARC2003	28Aug2001:11:15:00	1.5	18	661.92	7594	
SEAARC2003	28Aug2001:11:15:00	2.0	24	661.42	7265	
SEAARC2003	28Aug2001:11:15:00	2.5	30	660.92	6798	
SEAARC2003	28Aug2001:11:15:00	3.0	36	660.42	6053	
SEAARC2003	28Aug2001:11:15:00	3.5	42	659.92	6349	
SEAARC2003	28Aug2001:11:15:00	4.0	48	659.42	6968	
SEAARC2003	28Aug2001:11:15:00	4.5	54	658.92	6860	
SEAARC2003	28Aug2001:11:15:00	5.0	60	658.42	7536	7730
SEAARC2003	28Aug2001:11:15:00	5.5	66	657.92	7999	
SEAARC2003	28Aug2001:11:15:00	6.0	72	657.42	8085	
SEAARC2003	28Aug2001:11:15:00	6.5	78	656.92	9040	
SEAARC2003	28Aug2001:11:15:00	7.0	84	656.42	8926	
SEAARC2003	28Aug2001:11:15:00	7.5	90	655.92	8840	
SEAARC2003	28Aug2001:11:15:00	8.0	96	655.42	9065	
SEAARC2003	28Aug2001:11:15:00	8.5	102	654.92	8716	
SEAARC2003	28Aug2001:11:15:00	9.0	108	654.42	8090	
SEAARC2003	28Aug2001:11:15:00	9.5	114	653.92	7118	
SEAARC2003	28Aug2001:11:15:00	10.0	120	653.42	7667	7888
SEAARC2003	28Aug2001:11:15:00	10.5	126	652.92	9207	
SEAARC2003	28Aug2001:11:15:00	11.0	132	652.42	9921	
SEAARC2003	28Aug2001:11:15:00	11.5	138	651.92	10575	
SEAARC2003	28Aug2001:11:15:00	12.0	144	651.42	9459	
SEAARC2003	28Aug2001:11:15:00	12.5	150	650.92	8693	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2003	28Aug2001:11:15:00	13.0	156	650.42	7273	
SEAARC2003	28Aug2001:11:15:00	13.5	162	649.92	6441	
SEAARC2003	28Aug2001:11:15:00	14.0	168	649.42	5583	
SEAARC2003	28Aug2001:11:15:00	14.5	174	648.92	4277	
SEAARC2003	28Aug2001:11:15:00	15.0	180	648.42	3793	3754
SEAARC2003	28Aug2001:11:15:00	15.5	186	647.92	3707	
SEAARC2003	28Aug2001:11:15:00	16.0	192	647.42	4191	
SEAARC2003	28Aug2001:11:15:00	16.5	198	646.92	4243	
SEAARC2003	28Aug2001:11:15:00	17.0	204	646.42	6047	
SEAARC2003	28Aug2001:11:15:00	17.5	210	645.92	8375	
SEAARC2003	28Aug2001:11:15:00	18.0	216	645.42	8868	
SEAARC2003	28Aug2001:11:15:00	18.5	222	644.92	7587	7782
SEAARC2003	28Aug2001:11:15:00	19.0	228	644.42		
SEAARC2003	28Aug2001:11:15:00	19.5	234	643.92	6965	
SEAARC2003	28Aug2001:11:15:00	20.0	240	643.42	7117	
SEAARC2003	28Aug2001:11:15:00	20.5	246	642.92	10786	
SEAARC2003	28Aug2001:11:15:00	21.0	252	642.42	13817	13967
SEAARC2003	28Aug2001:11:15:00	21.5	258	641.92	9051	
SEAARC2003	28Aug2001:11:15:00	22.0	264	641.42	8786	
SEAARC2003	28Aug2001:11:15:00	22.5	270	640.92	4850	
SEAARC2003	28Aug2001:11:15:00	23.0	276	640.42	4243	
SEAARC2003	28Aug2001:11:15:00	23.5	282	639.92		
SEAARC2003	28Aug2001:11:15:00	24.0	288	639.42		
SEAARC2003	28Aug2001:11:15:00	24.5	294	638.92		
SEAARC2003	28Aug2001:11:15:00	25.0	300	638.42	1414	
SEAARC2003	28Aug2001:11:15:00	25.5	306	637.92		
SEAARC2003	28Aug2001:11:15:00	26.0	312	637.42		
SEAARC2003	28Aug2001:11:15:00	26.5	318	636.92		
SEAARC2003	28Aug2001:11:15:00	27.0	324	636.42	3556	
SEAARC2003	28Aug2001:11:15:00	27.5	330	635.92	5119	
SEAARC2003	28Aug2001:11:15:00	28.0	336	635.42	4975	
SEAARC2003	28Aug2001:11:15:00	28.5	342	634.92	4709	
SEAARC2003	28Aug2001:11:15:00	29.0	348	634.42	5984	
SEAARC2003	28Aug2001:11:15:00	29.5	354	633.92	7422	
SEAARC2003	28Aug2001:11:15:00	30.0	360	633.42	6960	7169
SEAARC2003	28Aug2001:11:15:00	30.5	366	632.92	7210	
SEAARC2003	28Aug2001:11:15:00	31.0	372	632.42	7411	
SEAARC2003	28Aug2001:11:15:00	31.5	378	631.92	8484	
SEAARC2003	28Aug2001:11:15:00	32.0	384	631.42	11788	
SEAARC2003	28Aug2001:11:15:00	32.5	390	630.92	9558	
SEAARC2003	28Aug2001:11:15:00	33.0	396	630.42	7448	
SEAARC2003	28Aug2001:11:15:00	33.5	402	629.92	7259	
SEAARC2003	28Aug2001:11:15:00	34.0	408	629.42	8802	
SEAARC2003	28Aug2001:11:15:00	34.5	414	628.92	9107	8904
SEAARC2003	28Aug2001:11:15:00	35.0	420	628.42	5068	
SEAARC2003	28Aug2001:11:15:00	35.5	426	627.92	3053	
SEAARC2003	28Aug2001:11:15:00	36.0	432	627.42	2857	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2003	28Aug2001:11:15:00	36.5	438	626.92	3233	
SEAARC2003	28Aug2001:11:15:00	37.0	444	626.42	3705	
SEAARC2003	28Aug2001:11:15:00	37.5	450	625.92	4370	
SEAARC2003	28Aug2001:11:15:00	38.0	456	625.42	4625	
SEAARC2003	28Aug2001:11:15:00	38.5	462	624.92	4431	
SEAARC2003	28Aug2001:11:15:00	39.0	468	624.42	4277	
SEAARC2003	28Aug2001:11:15:00	39.5	474	623.92	3023	
SEAARC2003	28Aug2001:11:15:00	40.0	480	623.42	1885	1936
SEAARC2003	28Aug2001:11:15:00	40.5	486	622.92	1792	
SEAARC2003	28Aug2001:11:15:00	41.0	492	622.42	1760	
SEAARC2003	28Aug2001:11:15:00	41.5	498	621.92	2124	
SEAARC2004	28Aug2001:15:45:00	0.0	0	656.84	5623	
SEAARC2004	28Aug2001:15:45:00	0.5	6	656.34		
SEAARC2004	28Aug2001:15:45:00	1.0	12	655.84	10179	
SEAARC2004	28Aug2001:15:45:00	1.5	18	655.34		
SEAARC2004	28Aug2001:15:45:00	2.0	24	654.84	9743	9811
SEAARC2004	28Aug2001:15:45:00	2.5	30	654.34	10399	
SEAARC2004	28Aug2001:15:45:00	3.0	36	653.84	11879	
SEAARC2004	28Aug2001:15:45:00	3.5	42	653.34	12797	
SEAARC2004	28Aug2001:15:45:00	4.0	48	652.84	11586	
SEAARC2004	28Aug2001:15:45:00	4.5	54	652.34	10403	
SEAARC2004	28Aug2001:15:45:00	5.0	60	651.84		
SEAARC2004	28Aug2001:15:45:00	5.5	66	651.34	9689	
SEAARC2004	28Aug2001:15:45:00	6.0	72	650.84	9711	
SEAARC2004	28Aug2001:15:45:00	6.5	78	650.34	9108	
SEAARC2004	28Aug2001:15:45:00	7.0	84	649.84		
SEAARC2004	28Aug2001:15:45:00	7.5	90	649.34		
SEAARC2004	28Aug2001:15:45:00	8.0	96	648.84	5253	
SEAARC2004	28Aug2001:15:45:00	8.5	102	648.34		
SEAARC2004	28Aug2001:15:45:00	9.0	108	647.84		
SEAARC2004	28Aug2001:15:45:00	9.5	114	647.34		
SEAARC2004	28Aug2001:15:45:00	10.0	120	646.84	7260	7348
SEAARC2004	28Aug2001:15:45:00	10.5	126	646.34		
SEAARC2004	28Aug2001:15:45:00	11.0	132	645.84		
SEAARC2004	28Aug2001:15:45:00	11.5	138	645.34		
SEAARC2004	28Aug2001:15:45:00	12.0	144	644.84	7479	
SEAARC2004	28Aug2001:15:45:00	12.5	150	644.34		
SEAARC2004	28Aug2001:15:45:00	13.0	156	643.84		
SEAARC2004	28Aug2001:15:45:00	13.5	162	643.34		
SEAARC2004	28Aug2001:15:45:00	14.0	168	642.84	2019	
SEAARC2004	28Aug2001:15:45:00	14.5	174	642.34		
SEAARC2004	28Aug2001:15:45:00	15.0	180	641.84		
SEAARC2004	28Aug2001:15:45:00	15.5	186	641.34		
SEAARC2004	28Aug2001:15:45:00	16.0	192	640.84	1985	
SEAARC2004	28Aug2001:15:45:00	16.5	198	640.34		
SEAARC2004	28Aug2001:15:45:00	17.0	204	639.84		
SEAARC2004	28Aug2001:15:45:00	17.5	210	639.34		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2004	28Aug2001:15:45:00	18.0	216	638.84	2292	
SEAARC2004	28Aug2001:15:45:00	18.5	222	638.34		
SEAARC2004	28Aug2001:15:45:00	19.0	228	637.84		
SEAARC2004	28Aug2001:15:45:00	19.5	234	637.34		
SEAARC2004	28Aug2001:15:45:00	20.0	240	636.84	4580	4588
SEAARC2004	28Aug2001:15:45:00	20.5	246	636.34	6799	
SEAARC2004	28Aug2001:15:45:00	21.0	252	635.84	10123	
SEAARC2004	28Aug2001:15:45:00	21.5	258	635.34	11968	
SEAARC2004	28Aug2001:15:45:00	22.0	264	634.84	17830	
SEAARC2004	28Aug2001:15:45:00	22.5	270	634.34	29368	
SEAARC2004	28Aug2001:15:45:00	23.0	276	633.84	32941	
SEAARC2004	28Aug2001:15:45:00	23.5	282	633.34	20507	
SEAARC2004	28Aug2001:15:45:00	24.0	288	632.84	16446	
SEAARC2004	28Aug2001:15:45:00	24.5	294	632.34	19711	
SEAARC2004	28Aug2001:15:45:00	25.0	300	631.84	24168	24529
SEAARC2004	28Aug2001:15:45:00	25.5	306	631.34	16899	
SEAARC2004	28Aug2001:15:45:00	26.0	312	630.84	7899	
SEAARC2004	28Aug2001:15:45:00	26.5	318	630.34	5050	
SEAARC2004	28Aug2001:15:45:00	27.0	324	629.84	5454	
SEAARC2004	28Aug2001:15:45:00	27.5	330	629.34	7393	
SEAARC2004	28Aug2001:15:45:00	28.0	336	628.84	5815	
SEAARC2004	28Aug2001:15:45:00	28.5	342	628.34	3770	
SEAARC2004	28Aug2001:15:45:00	29.0	348	627.84	3408	
SEAARC2004	28Aug2001:15:45:00	29.5	354	627.34	3755	
SEAARC2004	28Aug2001:15:45:00	30.0	360	626.84	4040	4091
SEAARC2004	28Aug2001:15:45:00	30.5	366	626.34	3478	
SEAARC2004	28Aug2001:15:45:00	31.0	372	625.84	3539	
SEAARC2004	28Aug2001:15:45:00	31.5	378	625.34	4328	
SEAARC2004	28Aug2001:15:45:00	32.0	384	624.84	4482	
SEAARC2004	28Aug2001:15:45:00	32.5	390	624.34	5499	
SEAARC2004	28Aug2001:15:45:00	33.0	396	623.84	5886	
SEAARC2004	28Aug2001:15:45:00	33.5	402	623.34	4853	
SEAARC2004	28Aug2001:15:45:00	34.0	408	622.84	3610	
SEAARC2004	28Aug2001:15:45:00	34.5	414	622.34	4004	
SEAARC2004	28Aug2001:15:45:00	35.0	420	621.84	4769	
SEAARC2004	28Aug2001:15:45:00	35.5	426	621.34	3013	
SEAARC2004	28Aug2001:15:45:00	36.0	432	620.84	3163	
SEAARC2005	28Aug2001:18:15:00	0.0	0	659.91	5604	
SEAARC2005	28Aug2001:18:15:00	0.5	6	659.41	7708	
SEAARC2005	28Aug2001:18:15:00	1.0	12	658.91	9320	
SEAARC2005	28Aug2001:18:15:00	1.5	18	658.41		
SEAARC2005	28Aug2001:18:15:00	2.0	24	657.91	9298	
SEAARC2005	28Aug2001:18:15:00	2.5	30	657.41		
SEAARC2005	28Aug2001:18:15:00	3.0	36	656.91		
SEAARC2005	28Aug2001:18:15:00	3.5	42	656.41		
SEAARC2005	28Aug2001:18:15:00	4.0	48	655.91	10503	
SEAARC2005	28Aug2001:18:15:00	4.5	54	655.41		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2005	28Aug2001:18:15:00	5.0	60	654.91		
SEAARC2005	28Aug2001:18:15:00	5.5	66	654.41		
SEAARC2005	28Aug2001:18:15:00	6.0	72	653.91	9488	
SEAARC2005	28Aug2001:18:15:00	6.5	78	653.41		
SEAARC2005	28Aug2001:18:15:00	7.0	84	652.91		
SEAARC2005	28Aug2001:18:15:00	7.5	90	652.41		
SEAARC2005	28Aug2001:18:15:00	8.0	96	651.91	6501	
SEAARC2005	28Aug2001:18:15:00	8.5	102	651.41		
SEAARC2005	28Aug2001:18:15:00	9.0	108	650.91		
SEAARC2005	28Aug2001:18:15:00	9.5	114	650.41		
SEAARC2005	28Aug2001:18:15:00	10.0	120	649.91	4792	
SEAARC2005	28Aug2001:18:15:00	10.5	126	649.41		
SEAARC2005	28Aug2001:18:15:00	11.0	132	648.91		
SEAARC2005	28Aug2001:18:15:00	11.5	138	648.41		
SEAARC2005	28Aug2001:18:15:00	12.0	144	647.91	2386	
SEAARC2005	28Aug2001:18:15:00	12.5	150	647.41		
SEAARC2005	28Aug2001:18:15:00	13.0	156	646.91		
SEAARC2005	28Aug2001:18:15:00	13.5	162	646.41		
SEAARC2005	28Aug2001:18:15:00	14.0	168	645.91	5168	5154
SEAARC2005	28Aug2001:18:15:00	14.5	174	645.41		
SEAARC2005	28Aug2001:18:15:00	15.0	180	644.91		
SEAARC2005	28Aug2001:18:15:00	15.5	186	644.41		
SEAARC2005	28Aug2001:18:15:00	16.0	192	643.91	3863	
SEAARC2005	28Aug2001:18:15:00	16.5	198	643.41		
SEAARC2005	28Aug2001:18:15:00	17.0	204	642.91		
SEAARC2005	28Aug2001:18:15:00	17.5	210	642.41		
SEAARC2005	28Aug2001:18:15:00	18.0	216	641.91	1892	
SEAARC2005	28Aug2001:18:15:00	18.5	222	641.41		
SEAARC2005	28Aug2001:18:15:00	19.0	228	640.91		
SEAARC2005	28Aug2001:18:15:00	19.5	234	640.41		
SEAARC2005	28Aug2001:18:15:00	20.0	240	639.91	1431	
SEAARC2005	28Aug2001:18:15:00	20.5	246	639.41		
SEAARC2005	28Aug2001:18:15:00	21.0	252	638.91		
SEAARC2005	28Aug2001:18:15:00	21.5	258	638.41		
SEAARC2005	28Aug2001:18:15:00	22.0	264	637.91	3418	
SEAARC2005	28Aug2001:18:15:00	22.5	270	637.41		
SEAARC2005	28Aug2001:18:15:00	23.0	276	636.91		
SEAARC2005	28Aug2001:18:15:00	23.5	282	636.41	9245	
SEAARC2005	28Aug2001:18:15:00	24.0	288	635.91	10181	
SEAARC2005	28Aug2001:18:15:00	24.5	294	635.41	416	
SEAARC2005	28Aug2001:18:15:00	25.0	300	634.91	4154	4176
SEAARC2005	28Aug2001:18:15:00	25.5	306	634.41	11406	
SEAARC2005	28Aug2001:18:15:00	26.0	312	633.91	17776	
SEAARC2005	28Aug2001:18:15:00	26.5	318	633.41	38853	
SEAARC2005	28Aug2001:18:15:00	27.0	324	632.91	78344	
SEAARC2005	28Aug2001:18:15:00	27.5	330	632.41	59766	
SEAARC2005	28Aug2001:18:15:00	28.0	336	631.91	34329	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2005	28Aug2001:18:15:00	28.5	342	631.41	30393	
SEAARC2005	28Aug2001:18:15:00	29.0	348	630.91	15902	
SEAARC2005	28Aug2001:18:15:00	29.5	354	630.41	7057	
SEAARC2005	28Aug2001:18:15:00	30.0	360	629.91	5305	5346
SEAARC2005	28Aug2001:18:15:00	30.5	366	629.41	6030	
SEAARC2005	28Aug2001:18:15:00	31.0	372	628.91	6582	
SEAARC2005	28Aug2001:18:15:00	31.5	378	628.41	5039	
SEAARC2005	28Aug2001:18:15:00	32.0	384	627.91	4118	
SEAARC2005	28Aug2001:18:15:00	32.5	390	627.41	3345	
SEAARC2005	28Aug2001:18:15:00	33.0	396	626.91	2996	
SEAARC2005	28Aug2001:18:15:00	33.5	402	626.41	3418	
SEAARC2005	28Aug2001:18:15:00	34.0	408	625.91	4539	
SEAARC2005	28Aug2001:18:15:00	34.5	414	625.41	6122	
SEAARC2005	28Aug2001:18:15:00	35.0	420	624.91	7334	7323
SEAARC2005	28Aug2001:18:15:00	35.5	426	624.41	7157	
SEAARC2005	28Aug2001:18:15:00	36.0	432	623.91	6671	
SEAARC2005	28Aug2001:18:15:00	36.5	438	623.41	5924	
SEAARC2005	28Aug2001:18:15:00	37.0	444	622.91	4603	
SEAARC2005	28Aug2001:18:15:00	37.5	450	622.41	3307	
SEAARC2005	28Aug2001:18:15:00	38.0	456	621.91	2989	
SEAARC2005	28Aug2001:18:15:00	38.5	462	621.41	3298	
SEAARC2005	28Aug2001:18:15:00	39.0	468	620.91	4237	
SEAARC2005	28Aug2001:18:15:00	39.5	474	620.41	5417	
SEAARC2005	28Aug2001:18:15:00	40.0	480	619.91	4918	4775
SEAARC2006	29Aug2001:08:20:00	0.0	0	659.90	5731	
SEAARC2006	29Aug2001:08:20:00	0.5	6	659.40	7735	
SEAARC2006	29Aug2001:08:20:00	1.0	12	658.90	9415	
SEAARC2006	29Aug2001:08:20:00	1.5	18	658.40		
SEAARC2006	29Aug2001:08:20:00	2.0	24	657.90		
SEAARC2006	29Aug2001:08:20:00	2.5	30	657.40		
SEAARC2006	29Aug2001:08:20:00	3.0	36	656.90	10340	
SEAARC2006	29Aug2001:08:20:00	3.5	42	656.40		
SEAARC2006	29Aug2001:08:20:00	4.0	48	655.90		
SEAARC2006	29Aug2001:08:20:00	4.5	54	655.40		
SEAARC2006	29Aug2001:08:20:00	5.0	60	654.90	7812	
SEAARC2006	29Aug2001:08:20:00	5.5	66	654.40		
SEAARC2006	29Aug2001:08:20:00	6.0	72	653.90		
SEAARC2006	29Aug2001:08:20:00	6.5	78	653.40		
SEAARC2006	29Aug2001:08:20:00	7.0	84	652.90	6482	
SEAARC2006	29Aug2001:08:20:00	7.5	90	652.40		
SEAARC2006	29Aug2001:08:20:00	8.0	96	651.90		
SEAARC2006	29Aug2001:08:20:00	8.5	102	651.40		
SEAARC2006	29Aug2001:08:20:00	9.0	108	650.90	2882	
SEAARC2006	29Aug2001:08:20:00	9.5	114	650.40		
SEAARC2006	29Aug2001:08:20:00	10.0	120	649.90		
SEAARC2006	29Aug2001:08:20:00	10.5	126	649.40		
SEAARC2006	29Aug2001:08:20:00	11.0	132	648.90	2149	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2006	29Aug2001:08:20:00	11.5	138	648.40		
SEAARC2006	29Aug2001:08:20:00	12.0	144	647.90		
SEAARC2006	29Aug2001:08:20:00	12.5	150	647.40		
SEAARC2006	29Aug2001:08:20:00	13.0	156	646.90	2969	
SEAARC2006	29Aug2001:08:20:00	13.5	162	646.40		
SEAARC2006	29Aug2001:08:20:00	14.0	168	645.90		
SEAARC2006	29Aug2001:08:20:00	14.5	174	645.40		
SEAARC2006	29Aug2001:08:20:00	15.0	180	644.90	2106	2187
SEAARC2006	29Aug2001:08:20:00	15.5	186	644.40		
SEAARC2006	29Aug2001:08:20:00	16.0	192	643.90		
SEAARC2006	29Aug2001:08:20:00	16.5	198	643.40		
SEAARC2006	29Aug2001:08:20:00	17.0	204	642.90	1364	
SEAARC2006	29Aug2001:08:20:00	17.5	210	642.40		
SEAARC2006	29Aug2001:08:20:00	18.0	216	641.90		
SEAARC2006	29Aug2001:08:20:00	18.5	222	641.40		
SEAARC2006	29Aug2001:08:20:00	19.0	228	640.90	2055	
SEAARC2006	29Aug2001:08:20:00	19.5	234	640.40		
SEAARC2006	29Aug2001:08:20:00	20.0	240	639.90		
SEAARC2006	29Aug2001:08:20:00	20.5	246	639.40		
SEAARC2006	29Aug2001:08:20:00	21.0	252	638.90	3655	
SEAARC2006	29Aug2001:08:20:00	21.5	258	638.40		
SEAARC2006	29Aug2001:08:20:00	22.0	264	637.90	6809	
SEAARC2006	29Aug2001:08:20:00	22.5	270	637.40	10015	
SEAARC2006	29Aug2001:08:20:00	23.0	276	636.90	22212	
SEAARC2006	29Aug2001:08:20:00	23.5	282	636.40	53432	
SEAARC2006	29Aug2001:08:20:00	24.0	288	635.90	49854	
SEAARC2006	29Aug2001:08:20:00	24.5	294	635.40	20269	
SEAARC2006	29Aug2001:08:20:00	25.0	300	634.90	12500	12405
SEAARC2006	29Aug2001:08:20:00	25.5	306	634.40	12740	
SEAARC2006	29Aug2001:08:20:00	26.0	312	633.90	15604	
SEAARC2006	29Aug2001:08:20:00	26.5	318	633.40	13649	
SEAARC2006	29Aug2001:08:20:00	27.0	324	632.90	8843	
SEAARC2006	29Aug2001:08:20:00	27.5	330	632.40	7396	7423
SEAARC2006	29Aug2001:08:20:00	28.0	336	631.90	5896	
SEAARC2006	29Aug2001:08:20:00	28.5	342	631.40	3901	
SEAARC2006	29Aug2001:08:20:00	29.0	348	630.90	3705	
SEAARC2006	29Aug2001:08:20:00	29.5	354	630.40	4925	
SEAARC2006	29Aug2001:08:20:00	30.0	360	629.90	6998	7073
SEAARC2006	29Aug2001:08:20:00	30.5	366	629.40	7996	
SEAARC2006	29Aug2001:08:20:00	31.0	372	628.90	6924	
SEAARC2006	29Aug2001:08:20:00	31.5	378	628.40	9019	
SEAARC2006	29Aug2001:08:20:00	32.0	384	627.90	8394	
SEAARC2006	29Aug2001:08:20:00	32.5	390	627.40	6028	
SEAARC2006	29Aug2001:08:20:00	33.0	396	626.90	5565	
SEAARC2006	29Aug2001:08:20:00	33.5	402	626.40	4832	
SEAARC2006	29Aug2001:08:20:00	34.0	408	625.90	4773	
SEAARC2006	29Aug2001:08:20:00	34.5	414	625.40	4604	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2006	29Aug2001:08:20:00	35.0	420	624.90	3819	3926
SEAARC2006	29Aug2001:08:20:00	35.5	426	624.40	4348	
SEAARC2006	29Aug2001:08:20:00	36.0	432	623.90	3768	
SEAARC2006	29Aug2001:08:20:00	36.5	438	623.40	3457	
SEAARC2006	29Aug2001:08:20:00	37.0	444	622.90	2601	
SEAARC2006	29Aug2001:08:20:00	37.5	450	622.40	2365	
SEAARC2006	29Aug2001:08:20:00	38.0	456	621.90	2943	
SEAARC2006	29Aug2001:08:20:00	38.5	462	621.40	3471	
SEAARC2006	29Aug2001:08:20:00	39.0	468	620.90	3987	
SEAARC2006	29Aug2001:08:20:00	39.5	474	620.40	4090	
SEAARC2006	29Aug2001:08:20:00	40.0	480	619.90	4482	4597
SEAARC2006	29Aug2001:08:20:00	40.5	486	619.40	5095	
SEAARC2006	29Aug2001:08:20:00	41.0	492	618.90	5332	
SEAARC2006	29Aug2001:08:20:00	41.5	498	618.40	5834	
SEAARC2006	29Aug2001:08:20:00	42.0	504	617.90	6419	6258
SEAARC2007	29Aug2001:10:15:00	0.0	0	658.49	5419	
SEAARC2007	29Aug2001:10:15:00	0.5	6	657.99	6226	
SEAARC2007	29Aug2001:10:15:00	1.0	12	657.49	7157	
SEAARC2007	29Aug2001:10:15:00	1.5	18	656.99		
SEAARC2007	29Aug2001:10:15:00	2.0	24	656.49		
SEAARC2007	29Aug2001:10:15:00	2.5	30	655.99		
SEAARC2007	29Aug2001:10:15:00	3.0	36	655.49	8586	
SEAARC2007	29Aug2001:10:15:00	3.5	42	654.99		
SEAARC2007	29Aug2001:10:15:00	4.0	48	654.49		
SEAARC2007	29Aug2001:10:15:00	4.5	54	653.99		
SEAARC2007	29Aug2001:10:15:00	5.0	60	653.49	4601	
SEAARC2007	29Aug2001:10:15:00	5.5	66	652.99		
SEAARC2007	29Aug2001:10:15:00	6.0	72	652.49		
SEAARC2007	29Aug2001:10:15:00	6.5	78	651.99		
SEAARC2007	29Aug2001:10:15:00	7.0	84	651.49	3351	
SEAARC2007	29Aug2001:10:15:00	7.5	90	650.99		
SEAARC2007	29Aug2001:10:15:00	8.0	96	650.49		
SEAARC2007	29Aug2001:10:15:00	8.5	102	649.99		
SEAARC2007	29Aug2001:10:15:00	9.0	108	649.49	3208	
SEAARC2007	29Aug2001:10:15:00	9.5	114	648.99		
SEAARC2007	29Aug2001:10:15:00	10.0	120	648.49		
SEAARC2007	29Aug2001:10:15:00	10.5	126	647.99		
SEAARC2007	29Aug2001:10:15:00	11.0	132	647.49	5928	
SEAARC2007	29Aug2001:10:15:00	11.5	138	646.99		
SEAARC2007	29Aug2001:10:15:00	12.0	144	646.49		
SEAARC2007	29Aug2001:10:15:00	12.5	150	645.99		
SEAARC2007	29Aug2001:10:15:00	13.0	156	645.49	1928	
SEAARC2007	29Aug2001:10:15:00	13.5	162	644.99		
SEAARC2007	29Aug2001:10:15:00	14.0	168	644.49		
SEAARC2007	29Aug2001:10:15:00	14.5	174	643.99		
SEAARC2007	29Aug2001:10:15:00	15.0	180	643.49	2036	1997
SEAARC2007	29Aug2001:10:15:00	15.5	186	642.99		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2007	29Aug2001:10:15:00	16.0	192	642.49		
SEAARC2007	29Aug2001:10:15:00	16.5	198	641.99		
SEAARC2007	29Aug2001:10:15:00	17.0	204	641.49	2411	
SEAARC2007	29Aug2001:10:15:00	17.5	210	640.99	4318	
SEAARC2007	29Aug2001:10:15:00	18.0	216	640.49	7642	
SEAARC2007	29Aug2001:10:15:00	18.5	222	639.99	12304	
SEAARC2007	29Aug2001:10:15:00	19.0	228	639.49	14249	
SEAARC2007	29Aug2001:10:15:00	19.5	234	638.99	16481	
SEAARC2007	29Aug2001:10:15:00	20.0	240	638.49	22881	23766
SEAARC2007	29Aug2001:10:15:00	20.5	246	637.99	27168	
SEAARC2007	29Aug2001:10:15:00	21.0	252	637.49	34134	
SEAARC2007	29Aug2001:10:15:00	21.5	258	636.99	60197	
SEAARC2007	29Aug2001:10:15:00	22.0	264	636.49	50051	
SEAARC2007	29Aug2001:10:15:00	22.5	270	635.99	30034	
SEAARC2007	29Aug2001:10:15:00	23.0	276	635.49	21669	
SEAARC2007	29Aug2001:10:15:00	23.5	282	634.99	12285	
SEAARC2007	29Aug2001:10:15:00	24.0	288	634.49	8497	
SEAARC2007	29Aug2001:10:15:00	24.5	294	633.99	7706	
SEAARC2007	29Aug2001:10:15:00	25.0	300	633.49	6732	6791
SEAARC2007	29Aug2001:10:15:00	25.5	306	632.99	5405	
SEAARC2007	29Aug2001:10:15:00	26.0	312	632.49	5234	
SEAARC2007	29Aug2001:10:15:00	26.5	318	631.99	5484	
SEAARC2007	29Aug2001:10:15:00	27.0	324	631.49	6174	
SEAARC2007	29Aug2001:10:15:00	27.5	330	630.99	5472	
SEAARC2007	29Aug2001:10:15:00	28.0	336	630.49	4313	
SEAARC2007	29Aug2001:10:15:00	28.5	342	629.99	4947	
SEAARC2007	29Aug2001:10:15:00	29.0	348	629.49	6087	
SEAARC2007	29Aug2001:10:15:00	29.5	354	628.99	5850	
SEAARC2007	29Aug2001:10:15:00	30.0	360	628.49	5424	5452
SEAARC2007	29Aug2001:10:15:00	30.5	366	627.99	4594	
SEAARC2007	29Aug2001:10:15:00	31.0	372	627.49	4468	
SEAARC2007	29Aug2001:10:15:00	31.5	378	626.99	5128	
SEAARC2007	29Aug2001:10:15:00	32.0	384	626.49	4993	
SEAARC2007	29Aug2001:10:15:00	32.5	390	625.99	4627	
SEAARC2007	29Aug2001:10:15:00	33.0	396	625.49	5000	
SEAARC2007	29Aug2001:10:15:00	33.5	402	624.99	5707	
SEAARC2007	29Aug2001:10:15:00	34.0	408	624.49	6042	
SEAARC2007	29Aug2001:10:15:00	34.5	414	623.99	4661	
SEAARC2007	29Aug2001:10:15:00	35.0	420	623.49	4671	4674
SEAARC2007	29Aug2001:10:15:00	35.5	426	622.99	4701	
SEAARC2007	29Aug2001:10:15:00	36.0	432	622.49	5569	
SEAARC2007	29Aug2001:10:15:00	36.5	438	621.99	7312	
SEAARC2007	29Aug2001:10:15:00	37.0	444	621.49	8319	
SEAARC2007	29Aug2001:10:15:00	37.5	450	620.99	6231	
SEAARC2007	29Aug2001:10:15:00	38.0	456	620.49	3869	
SEAARC2007	29Aug2001:10:15:00	38.5	462	619.99	3039	
SEAARC2007	29Aug2001:10:15:00	39.0	468	619.49	2530	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2007	29Aug2001:10:15:00	39.5	474	618.99	2474	
SEAARC2007	29Aug2001:10:15:00	40.0	480	618.49	2301	2324
SEAARC2008	01Sep2001:16:15:00	0.0	0	662.58	6891	
SEAARC2008	01Sep2001:16:15:00	0.5	6	662.08	8049	
SEAARC2008	01Sep2001:16:15:00	1.0	12	661.58	8514	
SEAARC2008	01Sep2001:16:15:00	1.5	18	661.08	8914	
SEAARC2008	01Sep2001:16:15:00	2.0	24	660.58	8987	
SEAARC2008	01Sep2001:16:15:00	2.5	30	660.08	8147	
SEAARC2008	01Sep2001:16:15:00	3.0	36	659.58	5672	
SEAARC2008	01Sep2001:16:15:00	3.5	42	659.08	4682	
SEAARC2008	01Sep2001:16:15:00	4.0	48	658.58	5197	
SEAARC2008	01Sep2001:16:15:00	4.5	54	658.08	5728	
SEAARC2008	01Sep2001:16:15:00	5.0	60	657.58	4762	4728
SEAARC2008	01Sep2001:16:15:00	5.5	66	657.08	3058	
SEAARC2008	01Sep2001:16:15:00	6.0	72	656.58	2239	
SEAARC2008	01Sep2001:16:15:00	6.5	78	656.08	2332	
SEAARC2008	01Sep2001:16:15:00	7.0	84	655.58	3024	
SEAARC2008	01Sep2001:16:15:00	7.5	90	655.08	3540	
SEAARC2008	01Sep2001:16:15:00	8.0	96	654.58	4409	
SEAARC2008	01Sep2001:16:15:00	8.5	102	654.08	4903	
SEAARC2008	01Sep2001:16:15:00	9.0	108	653.58	5324	
SEAARC2008	01Sep2001:16:15:00	9.5	114	653.08	5514	
SEAARC2008	01Sep2001:16:15:00	10.0	120	652.58	4160	4037
SEAARC2008	01Sep2001:16:15:00	10.5	126	652.08	4651	
SEAARC2008	01Sep2001:16:15:00	11.0	132	651.58	6168	
SEAARC2008	01Sep2001:16:15:00	11.5	138	651.08	5836	
SEAARC2008	01Sep2001:16:15:00	12.0	144	650.58	4547	
SEAARC2008	01Sep2001:16:15:00	12.5	150	650.08	2826	
SEAARC2008	01Sep2001:16:15:00	13.0	156	649.58	2356	
SEAARC2008	01Sep2001:16:15:00	13.5	162	649.08	2167	
SEAARC2008	01Sep2001:16:15:00	14.0	168	648.58	2486	
SEAARC2008	01Sep2001:16:15:00	14.5	174	648.08	3284	
SEAARC2008	01Sep2001:16:15:00	15.0	180	647.58	4357	4341
SEAARC2008	01Sep2001:16:15:00	15.5	186	647.08	5421	
SEAARC2008	01Sep2001:16:15:00	16.0	192	646.58	5842	
SEAARC2008	01Sep2001:16:15:00	16.5	198	646.08	6075	
SEAARC2008	01Sep2001:16:15:00	17.0	204	645.58	6818	
SEAARC2008	01Sep2001:16:15:00	17.5	210	645.08	6777	
SEAARC2008	01Sep2001:16:15:00	18.0	216	644.58	5412	
SEAARC2008	01Sep2001:16:15:00	18.5	222	644.08	4866	
SEAARC2008	01Sep2001:16:15:00	19.0	228	643.58	4453	
SEAARC2008	01Sep2001:16:15:00	19.5	234	643.08	4322	
SEAARC2008	01Sep2001:16:15:00	20.0	240	642.58	4429	4506
SEAARC2008	01Sep2001:16:15:00	20.5	246	642.08	5025	
SEAARC2008	01Sep2001:16:15:00	21.0	252	641.58	6787	
SEAARC2008	01Sep2001:16:15:00	21.5	258	641.08	9769	
SEAARC2008	01Sep2001:16:15:00	22.0	264	640.58	7076	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2008	01Sep2001:16:15:00	22.5	270	640.08	4852	
SEAARC2008	01Sep2001:16:15:00	23.0	276	639.58	4292	
SEAARC2008	01Sep2001:16:15:00	23.5	282	639.08	3729	
SEAARC2008	01Sep2001:16:15:00	24.0	288	638.58	4171	
SEAARC2008	01Sep2001:16:15:00	24.5	294	638.08	4779	
SEAARC2008	01Sep2001:16:15:00	25.0	300	637.58	4739	4647
SEAARC2008	01Sep2001:16:15:00	25.5	306	637.08	3940	
SEAARC2008	01Sep2001:16:15:00	26.0	312	636.58	3020	
SEAARC2008	01Sep2001:16:15:00	26.5	318	636.08	2785	
SEAARC2008	01Sep2001:16:15:00	27.0	324	635.58	2555	
SEAARC2008	01Sep2001:16:15:00	27.5	330	635.08	2867	
SEAARC2008	01Sep2001:16:15:00	28.0	336	634.58	3011	
SEAARC2008	01Sep2001:16:15:00	28.5	342	634.08	2827	
SEAARC2008	01Sep2001:16:15:00	29.0	348	633.58	3244	
SEAARC2008	01Sep2001:16:15:00	29.5	354	633.08	3243	
SEAARC2008	01Sep2001:16:15:00	30.0	360	632.58	4362	4472
SEAARC2008	01Sep2001:16:15:00	30.5	366	632.08	4754	
SEAARC2009	30Aug2001:10:25:00	0.0	0	665.90	6904	
SEAARC2009	30Aug2001:10:25:00	0.5	6	665.40	8709	
SEAARC2009	30Aug2001:10:25:00	1.0	12	664.90	10407	
SEAARC2009	30Aug2001:10:25:00	1.5	18	664.40		
SEAARC2009	30Aug2001:10:25:00	2.0	24	663.90		
SEAARC2009	30Aug2001:10:25:00	2.5	30	663.40		
SEAARC2009	30Aug2001:10:25:00	3.0	36	662.90	8087	
SEAARC2009	30Aug2001:10:25:00	3.5	42	662.40		
SEAARC2009	30Aug2001:10:25:00	4.0	48	661.90		
SEAARC2009	30Aug2001:10:25:00	4.5	54	661.40		
SEAARC2009	30Aug2001:10:25:00	5.0	60	660.90	7539	
SEAARC2009	30Aug2001:10:25:00	5.5	66	660.40		
SEAARC2009	30Aug2001:10:25:00	6.0	72	659.90		
SEAARC2009	30Aug2001:10:25:00	6.5	78	659.40		
SEAARC2009	30Aug2001:10:25:00	7.0	84	658.90	3874	
SEAARC2009	30Aug2001:10:25:00	7.5	90	658.40		
SEAARC2009	30Aug2001:10:25:00	8.0	96	657.90		
SEAARC2009	30Aug2001:10:25:00	8.5	102	657.40		
SEAARC2009	30Aug2001:10:25:00	9.0	108	656.90	1916	
SEAARC2009	30Aug2001:10:25:00	9.5	114	656.40		
SEAARC2009	30Aug2001:10:25:00	10.0	120	655.90		
SEAARC2009	30Aug2001:10:25:00	10.5	126	655.40		
SEAARC2009	30Aug2001:10:25:00	11.0	132	654.90	2481	
SEAARC2009	30Aug2001:10:25:00	11.5	138	654.40		
SEAARC2009	30Aug2001:10:25:00	12.0	144	653.90		
SEAARC2009	30Aug2001:10:25:00	12.5	150	653.40		
SEAARC2009	30Aug2001:10:25:00	13.0	156	652.90	6762	
SEAARC2009	30Aug2001:10:25:00	13.5	162	652.40		
SEAARC2009	30Aug2001:10:25:00	14.0	168	651.90		
SEAARC2009	30Aug2001:10:25:00	14.5	174	651.40		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2009	30Aug2001:10:25:00	15.0	180	650.90	4452	4590
SEAARC2009	30Aug2001:10:25:00	15.5	186	650.40		
SEAARC2009	30Aug2001:10:25:00	16.0	192	649.90		
SEAARC2009	30Aug2001:10:25:00	16.5	198	649.40	10737	
SEAARC2009	30Aug2001:10:25:00	17.0	204	648.90	10371	
SEAARC2009	30Aug2001:10:25:00	17.5	210	648.40		
SEAARC2009	30Aug2001:10:25:00	18.0	216	647.90		
SEAARC2009	30Aug2001:10:25:00	18.5	222	647.40		
SEAARC2009	30Aug2001:10:25:00	19.0	228	646.90	3992	
SEAARC2009	30Aug2001:10:25:00	19.5	234	646.40		
SEAARC2009	30Aug2001:10:25:00	20.0	240	645.90		
SEAARC2009	30Aug2001:10:25:00	20.5	246	645.40		
SEAARC2009	30Aug2001:10:25:00	21.0	252	644.90	6294	
SEAARC2009	30Aug2001:10:25:00	21.5	258	644.40		
SEAARC2009	30Aug2001:10:25:00	22.0	264	643.90		
SEAARC2009	30Aug2001:10:25:00	22.5	270	643.40		
SEAARC2009	30Aug2001:10:25:00	23.0	276	642.90	6046	
SEAARC2009	30Aug2001:10:25:00	23.5	282	642.40		
SEAARC2009	30Aug2001:10:25:00	24.0	288	641.90		
SEAARC2009	30Aug2001:10:25:00	24.5	294	641.40		
SEAARC2009	30Aug2001:10:25:00	25.0	300	640.90	6372	6277
SEAARC2009	30Aug2001:10:25:00	25.5	306	640.40		
SEAARC2009	30Aug2001:10:25:00	26.0	312	639.90		
SEAARC2009	30Aug2001:10:25:00	26.5	318	639.40		
SEAARC2009	30Aug2001:10:25:00	27.0	324	638.90	4841	
SEAARC2009	30Aug2001:10:25:00	27.5	330	638.40		
SEAARC2009	30Aug2001:10:25:00	28.0	336	637.90		
SEAARC2009	30Aug2001:10:25:00	28.5	342	637.40		
SEAARC2009	30Aug2001:10:25:00	29.0	348	636.90	2943	
SEAARC2009	30Aug2001:10:25:00	29.5	354	636.40		
SEAARC2009	30Aug2001:10:25:00	30.0	360	635.90	2331	
SEAARC2009	30Aug2001:10:25:00	30.5	366	635.40	2628	
SEAARC2009	30Aug2001:10:25:00	31.0	372	634.90	3349	
SEAARC2009	30Aug2001:10:25:00	31.5	378	634.40	5048	
SEAARC2009	30Aug2001:10:25:00	32.0	384	633.90	10281	
SEAARC2009	30Aug2001:10:25:00	32.5	390	633.40	16828	
SEAARC2009	30Aug2001:10:25:00	33.0	396	632.90	21151	
SEAARC2009	30Aug2001:10:25:00	33.5	402	632.40	17938	
SEAARC2009	30Aug2001:10:25:00	34.0	408	631.90	12084	
SEAARC2009	30Aug2001:10:25:00	34.5	414	631.40	9645	
SEAARC2009	30Aug2001:10:25:00	35.0	420	630.90	10266	10420
SEAARC2009	30Aug2001:10:25:00	35.5	426	630.40	14571	
SEAARC2009	30Aug2001:10:25:00	36.0	432	629.90	14293	
SEAARC2009	30Aug2001:10:25:00	36.5	438	629.40	7169	
SEAARC2009	30Aug2001:10:25:00	37.0	444	628.90	5085	
SEAARC2009	30Aug2001:10:25:00	37.5	450	628.40	4527	
SEAARC2009	30Aug2001:10:25:00	38.0	456	627.90	5102	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2009	30Aug2001:10:25:00	38.5	462	627.40	5389	
SEAARC2009	30Aug2001:10:25:00	39.0	468	626.90	5597	
SEAARC2009	30Aug2001:10:25:00	39.5	474	626.40	5771	
SEAARC2009	30Aug2001:10:25:00	40.0	480	625.90	4884	5051
SEAARC2009	30Aug2001:10:25:00	40.5	486	625.40	3592	
SEAARC2009	30Aug2001:10:25:00	41.0	492	624.90	2817	
SEAARC2009	30Aug2001:10:25:00	41.5	498	624.40	2362	
SEAARC2009	30Aug2001:10:25:00	42.0	504	623.90	3088	
SEAARC2009	30Aug2001:10:25:00	42.5	510	623.40	4117	
SEAARC2009	30Aug2001:10:25:00	43.0	516	622.90	3183	
SEAARC2009	30Aug2001:10:25:00	43.5	522	622.40	2643	
SEAARC2009	30Aug2001:10:25:00	44.0	528	621.90	2548	
SEAARC2009	30Aug2001:10:25:00	44.5	534	621.40	2420	2572
SEAARC2010	29Aug2001:16:05:00	0.0	0	666.13	5309	
SEAARC2010	29Aug2001:16:05:00	0.5	6	665.63	7968	
SEAARC2010	29Aug2001:16:05:00	1.0	12	665.13	10133	
SEAARC2010	29Aug2001:16:05:00	1.5	18	664.63		
SEAARC2010	29Aug2001:16:05:00	2.0	24	664.13		
SEAARC2010	29Aug2001:16:05:00	2.5	30	663.63		
SEAARC2010	29Aug2001:16:05:00	3.0	36	663.13	10657	
SEAARC2010	29Aug2001:16:05:00	3.5	42	662.63		
SEAARC2010	29Aug2001:16:05:00	4.0	48	662.13		
SEAARC2010	29Aug2001:16:05:00	4.5	54	661.63		
SEAARC2010	29Aug2001:16:05:00	5.0	60	661.13	8685	
SEAARC2010	29Aug2001:16:05:00	5.5	66	660.63		
SEAARC2010	29Aug2001:16:05:00	6.0	72	660.13		
SEAARC2010	29Aug2001:16:05:00	6.5	78	659.63		
SEAARC2010	29Aug2001:16:05:00	7.0	84	659.13	9012	
SEAARC2010	29Aug2001:16:05:00	7.5	90	658.63		
SEAARC2010	29Aug2001:16:05:00	8.0	96	658.13		
SEAARC2010	29Aug2001:16:05:00	8.5	102	657.63		
SEAARC2010	29Aug2001:16:05:00	9.0	108	657.13	8646	
SEAARC2010	29Aug2001:16:05:00	9.5	114	656.63		
SEAARC2010	29Aug2001:16:05:00	10.0	120	656.13		
SEAARC2010	29Aug2001:16:05:00	10.5	126	655.63		
SEAARC2010	29Aug2001:16:05:00	11.0	132	655.13	7333	
SEAARC2010	29Aug2001:16:05:00	11.5	138	654.63		
SEAARC2010	29Aug2001:16:05:00	12.0	144	654.13		
SEAARC2010	29Aug2001:16:05:00	12.5	150	653.63		
SEAARC2010	29Aug2001:16:05:00	13.0	156	653.13	6013	
SEAARC2010	29Aug2001:16:05:00	13.5	162	652.63		
SEAARC2010	29Aug2001:16:05:00	14.0	168	652.13		
SEAARC2010	29Aug2001:16:05:00	14.5	174	651.63		
SEAARC2010	29Aug2001:16:05:00	15.0	180	651.13	1957	1964
SEAARC2010	29Aug2001:16:05:00	15.5	186	650.63		
SEAARC2010	29Aug2001:16:05:00	16.0	192	650.13		
SEAARC2010	29Aug2001:16:05:00	16.5	198	649.63		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2010	29Aug2001:16:05:00	17.0	204	649.13	2683	
SEAARC2010	29Aug2001:16:05:00	17.5	210	648.63		
SEAARC2010	29Aug2001:16:05:00	18.0	216	648.13		
SEAARC2010	29Aug2001:16:05:00	18.5	222	647.63	9709	
SEAARC2010	29Aug2001:16:05:00	19.0	228	647.13	10030	
SEAARC2010	29Aug2001:16:05:00	19.5	234	646.63	8521	
SEAARC2010	29Aug2001:16:05:00	20.0	240	646.13		
SEAARC2010	29Aug2001:16:05:00	20.5	246	645.63		
SEAARC2010	29Aug2001:16:05:00	21.0	252	645.13	4104	4011
SEAARC2010	29Aug2001:16:05:00	21.5	258	644.63		
SEAARC2010	29Aug2001:16:05:00	22.0	264	644.13		
SEAARC2010	29Aug2001:16:05:00	22.5	270	643.63		
SEAARC2010	29Aug2001:16:05:00	23.0	276	643.13	5143	
SEAARC2010	29Aug2001:16:05:00	23.5	282	642.63		
SEAARC2010	29Aug2001:16:05:00	24.0	288	642.13		
SEAARC2010	29Aug2001:16:05:00	24.5	294	641.63		
SEAARC2010	29Aug2001:16:05:00	25.0	300	641.13	4836	
SEAARC2010	29Aug2001:16:05:00	25.5	306	640.63		
SEAARC2010	29Aug2001:16:05:00	26.0	312	640.13		
SEAARC2010	29Aug2001:16:05:00	26.5	318	639.63		
SEAARC2010	29Aug2001:16:05:00	27.0	324	639.13	2822	
SEAARC2010	29Aug2001:16:05:00	27.5	330	638.63		
SEAARC2010	29Aug2001:16:05:00	28.0	336	638.13		
SEAARC2010	29Aug2001:16:05:00	28.5	342	637.63		
SEAARC2010	29Aug2001:16:05:00	29.0	348	637.13	4693	
SEAARC2010	29Aug2001:16:05:00	29.5	354	636.63	7967	
SEAARC2010	29Aug2001:16:05:00	30.0	360	636.13	17725	17920
SEAARC2010	29Aug2001:16:05:00	30.5	366	635.63	25098	
SEAARC2010	29Aug2001:16:05:00	31.0	372	635.13	23171	
SEAARC2010	29Aug2001:16:05:00	31.5	378	634.63	16654	
SEAARC2010	29Aug2001:16:05:00	32.0	384	634.13	11158	
SEAARC2010	29Aug2001:16:05:00	32.5	390	633.63	11096	
SEAARC2010	29Aug2001:16:05:00	33.0	396	633.13	18537	
SEAARC2010	29Aug2001:16:05:00	33.5	402	632.63	28850	
SEAARC2010	29Aug2001:16:05:00	34.0	408	632.13	8128	
SEAARC2010	29Aug2001:16:05:00	34.5	414	631.63	5203	
SEAARC2010	29Aug2001:16:05:00	35.0	420	631.13	5180	5087
SEAARC2010	29Aug2001:16:05:00	35.5	426	630.63	5208	
SEAARC2010	29Aug2001:16:05:00	36.0	432	630.13	4492	
SEAARC2010	29Aug2001:16:05:00	36.5	438	629.63	3529	
SEAARC2010	29Aug2001:16:05:00	37.0	444	629.13	3956	
SEAARC2010	29Aug2001:16:05:00	37.5	450	628.63	3662	
SEAARC2010	29Aug2001:16:05:00	38.0	456	628.13	5446	
SEAARC2010	29Aug2001:16:05:00	38.5	462	627.63	5949	
SEAARC2010	29Aug2001:16:05:00	39.0	468	627.13	3981	
SEAARC2010	29Aug2001:16:05:00	39.5	474	626.63	3169	
SEAARC2010	29Aug2001:16:05:00	40.0	480	626.13	2663	2718

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2010	29Aug2001:16:05:00	40.5	486	625.63	2567	
SEAARC2010	29Aug2001:16:05:00	41.0	492	625.13	2845	
SEAARC2010	29Aug2001:16:05:00	41.5	498	624.63	2995	
SEAARC2010	29Aug2001:16:05:00	42.0	504	624.13	4202	
SEAARC2010	29Aug2001:16:05:00	42.5	510	623.63	5769	
SEAARC2010	29Aug2001:16:05:00	43.0	516	623.13	6975	
SEAARC2010	29Aug2001:16:05:00	43.5	522	622.63	8606	
SEAARC2010	29Aug2001:16:05:00	44.0	528	622.13	6874	
SEAARC2010	29Aug2001:16:05:00	44.5	534	621.63	5287	
SEAARC2010	29Aug2001:16:05:00	45.0	540	621.13	5628	5627
SEAARC2011	30Aug2001:08:15:00	0.0	0	665.77	5769	
SEAARC2011	30Aug2001:08:15:00	0.5	6	665.27	9116	
SEAARC2011	30Aug2001:08:15:00	1.0	12	664.77	10407	
SEAARC2011	30Aug2001:08:15:00	1.5	18	664.27		
SEAARC2011	30Aug2001:08:15:00	2.0	24	663.77		
SEAARC2011	30Aug2001:08:15:00	2.5	30	663.27		
SEAARC2011	30Aug2001:08:15:00	3.0	36	662.77	11031	
SEAARC2011	30Aug2001:08:15:00	3.5	42	662.27		
SEAARC2011	30Aug2001:08:15:00	4.0	48	661.77		
SEAARC2011	30Aug2001:08:15:00	4.5	54	661.27		
SEAARC2011	30Aug2001:08:15:00	5.0	60	660.77	8504	
SEAARC2011	30Aug2001:08:15:00	5.5	66	660.27		
SEAARC2011	30Aug2001:08:15:00	6.0	72	659.77		
SEAARC2011	30Aug2001:08:15:00	6.5	78	659.27		
SEAARC2011	30Aug2001:08:15:00	7.0	84	658.77	3842	
SEAARC2011	30Aug2001:08:15:00	7.5	90	658.27		
SEAARC2011	30Aug2001:08:15:00	8.0	96	657.77		
SEAARC2011	30Aug2001:08:15:00	8.5	102	657.27		
SEAARC2011	30Aug2001:08:15:00	9.0	108	656.77	3787	
SEAARC2011	30Aug2001:08:15:00	9.5	114	656.27		
SEAARC2011	30Aug2001:08:15:00	10.0	120	655.77		
SEAARC2011	30Aug2001:08:15:00	10.5	126	655.27		
SEAARC2011	30Aug2001:08:15:00	11.0	132	654.77	5885	
SEAARC2011	30Aug2001:08:15:00	11.5	138	654.27		
SEAARC2011	30Aug2001:08:15:00	12.0	144	653.77		
SEAARC2011	30Aug2001:08:15:00	12.5	150	653.27		
SEAARC2011	30Aug2001:08:15:00	13.0	156	652.77	2356	
SEAARC2011	30Aug2001:08:15:00	13.5	162	652.27		
SEAARC2011	30Aug2001:08:15:00	14.0	168	651.77		
SEAARC2011	30Aug2001:08:15:00	14.5	174	651.27		
SEAARC2011	30Aug2001:08:15:00	15.0	180	650.77	2646	2772
SEAARC2011	30Aug2001:08:15:00	15.5	186	650.27		
SEAARC2011	30Aug2001:08:15:00	16.0	192	649.77		
SEAARC2011	30Aug2001:08:15:00	16.5	198	649.27		
SEAARC2011	30Aug2001:08:15:00	17.0	204	648.77	2462	
SEAARC2011	30Aug2001:08:15:00	17.5	210	648.27		
SEAARC2011	30Aug2001:08:15:00	18.0	216	647.77		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2011	30Aug2001:08:15:00	18.5	222	647.27		
SEAARC2011	30Aug2001:08:15:00	19.0	228	646.77	4653	
SEAARC2011	30Aug2001:08:15:00	19.5	234	646.27		
SEAARC2011	30Aug2001:08:15:00	20.0	240	645.77		
SEAARC2011	30Aug2001:08:15:00	20.5	246	645.27		
SEAARC2011	30Aug2001:08:15:00	21.0	252	644.77	3510	
SEAARC2011	30Aug2001:08:15:00	21.5	258	644.27		
SEAARC2011	30Aug2001:08:15:00	22.0	264	643.77		
SEAARC2011	30Aug2001:08:15:00	22.5	270	643.27		
SEAARC2011	30Aug2001:08:15:00	23.0	276	642.77	3918	
SEAARC2011	30Aug2001:08:15:00	23.5	282	642.27		
SEAARC2011	30Aug2001:08:15:00	24.0	288	641.77		
SEAARC2011	30Aug2001:08:15:00	24.5	294	641.27		
SEAARC2011	30Aug2001:08:15:00	25.0	300	640.77	2902	2890
SEAARC2011	30Aug2001:08:15:00	25.5	306	640.27		
SEAARC2011	30Aug2001:08:15:00	26.0	312	639.77		
SEAARC2011	30Aug2001:08:15:00	26.5	318	639.27		
SEAARC2011	30Aug2001:08:15:00	27.0	324	638.77	3808	
SEAARC2011	30Aug2001:08:15:00	27.5	330	638.27		
SEAARC2011	30Aug2001:08:15:00	28.0	336	637.77	11192	
SEAARC2011	30Aug2001:08:15:00	28.5	342	637.27	16010	
SEAARC2011	30Aug2001:08:15:00	29.0	348	636.77	17353	
SEAARC2011	30Aug2001:08:15:00	29.5	354	636.27	17215	
SEAARC2011	30Aug2001:08:15:00	30.0	360	635.77	9146	9023
SEAARC2011	30Aug2001:08:15:00	30.5	366	635.27	8102	
SEAARC2011	30Aug2001:08:15:00	31.0	372	634.77	6609	
SEAARC2011	30Aug2001:08:15:00	31.5	378	634.27	3823	
SEAARC2011	30Aug2001:08:15:00	32.0	384	633.77	3382	
SEAARC2011	30Aug2001:08:15:00	32.5	390	633.27	4836	
SEAARC2011	30Aug2001:08:15:00	33.0	396	632.77	6938	
SEAARC2011	30Aug2001:08:15:00	33.5	402	632.27	7053	
SEAARC2011	30Aug2001:08:15:00	34.0	408	631.77	5739	
SEAARC2011	30Aug2001:08:15:00	34.5	414	631.27	4641	
SEAARC2011	30Aug2001:08:15:00	35.0	420	630.77	3764	3852
SEAARC2011	30Aug2001:08:15:00	35.5	426	630.27	4248	
SEAARC2011	30Aug2001:08:15:00	36.0	432	629.77	5846	
SEAARC2011	30Aug2001:08:15:00	36.5	438	629.27	7248	
SEAARC2011	30Aug2001:08:15:00	37.0	444	628.77	7347	
SEAARC2011	30Aug2001:08:15:00	37.5	450	628.27	5912	
SEAARC2011	30Aug2001:08:15:00	38.0	456	627.77	4171	
SEAARC2011	30Aug2001:08:15:00	38.5	462	627.27	4248	
SEAARC2011	30Aug2001:08:15:00	39.0	468	626.77	6377	
SEAARC2011	30Aug2001:08:15:00	39.5	474	626.27	5916	
SEAARC2011	30Aug2001:08:15:00	40.0	480	625.77	4441	4409
SEAARC2011	30Aug2001:08:15:00	40.5	486	625.27	4432	
SEAARC2011	30Aug2001:08:15:00	41.0	492	624.77	5033	
SEAARC2011	30Aug2001:08:15:00	41.5	498	624.27	6403	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2011	30Aug2001:08:15:00	42.0	504	623.77	9708	
SEAARC2011	30Aug2001:08:15:00	42.5	510	623.27	8503	
SEAARC2011	30Aug2001:08:15:00	43.0	516	622.77	5737	
SEAARC2011	30Aug2001:08:15:00	43.5	522	622.27	3644	
SEAARC2011	30Aug2001:08:15:00	44.0	528	621.77	3212	
SEAARC2011	30Aug2001:08:15:00	44.5	534	621.27	3276	
SEAARC2011	30Aug2001:08:15:00	45.0	540	620.77	4005	4036
SEAARC2011	30Aug2001:08:15:00	45.5	546	620.27	6588	
SEAARC2012	02Sep2001:10:25:00	0.0	0	690.05	3984	
SEAARC2012	02Sep2001:10:25:00	0.5	6	689.55	4364	
SEAARC2012	02Sep2001:10:25:00	1.0	12	689.05	4574	
SEAARC2012	02Sep2001:10:25:00	1.5	18	688.55		
SEAARC2012	02Sep2001:10:25:00	2.0	24	688.05		
SEAARC2012	02Sep2001:10:25:00	2.5	30	687.55		
SEAARC2012	02Sep2001:10:25:00	3.0	36	687.05	3544	
SEAARC2012	02Sep2001:10:25:00	3.5	42	686.55		
SEAARC2012	02Sep2001:10:25:00	4.0	48	686.05		
SEAARC2012	02Sep2001:10:25:00	4.5	54	685.55		
SEAARC2012	02Sep2001:10:25:00	5.0	60	685.05	7188	
SEAARC2012	02Sep2001:10:25:00	5.5	66	684.55		
SEAARC2012	02Sep2001:10:25:00	6.0	72	684.05		
SEAARC2012	02Sep2001:10:25:00	6.5	78	683.55		
SEAARC2012	02Sep2001:10:25:00	7.0	84	683.05	2125	
SEAARC2012	02Sep2001:10:25:00	7.5	90	682.55		
SEAARC2012	02Sep2001:10:25:00	8.0	96	682.05		
SEAARC2012	02Sep2001:10:25:00	8.5	102	681.55		
SEAARC2012	02Sep2001:10:25:00	9.0	108	681.05	2247	
SEAARC2012	02Sep2001:10:25:00	9.5	114	680.55		
SEAARC2012	02Sep2001:10:25:00	10.0	120	680.05		
SEAARC2012	02Sep2001:10:25:00	10.5	126	679.55		
SEAARC2012	02Sep2001:10:25:00	11.0	132	679.05	4041	
SEAARC2012	02Sep2001:10:25:00	11.5	138	678.55		
SEAARC2012	02Sep2001:10:25:00	12.0	144	678.05		
SEAARC2012	02Sep2001:10:25:00	12.5	150	677.55		
SEAARC2012	02Sep2001:10:25:00	13.0	156	677.05	6290	
SEAARC2012	02Sep2001:10:25:00	13.5	162	676.55		
SEAARC2012	02Sep2001:10:25:00	14.0	168	676.05		
SEAARC2012	02Sep2001:10:25:00	14.5	174	675.55		
SEAARC2012	02Sep2001:10:25:00	15.0	180	675.05	3215	3153
SEAARC2012	02Sep2001:10:25:00	15.5	186	674.55		
SEAARC2012	02Sep2001:10:25:00	16.0	192	674.05		
SEAARC2012	02Sep2001:10:25:00	16.5	198	673.55		
SEAARC2012	02Sep2001:10:25:00	17.0	204	673.05	5818	
SEAARC2012	02Sep2001:10:25:00	17.5	210	672.55		
SEAARC2012	02Sep2001:10:25:00	18.0	216	672.05		
SEAARC2012	02Sep2001:10:25:00	18.5	222	671.55		
SEAARC2012	02Sep2001:10:25:00	19.0	228	671.05	8318	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2012	02Sep2001:10:25:00	19.5	234	670.55		
SEAARC2012	02Sep2001:10:25:00	20.0	240	670.05		
SEAARC2012	02Sep2001:10:25:00	20.5	246	669.55		
SEAARC2012	02Sep2001:10:25:00	21.0	252	669.05	3881	
SEAARC2012	02Sep2001:10:25:00	21.5	258	668.55		
SEAARC2012	02Sep2001:10:25:00	22.0	264	668.05		
SEAARC2012	02Sep2001:10:25:00	22.5	270	667.55		
SEAARC2012	02Sep2001:10:25:00	23.0	276	667.05	5315	
SEAARC2012	02Sep2001:10:25:00	23.5	282	666.55		
SEAARC2012	02Sep2001:10:25:00	24.0	288	666.05		
SEAARC2012	02Sep2001:10:25:00	24.5	294	665.55		
SEAARC2012	02Sep2001:10:25:00	25.0	300	665.05	2578	
SEAARC2012	02Sep2001:10:25:00	25.5	306	664.55		
SEAARC2012	02Sep2001:10:25:00	26.0	312	664.05		
SEAARC2012	02Sep2001:10:25:00	26.5	318	663.55		
SEAARC2012	02Sep2001:10:25:00	27.0	324	663.05	5037	
SEAARC2012	02Sep2001:10:25:00	27.5	330	662.55		
SEAARC2012	02Sep2001:10:25:00	28.0	336	662.05		
SEAARC2012	02Sep2001:10:25:00	28.5	342	661.55		
SEAARC2012	02Sep2001:10:25:00	29.0	348	661.05	3477	
SEAARC2012	02Sep2001:10:25:00	29.5	354	660.55		
SEAARC2012	02Sep2001:10:25:00	30.0	360	660.05		
SEAARC2012	02Sep2001:10:25:00	30.5	366	659.55		
SEAARC2012	02Sep2001:10:25:00	31.0	372	659.05	2464	
SEAARC2012	02Sep2001:10:25:00	31.5	378	658.55		
SEAARC2012	02Sep2001:10:25:00	32.0	384	658.05		
SEAARC2012	02Sep2001:10:25:00	32.5	390	657.55		
SEAARC2012	02Sep2001:10:25:00	33.0	396	657.05	4776	
SEAARC2012	02Sep2001:10:25:00	33.5	402	656.55		
SEAARC2012	02Sep2001:10:25:00	34.0	408	656.05		
SEAARC2012	02Sep2001:10:25:00	34.5	414	655.55		
SEAARC2012	02Sep2001:10:25:00	35.0	420	655.05	2038	1985
SEAARC2012	02Sep2001:10:25:00	35.5	426	654.55		
SEAARC2012	02Sep2001:10:25:00	36.0	432	654.05		
SEAARC2012	02Sep2001:10:25:00	36.5	438	653.55		
SEAARC2012	02Sep2001:10:25:00	37.0	444	653.05	5709	
SEAARC2012	02Sep2001:10:25:00	37.5	450	652.55		
SEAARC2012	02Sep2001:10:25:00	38.0	456	652.05		
SEAARC2012	02Sep2001:10:25:00	38.5	462	651.55		
SEAARC2012	02Sep2001:10:25:00	39.0	468	651.05	4663	
SEAARC2012	02Sep2001:10:25:00	39.5	474	650.55		
SEAARC2012	02Sep2001:10:25:00	40.0	480	650.05		
SEAARC2012	02Sep2001:10:25:00	40.5	486	649.55		
SEAARC2012	02Sep2001:10:25:00	41.0	492	649.05	2140	
SEAARC2012	02Sep2001:10:25:00	41.5	498	648.55		
SEAARC2012	02Sep2001:10:25:00	42.0	504	648.05		
SEAARC2012	02Sep2001:10:25:00	42.5	510	647.55		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2012	02Sep2001:10:25:00	43.0	516	647.05	3051	
SEAARC2012	02Sep2001:10:25:00	43.5	522	646.55		
SEAARC2012	02Sep2001:10:25:00	44.0	528	646.05		
SEAARC2012	02Sep2001:10:25:00	44.5	534	645.55		
SEAARC2012	02Sep2001:10:25:00	45.0	540	645.05	2458	
SEAARC2012	02Sep2001:10:25:00	45.5	546	644.55		
SEAARC2012	02Sep2001:10:25:00	46.0	552	644.05		
SEAARC2012	02Sep2001:10:25:00	46.5	558	643.55		
SEAARC2012	02Sep2001:10:25:00	47.0	564	643.05	3519	
SEAARC2012	02Sep2001:10:25:00	47.5	570	642.55		
SEAARC2012	02Sep2001:10:25:00	48.0	576	642.05		
SEAARC2012	02Sep2001:10:25:00	48.5	582	641.55		
SEAARC2012	02Sep2001:10:25:00	49.0	588	641.05	3691	
SEAARC2012	02Sep2001:10:25:00	49.5	594	640.55		
SEAARC2012	02Sep2001:10:25:00	50.0	600	640.05		
SEAARC2012	02Sep2001:10:25:00	50.5	606	639.55		
SEAARC2012	02Sep2001:10:25:00	51.0	612	639.05	3288	
SEAARC2012	02Sep2001:10:25:00	51.5	618	638.55		
SEAARC2012	02Sep2001:10:25:00	52.0	624	638.05		
SEAARC2012	02Sep2001:10:25:00	52.5	630	637.55		
SEAARC2012	02Sep2001:10:25:00	53.0	636	637.05	3178	
SEAARC2012	02Sep2001:10:25:00	53.5	642	636.55		
SEAARC2012	02Sep2001:10:25:00	54.0	648	636.05		
SEAARC2012	02Sep2001:10:25:00	54.5	654	635.55		
SEAARC2012	02Sep2001:10:25:00	55.0	660	635.05		
SEAARC2012	02Sep2001:10:25:00	55.5	666	634.55	3182	3148
SEAARC2012	02Sep2001:10:25:00	56.0	672	634.05		
SEAARC2012	02Sep2001:10:25:00	56.5	678	633.55		
SEAARC2012	02Sep2001:10:25:00	57.0	684	633.05		
SEAARC2012	02Sep2001:10:25:00	57.5	690	632.55		
SEAARC2012	02Sep2001:10:25:00	58.0	696	632.05		
SEAARC2012	02Sep2001:10:25:00	58.5	702	631.55		
SEAARC2012	02Sep2001:10:25:00	59.0	708	631.05		
SEAARC2012	02Sep2001:10:25:00	59.5	714	630.55		
SEAARC2012	18Sep2001:00:00:00	60.0	720	630.05	5274	
SEAARC2012	18Sep2001:00:00:00	60.5	726	629.55	5673	
SEAARC2012	18Sep2001:00:00:00	61.0	732	629.05	5125	
SEAARC2012	18Sep2001:00:00:00	61.5	738	628.55	4346	
SEAARC2012	18Sep2001:00:00:00	62.0	744	628.05	4975	
SEAARC2012	18Sep2001:00:00:00	62.5	750	627.55	5319	
SEAARC2012	18Sep2001:00:00:00	63.0	756	627.05	6046	
SEAARC2012	18Sep2001:00:00:00	63.5	762	626.55	6493	
SEAARC2012	18Sep2001:00:00:00	64.0	768	626.05	6378	
SEAARC2012	18Sep2001:00:00:00	64.5	774	625.55	5909	
SEAARC2012	18Sep2001:00:00:00	65.0	780	625.05	6098	
SEAARC2012	18Sep2001:00:00:00	65.5	786	624.55	6464	
SEAARC2012	18Sep2001:00:00:00	66.0	792	624.05	6171	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2012	18Sep2001:00:00:00	66.5	798	623.55	5006	
SEAARC2012	18Sep2001:00:00:00	67.0	804	623.05	5405	
SEAARC2012	18Sep2001:00:00:00	67.5	810	622.55	5611	
SEAARC2012	18Sep2001:00:00:00	68.0	816	622.05	4012	
SEAARC2012	18Sep2001:00:00:00	68.5	822	621.55	3710	
SEAARC2012	18Sep2001:00:00:00	69.0	828	621.05	3303	
SEAARC2012	18Sep2001:00:00:00	69.5	834	620.55	2098	
SEAARC2012	18Sep2001:00:00:00	70.0	840	620.05	1731	
SEAARC2012	18Sep2001:00:00:00	70.5	846	619.55	2283	
SEAARC2012	18Sep2001:00:00:00	71.0	852	619.05	3305	
SEAARC2012	18Sep2001:00:00:00	71.5	858	618.55	5375	
SEAARC2012	18Sep2001:00:00:00	72.0	864	618.05	10994	
SEAARC2012	18Sep2001:00:00:00	72.5	870	617.55	18008	
SEAARC2012	18Sep2001:00:00:00	73.0	876	617.05	12560	
SEAARC2012	18Sep2001:00:00:00	73.5	882	616.55	10795	
SEAARC2012	18Sep2001:00:00:00	74.0	888	616.05	10291	
SEAARC2012	18Sep2001:00:00:00	74.5	894	615.55	6463	
SEAARC2012	18Sep2001:00:00:00	75.0	900	615.05	3778	
SEAARC2012	18Sep2001:00:00:00	75.5	906	614.55	3683	
SEAARC2012	18Sep2001:00:00:00	76.0	912	614.05	6690	
SEAARC2012	18Sep2001:00:00:00	76.5	918	613.55	6766	
SEAARC2012	18Sep2001:00:00:00	77.0	924	613.05	5334	
SEAARC2012	18Sep2001:00:00:00	77.5	930	612.55	4222	
SEAARC2012	18Sep2001:00:00:00	78.0	936	612.05	4600	
SEAARC2013	02Sep2001:09:00:00	0.0	0	684.42	5487	
SEAARC2013	02Sep2001:09:00:00	0.5	6	683.92	7801	
SEAARC2013	02Sep2001:09:00:00	1.0	12	683.42	10004	
SEAARC2013	02Sep2001:09:00:00	1.5	18	682.92		
SEAARC2013	02Sep2001:09:00:00	2.0	24	682.42		
SEAARC2013	02Sep2001:09:00:00	2.5	30	681.92		
SEAARC2013	02Sep2001:09:00:00	3.0	36	681.42	8785	
SEAARC2013	02Sep2001:09:00:00	3.5	42	680.92		
SEAARC2013	02Sep2001:09:00:00	4.0	48	680.42		
SEAARC2013	02Sep2001:09:00:00	4.5	54	679.92		
SEAARC2013	02Sep2001:09:00:00	5.0	60	679.42	4959	
SEAARC2013	02Sep2001:09:00:00	5.5	66	678.92		
SEAARC2013	02Sep2001:09:00:00	6.0	72	678.42		
SEAARC2013	02Sep2001:09:00:00	6.5	78	677.92		
SEAARC2013	02Sep2001:09:00:00	7.0	84	677.42	4100	
SEAARC2013	02Sep2001:09:00:00	7.5	90	676.92		
SEAARC2013	02Sep2001:09:00:00	8.0	96	676.42		
SEAARC2013	02Sep2001:09:00:00	8.5	102	675.92		
SEAARC2013	02Sep2001:09:00:00	9.0	108	675.42	6940	
SEAARC2013	02Sep2001:09:00:00	9.5	114	674.92		
SEAARC2013	02Sep2001:09:00:00	10.0	120	674.42		
SEAARC2013	02Sep2001:09:00:00	10.5	126	673.92		
SEAARC2013	02Sep2001:09:00:00	11.0	132	673.42	7111	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2013	02Sep2001:09:00:00	11.5	138	672.92		
SEAARC2013	02Sep2001:09:00:00	12.0	144	672.42		
SEAARC2013	02Sep2001:09:00:00	12.5	150	671.92		
SEAARC2013	02Sep2001:09:00:00	13.0	156	671.42	1867	
SEAARC2013	02Sep2001:09:00:00	13.5	162	670.92		
SEAARC2013	02Sep2001:09:00:00	14.0	168	670.42		
SEAARC2013	02Sep2001:09:00:00	14.5	174	669.92		
SEAARC2013	02Sep2001:09:00:00	15.0	180	669.42	3658	3663
SEAARC2013	02Sep2001:09:00:00	15.5	186	668.92		
SEAARC2013	02Sep2001:09:00:00	16.0	192	668.42		
SEAARC2013	02Sep2001:09:00:00	16.5	198	667.92		
SEAARC2013	02Sep2001:09:00:00	17.0	204	667.42	3952	
SEAARC2013	02Sep2001:09:00:00	17.5	210	666.92		
SEAARC2013	02Sep2001:09:00:00	18.0	216	666.42		
SEAARC2013	02Sep2001:09:00:00	18.5	222	665.92		
SEAARC2013	02Sep2001:09:00:00	19.0	228	665.42	2727	
SEAARC2013	02Sep2001:09:00:00	19.5	234	664.92		
SEAARC2013	02Sep2001:09:00:00	20.0	240	664.42		
SEAARC2013	02Sep2001:09:00:00	20.5	246	663.92		
SEAARC2013	02Sep2001:09:00:00	21.0	252	663.42	7316	
SEAARC2013	02Sep2001:09:00:00	21.5	258	662.92		
SEAARC2013	02Sep2001:09:00:00	22.0	264	662.42		
SEAARC2013	02Sep2001:09:00:00	22.5	270	661.92		
SEAARC2013	02Sep2001:09:00:00	23.0	276	661.42	2514	
SEAARC2013	02Sep2001:09:00:00	23.5	282	660.92		
SEAARC2013	02Sep2001:09:00:00	24.0	288	660.42		
SEAARC2013	02Sep2001:09:00:00	24.5	294	659.92		
SEAARC2013	02Sep2001:09:00:00	25.0	300	659.42	7103	
SEAARC2013	02Sep2001:09:00:00	25.5	306	658.92		
SEAARC2013	02Sep2001:09:00:00	26.0	312	658.42		
SEAARC2013	02Sep2001:09:00:00	26.5	318	657.92		
SEAARC2013	02Sep2001:09:00:00	27.0	324	657.42	4574	
SEAARC2013	02Sep2001:09:00:00	27.5	330	656.92		
SEAARC2013	02Sep2001:09:00:00	28.0	336	656.42		
SEAARC2013	02Sep2001:09:00:00	28.5	342	655.92		
SEAARC2013	02Sep2001:09:00:00	29.0	348	655.42	4277	
SEAARC2013	02Sep2001:09:00:00	29.5	354	654.92		
SEAARC2013	02Sep2001:09:00:00	30.0	360	654.42		
SEAARC2013	02Sep2001:09:00:00	30.5	366	653.92		
SEAARC2013	02Sep2001:09:00:00	31.0	372	653.42	6045	
SEAARC2013	02Sep2001:09:00:00	31.5	378	652.92		
SEAARC2013	02Sep2001:09:00:00	32.0	384	652.42		
SEAARC2013	02Sep2001:09:00:00	32.5	390	651.92		
SEAARC2013	02Sep2001:09:00:00	33.0	396	651.42	2395	
SEAARC2013	02Sep2001:09:00:00	33.5	402	650.92		
SEAARC2013	02Sep2001:09:00:00	34.0	408	650.42		
SEAARC2013	02Sep2001:09:00:00	34.5	414	649.92		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2013	02Sep2001:09:00:00	35.0	420	649.42	2902	3013
SEAARC2013	02Sep2001:09:00:00	35.5	426	648.92		
SEAARC2013	02Sep2001:09:00:00	36.0	432	648.42		
SEAARC2013	02Sep2001:09:00:00	36.5	438	647.92		
SEAARC2013	02Sep2001:09:00:00	37.0	444	647.42	3859	
SEAARC2013	02Sep2001:09:00:00	37.5	450	646.92		
SEAARC2013	02Sep2001:09:00:00	38.0	456	646.42		
SEAARC2013	02Sep2001:09:00:00	38.5	462	645.92		
SEAARC2013	02Sep2001:09:00:00	39.0	468	645.42	2979	
SEAARC2013	02Sep2001:09:00:00	39.5	474	644.92		
SEAARC2013	02Sep2001:09:00:00	40.0	480	644.42		
SEAARC2013	02Sep2001:09:00:00	40.5	486	643.92		
SEAARC2013	02Sep2001:09:00:00	41.0	492	643.42	3045	
SEAARC2013	02Sep2001:09:00:00	41.5	498	642.92		
SEAARC2013	02Sep2001:09:00:00	42.0	504	642.42		
SEAARC2013	02Sep2001:09:00:00	42.5	510	641.92		
SEAARC2013	02Sep2001:09:00:00	43.0	516	641.42	3463	
SEAARC2013	02Sep2001:09:00:00	43.5	522	640.92		
SEAARC2013	02Sep2001:09:00:00	44.0	528	640.42		
SEAARC2013	02Sep2001:09:00:00	44.5	534	639.92		
SEAARC2013	02Sep2001:09:00:00	45.0	540	639.42	1735	
SEAARC2013	02Sep2001:09:00:00	45.5	546	638.92		
SEAARC2013	02Sep2001:09:00:00	46.0	552	638.42		
SEAARC2013	02Sep2001:09:00:00	46.5	558	637.92		
SEAARC2013	02Sep2001:09:00:00	47.0	564	637.42	2324	
SEAARC2013	02Sep2001:09:00:00	47.5	570	636.92		
SEAARC2013	02Sep2001:09:00:00	48.0	576	636.42		
SEAARC2013	02Sep2001:09:00:00	48.5	582	635.92		
SEAARC2013	02Sep2001:09:00:00	49.0	588	635.42	2576	2731
SEAARC2013	02Sep2001:09:00:00	49.5	594	634.92		
SEAARC2013	02Sep2001:09:00:00	50.0	600	634.42		
SEAARC2013	02Sep2001:09:00:00	50.5	606	633.92		
SEAARC2013	02Sep2001:09:00:00	51.0	612	633.42		
SEAARC2013	02Sep2001:09:00:00	51.5	618	632.92	8676	
SEAARC2013	02Sep2001:09:00:00	52.0	624	632.42	13195	
SEAARC2013	02Sep2001:09:00:00	52.5	630	631.92	25384	
SEAARC2013	02Sep2001:09:00:00	53.0	636	631.42	26293	
SEAARC2013	02Sep2001:09:00:00	53.5	642	630.92	24065	
SEAARC2013	02Sep2001:09:00:00	54.0	648	630.42	11360	
SEAARC2013	02Sep2001:09:00:00	54.5	654	629.92	7164	
SEAARC2013	02Sep2001:09:00:00	55.0	660	629.42		
SEAARC2013	02Sep2001:09:00:00	55.5	666	628.92		
SEAARC2013	02Sep2001:09:00:00	56.0	672	628.42		
SEAARC2013	02Sep2001:09:00:00	56.5	678	627.92		
SEAARC2013	02Sep2001:09:00:00	57.0	684	627.42		
SEAARC2013	02Sep2001:09:00:00	57.5	690	626.92		
SEAARC2013	02Sep2001:09:00:00	58.0	696	626.42		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2013	02Sep2001:09:00:00	58.5	702	625.92		
SEAARC2013	02Sep2001:09:00:00	59.0	708	625.42		
SEAARC2013	02Sep2001:09:00:00	59.5	714	624.92		
SEAARC2013	18Sep2001:00:00:00	60.0	720	624.42	7591	
SEAARC2013	18Sep2001:00:00:00	60.5	726	623.92	4624	
SEAARC2013	18Sep2001:00:00:00	61.0	732	623.42	3833	
SEAARC2013	18Sep2001:00:00:00	61.5	738	622.92	3020	
SEAARC2013	18Sep2001:00:00:00	62.0	744	622.42	3012	
SEAARC2013	18Sep2001:00:00:00	62.5	750	621.92	4949	
SEAARC2013	18Sep2001:00:00:00	63.0	756	621.42	6844	
SEAARC2013	18Sep2001:00:00:00	63.5	762	620.92	6427	
SEAARC2013	18Sep2001:00:00:00	64.0	768	620.42	6882	
SEAARC2013	18Sep2001:00:00:00	64.5	774	619.92	6129	
SEAARC2013	18Sep2001:00:00:00	65.0	780	619.42	5041	
SEAARC2013	18Sep2001:00:00:00	65.5	786	618.92	3634	
SEAARC2013	18Sep2001:00:00:00	66.0	792	618.42	3259	
SEAARC2013	18Sep2001:00:00:00	66.5	798	617.92	3741	
SEAARC2013	18Sep2001:00:00:00	67.0	804	617.42	4253	
SEAARC2013	18Sep2001:00:00:00	67.5	810	616.92	4413	
SEAARC2013	18Sep2001:00:00:00	68.0	816	616.42	4095	
SEAARC2013	18Sep2001:00:00:00	68.5	822	615.92	4057	
SEAARC2014	31Aug2001:15:35:00	0.0	0	633.22	5708	
SEAARC2014	31Aug2001:15:35:00	0.5	6	632.72	7422	
SEAARC2014	31Aug2001:15:35:00	1.0	12	632.22	9114	
SEAARC2014	31Aug2001:15:35:00	1.5	18	631.72	7582	
SEAARC2014	31Aug2001:15:35:00	2.0	24	631.22	5536	
SEAARC2014	31Aug2001:15:35:00	2.5	30	630.72	6269	
SEAARC2014	31Aug2001:15:35:00	3.0	36	630.22	9583	
SEAARC2014	31Aug2001:15:35:00	3.5	42	629.72	11980	
SEAARC2014	31Aug2001:15:35:00	4.0	48	629.22	11140	
SEAARC2014	31Aug2001:15:35:00	4.5	54	628.72	9918	
SEAARC2014	31Aug2001:15:35:00	5.0	60	628.22	8704	8648
SEAARC2014	31Aug2001:15:35:00	5.5	66	627.72	8015	
SEAARC2014	31Aug2001:15:35:00	6.0	72	627.22	8299	
SEAARC2014	31Aug2001:15:35:00	6.5	78	626.72	9194	
SEAARC2014	31Aug2001:15:35:00	7.0	84	626.22	10378	
SEAARC2014	31Aug2001:15:35:00	7.5	90	625.72	12790	
SEAARC2014	31Aug2001:15:35:00	8.0	96	625.22	15270	
SEAARC2014	31Aug2001:15:35:00	8.5	102	624.72	18122	
SEAARC2014	31Aug2001:15:35:00	9.0	108	624.22	23821	
SEAARC2014	31Aug2001:15:35:00	9.5	114	623.72	29225	
SEAARC2014	31Aug2001:15:35:00	10.0	120	623.22	16017	15845
SEAARC2014	31Aug2001:15:35:00	10.5	126	622.72	7359	
SEAARC2014	31Aug2001:15:35:00	11.0	132	622.22	4056	
SEAARC2014	31Aug2001:15:35:00	11.5	138	621.72	2841	
SEAARC2014	31Aug2001:15:35:00	12.0	144	621.22	2392	
SEAARC2014	31Aug2001:15:35:00	12.5	150	620.72	2586	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2014	31Aug2001:15:35:00	13.0	156	620.22	3256	
SEAARC2014	31Aug2001:15:35:00	13.5	162	619.72	4054	
SEAARC2014	31Aug2001:15:35:00	14.0	168	619.22	3852	
SEAARC2014	31Aug2001:15:35:00	14.5	174	618.72	3949	
SEAARC2014	31Aug2001:15:35:00	15.0	180	618.22	3501	3509
SEAARC2014	31Aug2001:15:35:00	15.5	186	617.72	2971	
SEAARC2014	31Aug2001:15:35:00	16.0	192	617.22	2480	
SEAARC2014	31Aug2001:15:35:00	16.5	198	616.72	2658	
SEAARC2014	31Aug2001:15:35:00	17.0	204	616.22	3829	
SEAARC2014	31Aug2001:15:35:00	17.5	210	615.72	4231	
SEAARC2014	31Aug2001:15:35:00	18.0	216	615.22	5034	
SEAARC2014	31Aug2001:15:35:00	18.5	222	614.72	4073	
SEAARC2014	31Aug2001:15:35:00	19.0	228	614.22	3257	
SEAARC2014	31Aug2001:15:35:00	19.5	234	613.72	2837	
SEAARC2014	31Aug2001:15:35:00	20.0	240	613.22	2664	2593
SEAARC2014	31Aug2001:15:35:00	20.5	246	612.72	2850	
SEAARC2014	31Aug2001:15:35:00	21.0	252	612.22	3462	3435
SEAARC2015	31Aug2001:14:20:00	0.0	0	631.31	5548	
SEAARC2015	31Aug2001:14:20:00	0.5	6	630.81	7968	
SEAARC2015	31Aug2001:14:20:00	1.0	12	630.31	9261	
SEAARC2015	31Aug2001:14:20:00	1.5	18	629.81	9022	
SEAARC2015	31Aug2001:14:20:00	2.0	24	629.31	7099	
SEAARC2015	31Aug2001:14:20:00	2.5	30	628.81	4596	
SEAARC2015	31Aug2001:14:20:00	3.0	36	628.31	3863	
SEAARC2015	31Aug2001:14:20:00	3.5	42	627.81	4273	
SEAARC2015	31Aug2001:14:20:00	4.0	48	627.31	5664	
SEAARC2015	31Aug2001:14:20:00	4.5	54	626.81	5830	
SEAARC2015	31Aug2001:14:20:00	5.0	60	626.31	5815	5809
SEAARC2015	31Aug2001:14:20:00	5.5	66	625.81	7004	
SEAARC2015	31Aug2001:14:20:00	6.0	72	625.31	8486	
SEAARC2015	31Aug2001:14:20:00	6.5	78	624.81	10250	
SEAARC2015	31Aug2001:14:20:00	7.0	84	624.31	12137	
SEAARC2015	31Aug2001:14:20:00	7.5	90	623.81	16274	
SEAARC2015	31Aug2001:14:20:00	8.0	96	623.31	13928	
SEAARC2015	31Aug2001:14:20:00	8.5	102	622.81	8870	
SEAARC2015	31Aug2001:14:20:00	9.0	108	622.31	8167	
SEAARC2015	31Aug2001:14:20:00	9.5	114	621.81	6668	
SEAARC2015	31Aug2001:14:20:00	10.0	120	621.31	5607	5608
SEAARC2015	31Aug2001:14:20:00	10.5	126	620.81	5601	
SEAARC2015	31Aug2001:14:20:00	11.0	132	620.31	4455	
SEAARC2015	31Aug2001:14:20:00	11.5	138	619.81	3416	
SEAARC2015	31Aug2001:14:20:00	12.0	144	619.31	2515	
SEAARC2015	31Aug2001:14:20:00	12.5	150	618.81	2506	
SEAARC2015	31Aug2001:14:20:00	13.0	156	618.31	3073	
SEAARC2015	31Aug2001:14:20:00	13.5	162	617.81	4371	
SEAARC2015	31Aug2001:14:20:00	14.0	168	617.31	3451	
SEAARC2015	31Aug2001:14:20:00	14.5	174	616.81	2286	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2015	31Aug2001:14:20:00	15.0	180	616.31	2027	2067
SEAARC2015	31Aug2001:14:20:00	15.5	186	615.81	2062	
SEAARC2015	31Aug2001:14:20:00	16.0	192	615.31	2432	
SEAARC2015	31Aug2001:14:20:00	16.5	198	614.81	2173	
SEAARC2015	31Aug2001:14:20:00	17.0	204	614.31	1965	
SEAARC2015	31Aug2001:14:20:00	17.5	210	613.81	2682	
SEAARC2015	31Aug2001:14:20:00	18.0	216	613.31	3745	
SEAARC2015	31Aug2001:14:20:00	18.5	222	612.81	5021	
SEAARC2015	31Aug2001:14:20:00	19.0	228	612.31	6096	
SEAARC2015	31Aug2001:14:20:00	19.5	234	611.81	6810	
SEAARC2015	31Aug2001:14:20:00	20.0	240	611.31	8076	7973
SEAARC2016	30Aug2001:11:30:00	0.0	0	629.49	6563	
SEAARC2016	30Aug2001:11:30:00	0.5	6	628.99	8833	
SEAARC2016	30Aug2001:11:30:00	1.0	12	628.49	10834	
SEAARC2016	30Aug2001:11:30:00	1.5	18	627.99	13370	
SEAARC2016	30Aug2001:11:30:00	2.0	24	627.49	21344	
SEAARC2016	30Aug2001:11:30:00	2.5	30	626.99	16290	
SEAARC2016	30Aug2001:11:30:00	3.0	36	626.49	7874	
SEAARC2016	30Aug2001:11:30:00	3.5	42	625.99	5942	
SEAARC2016	30Aug2001:11:30:00	4.0	48	625.49	5324	
SEAARC2016	30Aug2001:11:30:00	4.5	54	624.99	3881	
SEAARC2016	30Aug2001:11:30:00	5.0	60	624.49	3677	3552
SEAARC2016	30Aug2001:11:30:00	5.5	66	623.99	4179	
SEAARC2016	30Aug2001:11:30:00	6.0	72	623.49	4265	
SEAARC2016	30Aug2001:11:30:00	6.5	78	622.99	4235	
SEAARC2016	30Aug2001:11:30:00	7.0	84	622.49	3695	
SEAARC2016	30Aug2001:11:30:00	7.5	90	621.99	3050	
SEAARC2016	30Aug2001:11:30:00	8.0	96	621.49	3282	
SEAARC2016	30Aug2001:11:30:00	8.5	102	620.99	3872	
SEAARC2016	30Aug2001:11:30:00	9.0	108	620.49	4985	
SEAARC2016	30Aug2001:11:30:00	9.5	114	619.99	6213	
SEAARC2016	30Aug2001:11:30:00	10.0	120	619.49	7451	7263
SEAARC2016	30Aug2001:11:30:00	10.5	126	618.99	7273	
SEAARC2016	30Aug2001:11:30:00	11.0	132	618.49	7984	
SEAARC2016	30Aug2001:11:30:00	11.5	138	617.99	8639	
SEAARC2016	30Aug2001:11:30:00	12.0	144	617.49	8990	
SEAARC2016	30Aug2001:11:30:00	12.5	150	616.99	8598	
SEAARC2016	30Aug2001:11:30:00	13.0	156	616.49	8541	
SEAARC2016	30Aug2001:11:30:00	13.5	162	615.99	7706	
SEAARC2016	30Aug2001:11:30:00	14.0	168	615.49	5392	
SEAARC2016	30Aug2001:11:30:00	14.5	174	614.99	4227	
SEAARC2016	30Aug2001:11:30:00	15.0	180	614.49	3426	
SEAARC2016	30Aug2001:11:30:00	15.5	186	613.99	3515	3701
SEAARC2016	30Aug2001:11:30:00	16.0	192	613.49	3913	
SEAARC2016	30Aug2001:11:30:00	16.5	198	612.99	4597	
SEAARC2016	30Aug2001:11:30:00	17.0	204	612.49	4840	
SEAARC2016	30Aug2001:11:30:00	17.5	210	611.99	4228	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2016	30Aug2001:11:30:00	18.0	216	611.49	5747	
SEAARC2016	30Aug2001:11:30:00	18.5	222	610.99	7000	
SEAARC2016	30Aug2001:11:30:00	19.0	228	610.49	5078	4996
SEAARC2017	01Sep2001:09:05:00	0.0	0	637.53	5744	
SEAARC2017	01Sep2001:09:05:00	0.5	6	637.03	7427	
SEAARC2017	01Sep2001:09:05:00	1.0	12	636.53	9431	
SEAARC2017	01Sep2001:09:05:00	1.5	18	636.03	11034	
SEAARC2017	01Sep2001:09:05:00	2.0	24	635.53	11059	
SEAARC2017	01Sep2001:09:05:00	2.5	30	635.03		
SEAARC2017	01Sep2001:09:05:00	3.0	36	634.53	9125	
SEAARC2017	01Sep2001:09:05:00	3.5	42	634.03		
SEAARC2017	01Sep2001:09:05:00	4.0	48	633.53		
SEAARC2017	01Sep2001:09:05:00	4.5	54	633.03		
SEAARC2017	01Sep2001:09:05:00	5.0	60	632.53	5864	
SEAARC2017	01Sep2001:09:05:00	5.5	66	632.03		
SEAARC2017	01Sep2001:09:05:00	6.0	72	631.53		
SEAARC2017	01Sep2001:09:05:00	6.5	78	631.03		
SEAARC2017	01Sep2001:09:05:00	7.0	84	630.53	4989	
SEAARC2017	01Sep2001:09:05:00	7.5	90	630.03		
SEAARC2017	01Sep2001:09:05:00	8.0	96	629.53		
SEAARC2017	01Sep2001:09:05:00	8.5	102	629.03		
SEAARC2017	01Sep2001:09:05:00	9.0	108	628.53	8183	
SEAARC2017	01Sep2001:09:05:00	9.5	114	628.03	9739	
SEAARC2017	01Sep2001:09:05:00	10.0	120	627.53	11456	
SEAARC2017	01Sep2001:09:05:00	10.5	126	627.03	13835	
SEAARC2017	01Sep2001:09:05:00	11.0	132	626.53	17454	
SEAARC2017	01Sep2001:09:05:00	11.5	138	626.03	30949	
SEAARC2017	01Sep2001:09:05:00	12.0	144	625.53	62997	
SEAARC2017	01Sep2001:09:05:00	12.5	150	625.03	85521	
SEAARC2017	01Sep2001:09:05:00	13.0	156	624.53	78295	
SEAARC2017	01Sep2001:09:05:00	13.5	162	624.03	30991	
SEAARC2017	01Sep2001:09:05:00	14.0	168	623.53	14182	
SEAARC2017	01Sep2001:09:05:00	14.5	174	623.03	9395	9426
SEAARC2017	01Sep2001:09:05:00	15.0	180	622.53	9262	9304
SEAARC2017	01Sep2001:09:05:00	15.5	186	622.03	8640	
SEAARC2017	01Sep2001:09:05:00	16.0	192	621.53		
SEAARC2017	01Sep2001:09:05:00	16.5	198	621.03		
SEAARC2017	01Sep2001:09:05:00	17.0	204	620.53	4244	
SEAARC2017	01Sep2001:09:05:00	17.5	210	620.03		
SEAARC2017	01Sep2001:09:05:00	18.0	216	619.53		
SEAARC2017	01Sep2001:09:05:00	18.5	222	619.03		
SEAARC2017	01Sep2001:09:05:00	19.0	228	618.53	7307	
SEAARC2017	01Sep2001:09:05:00	19.5	234	618.03		
SEAARC2017	01Sep2001:09:05:00	20.0	240	617.53		
SEAARC2017	01Sep2001:09:05:00	20.5	246	617.03		
SEAARC2017	01Sep2001:09:05:00	21.0	252	616.53	9649	
SEAARC2017	01Sep2001:09:05:00	21.5	258	616.03		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2017	01Sep2001:09:05:00	22.0	264	615.53		
SEAARC2017	01Sep2001:09:05:00	22.5	270	615.03		
SEAARC2017	01Sep2001:09:05:00	23.0	276	614.53	7230	
SEAARC2017	01Sep2001:09:05:00	23.5	282	614.03		
SEAARC2017	01Sep2001:09:05:00	24.0	288	613.53		
SEAARC2017	01Sep2001:09:05:00	24.5	294	613.03		
SEAARC2017	01Sep2001:09:05:00	25.0	300	612.53	9077	8840
SEAARC2017	01Sep2001:09:05:00	25.5	306	612.03	6627	
SEAARC2017	01Sep2001:09:05:00	26.0	312	611.53	5553	
SEAARC2017	01Sep2001:09:05:00	26.5	318	611.03	5539	
SEAARC2017	01Sep2001:09:05:00	27.0	324	610.53	4967	
SEAARC2017	01Sep2001:09:05:00	27.5	330	610.03	5920	
SEAARC2017	01Sep2001:09:05:00	28.0	336	609.53	6660	
SEAARC2017	01Sep2001:09:05:00	28.5	342	609.03	7450	
SEAARC2017	01Sep2001:09:05:00	29.0	348	608.53	7809	
SEAARC2017	01Sep2001:09:05:00	29.5	354	608.03	6871	
SEAARC2017	01Sep2001:09:05:00	30.0	360	607.53	4632	4497
SEAARC2017	01Sep2001:09:05:00	30.5	366	607.03	3178	
SEAARC2017	01Sep2001:09:05:00	31.0	372	606.53	2653	
SEAARC2017	01Sep2001:09:05:00	31.5	378	606.03	2717	
SEAARC2017	01Sep2001:09:05:00	32.0	384	605.53	3136	
SEAARC2017	01Sep2001:09:05:00	32.5	390	605.03	4215	
SEAARC2017	01Sep2001:09:05:00	33.0	396	604.53	6850	
SEAARC2017	01Sep2001:09:05:00	33.5	402	604.03	9539	
SEAARC2017	01Sep2001:09:05:00	34.0	408	603.53	10641	
SEAARC2017	01Sep2001:09:05:00	34.5	414	603.03	9798	
SEAARC2017	01Sep2001:09:05:00	35.0	420	602.53	9163	9360
SEAARC2017	01Sep2001:09:05:00	35.5	426	602.03	8572	
SEAARC2017	01Sep2001:09:05:00	36.0	432	601.53	8433	
SEAARC2017	01Sep2001:09:05:00	36.5	438	601.03	8355	
SEAARC2017	01Sep2001:09:05:00	37.0	444	600.53	8755	
SEAARC2017	01Sep2001:09:05:00	37.5	450	600.03	8480	
SEAARC2017	01Sep2001:09:05:00	38.0	456	599.53	9088	
SEAARC2017	01Sep2001:09:05:00	38.5	462	599.03	9991	
SEAARC2017	01Sep2001:09:05:00	39.0	468	598.53	11856	
SEAARC2017	01Sep2001:09:05:00	39.5	474	598.03	12378	12241
SEAARC2018	01Sep2001:11:15:00	0.0	0	644.16	6748	
SEAARC2018	01Sep2001:11:15:00	0.5	6	643.66	9373	
SEAARC2018	01Sep2001:11:15:00	1.0	12	643.16	11216	
SEAARC2018	01Sep2001:11:15:00	1.5	18	642.66	11326	
SEAARC2018	01Sep2001:11:15:00	2.0	24	642.16	11190	
SEAARC2018	01Sep2001:11:15:00	2.5	30	641.66	9863	
SEAARC2018	01Sep2001:11:15:00	3.0	36	641.16	10372	
SEAARC2018	01Sep2001:11:15:00	3.5	42	640.66	9537	
SEAARC2018	01Sep2001:11:15:00	4.0	48	640.16	7520	
SEAARC2018	01Sep2001:11:15:00	4.5	54	639.66	7018	
SEAARC2018	01Sep2001:11:15:00	5.0	60	639.16	6385	6320

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2018	01Sep2001:11:15:00	5.5	66	638.66	3825	
SEAARC2018	01Sep2001:11:15:00	6.0	72	638.16	2537	
SEAARC2018	01Sep2001:11:15:00	6.5	78	637.66	2038	
SEAARC2018	01Sep2001:11:15:00	7.0	84	637.16	1823	
SEAARC2018	01Sep2001:11:15:00	7.5	90	636.66	1549	
SEAARC2018	01Sep2001:11:15:00	8.0	96	636.16	1531	
SEAARC2018	01Sep2001:11:15:00	8.5	102	635.66	1738	
SEAARC2018	01Sep2001:11:15:00	9.0	108	635.16	2106	
SEAARC2018	01Sep2001:11:15:00	9.5	114	634.66	2336	
SEAARC2018	01Sep2001:11:15:00	10.0	120	634.16	2978	3018
SEAARC2018	01Sep2001:11:15:00	10.5	126	633.66	3922	
SEAARC2018	01Sep2001:11:15:00	11.0	132	633.16	6544	
SEAARC2018	01Sep2001:11:15:00	11.5	138	632.66	8956	
SEAARC2018	01Sep2001:11:15:00	12.0	144	632.16	9720	
SEAARC2018	01Sep2001:11:15:00	12.5	150	631.66	8955	
SEAARC2018	01Sep2001:11:15:00	13.0	156	631.16	7934	
SEAARC2018	01Sep2001:11:15:00	13.5	162	630.66	7750	
SEAARC2018	01Sep2001:11:15:00	14.0	168	630.16	5685	
SEAARC2018	01Sep2001:11:15:00	14.5	174	629.66	3386	
SEAARC2018	01Sep2001:11:15:00	15.0	180	629.16	2673	2698
SEAARC2018	01Sep2001:11:15:00	15.5	186	628.66	3593	
SEAARC2018	01Sep2001:11:15:00	16.0	192	628.16	5437	
SEAARC2018	01Sep2001:11:15:00	16.5	198	627.66	7344	
SEAARC2018	01Sep2001:11:15:00	17.0	204	627.16	6967	
SEAARC2018	01Sep2001:11:15:00	17.5	210	626.66	6400	
SEAARC2018	01Sep2001:11:15:00	18.0	216	626.16	8311	
SEAARC2018	01Sep2001:11:15:00	18.5	222	625.66	7766	
SEAARC2018	01Sep2001:11:15:00	19.0	228	625.16	6439	
SEAARC2018	01Sep2001:11:15:00	19.5	234	624.66	4761	
SEAARC2018	01Sep2001:11:15:00	20.0	240	624.16	4591	4530
SEAARC2018	01Sep2001:11:15:00	20.5	246	623.66	3878	
SEAARC2018	01Sep2001:11:15:00	21.0	252	623.16	3288	
SEAARC2018	01Sep2001:11:15:00	21.5	258	622.66	4083	
SEAARC2018	01Sep2001:11:15:00	22.0	264	622.16	3618	
SEAARC2018	01Sep2001:11:15:00	22.5	270	621.66	3155	
SEAARC2018	01Sep2001:11:15:00	23.0	276	621.16	3493	
SEAARC2018	01Sep2001:11:15:00	23.5	282	620.66	3403	
SEAARC2018	01Sep2001:11:15:00	24.0	288	620.16	2527	
SEAARC2018	01Sep2001:11:15:00	24.5	294	619.66	2215	
SEAARC2018	01Sep2001:11:15:00	25.0	300	619.16	1785	1831
SEAARC2018	01Sep2001:11:15:00	25.5	306	618.66	1586	
SEAARC2018	01Sep2001:11:15:00	26.0	312	618.16	1908	
SEAARC2018	01Sep2001:11:15:00	26.5	318	617.66	3035	
SEAARC2018	01Sep2001:11:15:00	27.0	324	617.16	3946	
SEAARC2018	01Sep2001:11:15:00	27.5	330	616.66	3726	
SEAARC2018	01Sep2001:11:15:00	28.0	336	616.16	4073	
SEAARC2018	01Sep2001:11:15:00	28.5	342	615.66	3963	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2018	01Sep2001:11:15:00	29.0	348	615.16	4186	
SEAARC2018	01Sep2001:11:15:00	29.5	354	614.66	5343	
SEAARC2018	01Sep2001:11:15:00	30.0	360	614.16	7274	7386
SEAARC2018	01Sep2001:11:15:00	30.5	366	613.66	9578	
SEAARC2018	01Sep2001:11:15:00	31.0	372	613.16	10937	10742
SEAARC2019	04Sep2001:10:35:00	0.0	0	668.09	3687	
SEAARC2019	04Sep2001:10:35:00	0.5	6	667.59	3631	
SEAARC2019	04Sep2001:10:35:00	1.0	12	667.09	3694	
SEAARC2019	04Sep2001:10:35:00	1.5	18	666.59		
SEAARC2019	04Sep2001:10:35:00	2.0	24	666.09		
SEAARC2019	04Sep2001:10:35:00	2.5	30	665.59		
SEAARC2019	04Sep2001:10:35:00	3.0	36	665.09	5152	
SEAARC2019	04Sep2001:10:35:00	3.5	42	664.59		
SEAARC2019	04Sep2001:10:35:00	4.0	48	664.09		
SEAARC2019	04Sep2001:10:35:00	4.5	54	663.59		
SEAARC2019	04Sep2001:10:35:00	5.0	60	663.09	7214	
SEAARC2019	04Sep2001:10:35:00	5.5	66	662.59		
SEAARC2019	04Sep2001:10:35:00	6.0	72	662.09		
SEAARC2019	04Sep2001:10:35:00	6.5	78	661.59		
SEAARC2019	04Sep2001:10:35:00	7.0	84	661.09	2665	
SEAARC2019	04Sep2001:10:35:00	7.5	90	660.59		
SEAARC2019	04Sep2001:10:35:00	8.0	96	660.09		
SEAARC2019	04Sep2001:10:35:00	8.5	102	659.59		
SEAARC2019	04Sep2001:10:35:00	9.0	108	659.09	3429	
SEAARC2019	04Sep2001:10:35:00	9.5	114	658.59		
SEAARC2019	04Sep2001:10:35:00	10.0	120	658.09		
SEAARC2019	04Sep2001:10:35:00	10.5	126	657.59		
SEAARC2019	04Sep2001:10:35:00	11.0	132	657.09	2364	
SEAARC2019	04Sep2001:10:35:00	11.5	138	656.59		
SEAARC2019	04Sep2001:10:35:00	12.0	144	656.09		
SEAARC2019	04Sep2001:10:35:00	12.5	150	655.59		
SEAARC2019	04Sep2001:10:35:00	13.0	156	655.09	2149	
SEAARC2019	04Sep2001:10:35:00	13.5	162	654.59		
SEAARC2019	04Sep2001:10:35:00	14.0	168	654.09		
SEAARC2019	04Sep2001:10:35:00	14.5	174	653.59		
SEAARC2019	04Sep2001:10:35:00	15.0	180	653.09	4099	3945
SEAARC2019	04Sep2001:10:35:00	15.5	186	652.59		
SEAARC2019	04Sep2001:10:35:00	16.0	192	652.09		
SEAARC2019	04Sep2001:10:35:00	16.5	198	651.59		
SEAARC2019	04Sep2001:10:35:00	17.0	204	651.09	2866	
SEAARC2019	04Sep2001:10:35:00	17.5	210	650.59		
SEAARC2019	04Sep2001:10:35:00	18.0	216	650.09		
SEAARC2019	04Sep2001:10:35:00	18.5	222	649.59		
SEAARC2019	04Sep2001:10:35:00	19.0	228	649.09	3317	
SEAARC2019	04Sep2001:10:35:00	19.5	234	648.59		
SEAARC2019	04Sep2001:10:35:00	20.0	240	648.09		
SEAARC2019	04Sep2001:10:35:00	20.5	246	647.59		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2019	04Sep2001:10:35:00	21.0	252	647.09	5826	
SEAARC2019	04Sep2001:10:35:00	21.5	258	646.59		
SEAARC2019	04Sep2001:10:35:00	22.0	264	646.09		
SEAARC2019	04Sep2001:10:35:00	22.5	270	645.59		
SEAARC2019	04Sep2001:10:35:00	23.0	276	645.09	2676	
SEAARC2019	04Sep2001:10:35:00	23.5	282	644.59		
SEAARC2019	04Sep2001:10:35:00	24.0	288	644.09		
SEAARC2019	04Sep2001:10:35:00	24.5	294	643.59		
SEAARC2019	04Sep2001:10:35:00	25.0	300	643.09	4121	4188
SEAARC2019	04Sep2001:10:35:00	25.5	306	642.59		
SEAARC2019	04Sep2001:10:35:00	26.0	312	642.09	7836	
SEAARC2019	04Sep2001:10:35:00	26.5	318	641.59	9779	
SEAARC2019	04Sep2001:10:35:00	27.0	324	641.09	10513	
SEAARC2019	04Sep2001:10:35:00	27.5	330	640.59	10505	
SEAARC2019	04Sep2001:10:35:00	28.0	336	640.09	10294	
SEAARC2019	04Sep2001:10:35:00	28.5	342	639.59	11687	
SEAARC2019	04Sep2001:10:35:00	29.0	348	639.09	13486	
SEAARC2019	04Sep2001:10:35:00	29.5	354	638.59	17331	
SEAARC2019	04Sep2001:10:35:00	30.0	360	638.09	11738	11640
SEAARC2019	04Sep2001:10:35:00	30.5	366	637.59	11557	
SEAARC2019	04Sep2001:10:35:00	31.0	372	637.09	16203	
SEAARC2019	04Sep2001:10:35:00	31.5	378	636.59	27610	
SEAARC2019	04Sep2001:10:35:00	32.0	384	636.09	51335	
SEAARC2019	04Sep2001:10:35:00	32.5	390	635.59	32893	
SEAARC2019	04Sep2001:10:35:00	33.0	396	635.09	18258	
SEAARC2019	04Sep2001:10:35:00	33.5	402	634.59	20593	
SEAARC2019	04Sep2001:10:35:00	34.0	408	634.09	46066	
SEAARC2019	04Sep2001:10:35:00	34.5	414	633.59	62396	
SEAARC2019	04Sep2001:10:35:00	35.0	420	633.09	65819	66074
SEAARC2019	04Sep2001:10:35:00	35.5	426	632.59	23604	
SEAARC2019	04Sep2001:10:35:00	36.0	432	632.09	8170	
SEAARC2019	04Sep2001:10:35:00	36.5	438	631.59	4662	
SEAARC2019	04Sep2001:10:35:00	37.0	444	631.09	3191	
SEAARC2019	04Sep2001:10:35:00	37.5	450	630.59		
SEAARC2019	04Sep2001:10:35:00	38.0	456	630.09		
SEAARC2019	04Sep2001:10:35:00	38.5	462	629.59		
SEAARC2019	04Sep2001:10:35:00	39.0	468	629.09	4867	
SEAARC2019	04Sep2001:10:35:00	39.5	474	628.59		
SEAARC2019	04Sep2001:10:35:00	40.0	480	628.09		
SEAARC2019	04Sep2001:10:35:00	40.5	486	627.59		
SEAARC2019	04Sep2001:10:35:00	41.0	492	627.09	6491	
SEAARC2019	04Sep2001:10:35:00	41.5	498	626.59		
SEAARC2019	04Sep2001:10:35:00	42.0	504	626.09		
SEAARC2019	04Sep2001:10:35:00	42.5	510	625.59		
SEAARC2019	04Sep2001:10:35:00	43.0	516	625.09	4405	
SEAARC2019	04Sep2001:10:35:00	43.5	522	624.59		
SEAARC2019	04Sep2001:10:35:00	44.0	528	624.09		

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEAARC2019	04Sep2001:10:35:00	44.5	534	623.59		
SEAARC2019	04Sep2001:10:35:00	45.0	540	623.09	3646	
SEAARC2019	04Sep2001:10:35:00	45.5	546	622.59		
SEAARC2019	04Sep2001:10:35:00	46.0	552	622.09		
SEAARC2019	04Sep2001:10:35:00	46.5	558	621.59		
SEAARC2019	04Sep2001:10:35:00	47.0	564	621.09	4850	
SEAARC2019	04Sep2001:10:35:00	47.5	570	620.59		
SEAARC2019	04Sep2001:10:35:00	48.0	576	620.09		
SEAARC2019	04Sep2001:10:35:00	48.5	582	619.59		
SEAARC2019	04Sep2001:10:35:00	49.0	588	619.09	5396	
SEAARC2019	04Sep2001:10:35:00	49.5	594	618.59		
SEAARC2019	04Sep2001:10:35:00	50.0	600	618.09		
SEAARC2019	04Sep2001:10:35:00	50.5	606	617.59		
SEAARC2019	04Sep2001:10:35:00	51.0	612	617.09	8099	
SEAARC2019	04Sep2001:10:35:00	51.5	618	616.59		
SEAARC2019	04Sep2001:10:35:00	52.0	624	616.09		
SEAARC2019	04Sep2001:10:35:00	52.5	630	615.59		
SEAARC2019	04Sep2001:10:35:00	53.0	636	615.09	10093	
SEAARC2019	04Sep2001:10:35:00	53.5	642	614.59		
SEAARC2019	04Sep2001:10:35:00	54.0	648	614.09		
SEAARC2019	04Sep2001:10:35:00	54.5	654	613.59		
SEAARC2019	04Sep2001:10:35:00	55.0	660	613.09	10366	
SEACOR0000	14Aug2001:19:00:00	0.0	0	656.79	5875	
SEACOR0000	14Aug2001:19:00:00	0.5	6	656.29	9185	
SEACOR0000	14Aug2001:19:00:00	1.0	12	655.79	10196	
SEACOR0000	14Aug2001:19:00:00	1.5	18	655.29	9225	
SEACOR0000	14Aug2001:19:00:00	2.0	24	654.79	8866	
SEACOR0000	14Aug2001:19:00:00	2.5	30	654.29	10661	
SEACOR0000	14Aug2001:19:00:00	3.0	36	653.79	10669	
SEACOR0000	14Aug2001:19:00:00	3.5	42	653.29	9117	
SEACOR0000	14Aug2001:19:00:00	4.0	48	652.79	8229	8349
SEACOR0000	14Aug2001:19:00:00	4.5	54	652.29	7797	
SEACOR0000	14Aug2001:19:00:00	5.0	60	651.79	7940	
SEACOR0000	14Aug2001:19:00:00	5.5	66	651.29	6270	
SEACOR0000	14Aug2001:19:00:00	6.0	72	650.79	5684	
SEACOR0000	14Aug2001:19:00:00	6.5	78	650.29	4279	
SEACOR0000	14Aug2001:19:00:00	7.0	84	649.79	3356	
SEACOR0000	14Aug2001:19:00:00	7.5	90	649.29	2739	
SEACOR0000	14Aug2001:19:00:00	8.0	96	648.79	2297	
SEACOR0000	14Aug2001:19:00:00	8.5	102	648.29	2283	
SEACOR0000	14Aug2001:19:00:00	9.0	108	647.79	2535	
SEACOR0000	14Aug2001:19:00:00	9.5	114	647.29	3008	
SEACOR0000	14Aug2001:19:00:00	10.0	120	646.79	3510	3565
SEACOR0001	15Aug2001:18:35:00	0.0	0	639.78	10395	
SEACOR0001	15Aug2001:18:35:00	0.5	6	639.28	15419	
SEACOR0001	15Aug2001:18:35:00	1.0	12	638.78	22392	
SEACOR0001	15Aug2001:18:35:00	1.5	18	638.28	28466	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEACOR0001	15Aug2001:18:35:00	2.0	24	637.78	35002	
SEACOR0001	15Aug2001:18:35:00	2.5	30	637.28	21091	
SEACOR0001	15Aug2001:18:35:00	3.0	36	636.78	9475	
SEACOR0001	15Aug2001:18:35:00	3.5	42	636.28	6474	
SEACOR0001	15Aug2001:18:35:00	4.0	48	635.78	8363	
SEACOR0001	15Aug2001:18:35:00	4.5	54	635.28	7805	
SEACOR0001	15Aug2001:18:35:00	5.0	60	634.78	7160	6945
SEACOR0001	15Aug2001:18:35:00	5.5	66	634.28	9030	
SEACOR0001	15Aug2001:18:35:00	6.0	72	633.78	16409	
SEACOR0001	15Aug2001:18:35:00	6.5	78	633.28	16452	
SEACOR0001	15Aug2001:18:35:00	7.0	84	632.78	8953	
SEACOR0001	15Aug2001:18:35:00	7.5	90	632.28	8495	
SEACOR0001	15Aug2001:18:35:00	8.0	96	631.78	12245	
SEACOR0001	15Aug2001:18:35:00	8.5	102	631.28	9394	
SEACOR0001	15Aug2001:18:35:00	9.0	108	630.78	5199	
SEACOR0001	15Aug2001:18:35:00	9.5	114	630.28	3601	
SEACOR0001	15Aug2001:18:35:00	10.0	120	629.78	3182	3193
SEACOR0001	15Aug2001:18:35:00	10.5	126	629.28	2888	
SEACOR0001	15Aug2001:18:35:00	11.0	132	628.78	2886	
SEACOR0001	15Aug2001:18:35:00	11.5	138	628.28	4685	
SEACOR0001	15Aug2001:18:35:00	12.0	144	627.78	5703	
SEACOR0001	15Aug2001:18:35:00	12.5	150	627.28	4217	
SEACOR0001	15Aug2001:18:35:00	13.0	156	626.78	2268	
SEACOR0001	15Aug2001:18:35:00	13.5	162	626.28	1808	
SEACOR0001	15Aug2001:18:35:00	14.0	168	625.78	1670	
SEACOR0001	15Aug2001:18:35:00	14.5	174	625.28	1740	
SEACOR0001	15Aug2001:18:35:00	15.0	180	624.78	1941	1970
SEACOR0001	15Aug2001:18:35:00	15.5	186	624.28	2691	
SEACOR0001	15Aug2001:18:35:00	16.0	192	623.78	5149	
SEACOR0001	15Aug2001:18:35:00	16.5	198	623.28	8307	
SEACOR0001	15Aug2001:18:35:00	17.0	204	622.78	9191	
SEACOR0001	15Aug2001:18:35:00	17.5	210	622.28	10972	
SEACOR0001	15Aug2001:18:35:00	18.0	216	621.78	10873	
SEACOR0001	15Aug2001:18:35:00	18.5	222	621.28	8357	
SEACOR0001	15Aug2001:18:35:00	19.0	228	620.78	5322	
SEACOR0002	17Aug2001:16:48:00	0.0	0	636.41	5844	
SEACOR0002	17Aug2001:16:48:00	0.5	6	635.91	8176	
SEACOR0002	17Aug2001:16:48:00	1.0	12	635.41	11134	
SEACOR0002	17Aug2001:16:48:00	1.5	18	634.91	8924	
SEACOR0002	17Aug2001:16:48:00	2.0	24	634.41	7117	
SEACOR0002	17Aug2001:16:48:00	2.5	30	633.91	7712	
SEACOR0002	17Aug2001:16:48:00	3.0	36	633.41	7611	
SEACOR0002	17Aug2001:16:48:00	3.5	42	632.91	4999	
SEACOR0002	17Aug2001:16:48:00	4.0	48	632.41	3449	
SEACOR0002	17Aug2001:16:48:00	4.5	54	631.91	2196	
SEACOR0002	17Aug2001:16:48:00	5.0	60	631.41	1971	1984
SEACOR0002	17Aug2001:16:48:00	5.5	66	630.91	2434	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEACOR0002	17Aug2001:16:48:00	6.0	72	630.41	3098	
SEACOR0002	17Aug2001:16:48:00	6.5	78	629.91	4939	
SEACOR0002	17Aug2001:16:48:00	7.0	84	629.41	3431	
SEACOR0002	17Aug2001:16:48:00	7.5	90	628.91	2502	
SEACOR0002	17Aug2001:16:48:00	8.0	96	628.41	2223	
SEACOR0002	17Aug2001:16:48:00	8.5	102	627.91	2922	
SEACOR0002	17Aug2001:16:48:00	9.0	108	627.41	4001	
SEACOR0002	17Aug2001:16:48:00	9.5	114	626.91	4257	
SEACOR0002	17Aug2001:16:48:00	10.0	120	626.41	4799	4814
SEACOR0002	17Aug2001:16:48:00	10.5	126	625.91	4232	
SEACOR0002	17Aug2001:16:48:00	11.0	132	625.41	4227	
SEACOR0002	17Aug2001:16:48:00	11.5	138	624.91	3908	
SEACOR0002	17Aug2001:16:48:00	12.0	144	624.41	4053	
SEACOR0002	17Aug2001:16:48:00	12.5	150	623.91	4590	
SEACOR0002	17Aug2001:16:48:00	13.0	156	623.41	4087	
SEACOR0002	17Aug2001:16:48:00	13.5	162	622.91	4257	
SEACOR0002	17Aug2001:16:48:00	14.0	168	622.41	4013	
SEACOR0002	17Aug2001:16:48:00	14.5	174	621.91	4498	
SEACOR0002	17Aug2001:16:48:00	15.0	180	621.41	4102	4014
SEACOR0002	17Aug2001:16:48:00	15.5	186	620.91	3563	3448
SEACOR0003	15Aug2001:16:43:00	0.0	0	635.75	4721	
SEACOR0003	15Aug2001:16:43:00	0.5	6	635.25	5649	
SEACOR0003	15Aug2001:16:43:00	1.0	12	634.75	5435	
SEACOR0003	15Aug2001:16:43:00	1.5	18	634.25	4485	
SEACOR0003	15Aug2001:16:43:00	2.0	24	633.75	3207	
SEACOR0003	15Aug2001:16:43:00	2.5	30	633.25	2846	
SEACOR0003	15Aug2001:16:43:00	3.0	36	632.75	2687	
SEACOR0003	15Aug2001:16:43:00	3.5	42	632.25	3026	
SEACOR0003	15Aug2001:16:43:00	4.0	48	631.75	2354	
SEACOR0003	15Aug2001:16:43:00	4.5	54	631.25	2194	
SEACOR0003	15Aug2001:16:43:00	5.0	60	630.75	2270	2208
SEACOR0003	15Aug2001:16:43:00	5.5	66	630.25	2297	
SEACOR0003	15Aug2001:16:43:00	6.0	72	629.75	1832	
SEACOR0003	15Aug2001:16:43:00	6.5	78	629.25	2150	
SEACOR0003	15Aug2001:16:43:00	7.0	84	628.75	2812	
SEACOR0003	15Aug2001:16:43:00	7.5	90	628.25	3262	
SEACOR0003	15Aug2001:16:43:00	8.0	96	627.75	4263	
SEACOR0003	15Aug2001:16:43:00	8.5	102	627.25	4515	
SEACOR0003	15Aug2001:16:43:00	9.0	108	626.75	4356	
SEACOR0003	15Aug2001:16:43:00	9.5	114	626.25	4034	
SEACOR0003	15Aug2001:16:43:00	10.0	120	625.75	3656	3566
SEACOR0003	15Aug2001:16:43:00	10.5	126	625.25	2526	
SEACOR0003	15Aug2001:16:43:00	11.0	132	624.75	2150	
SEACOR0003	15Aug2001:16:43:00	11.5	138	624.25	3241	
SEACOR0003	15Aug2001:16:43:00	12.0	144	623.75	4159	
SEACOR0003	15Aug2001:16:43:00	12.5	150	623.25	4974	
SEACOR0003	15Aug2001:16:43:00	13.0	156	622.75	5657	

Exhibit D - Down-Hole Gamma Measurements

Borehole	Date and Time	Depth (ft.)	Depth (in.)	Elevation (ft.)	BHP Result (cpm)	BHP Dup. (cpm)
SEACOR0003	15Aug2001:16:43:00	13.5	162	622.25	7301	
SEACOR0003	15Aug2001:16:43:00	14.0	168	621.75	7017	
SEACOR0003	15Aug2001:16:43:00	14.5	174	621.25	5046	
SEACOR0003	15Aug2001:16:43:00	15.0	180	620.75	4420	4513
SEACOR0003	15Aug2001:16:43:00	15.5	186	620.25	5533	
SEACOR0003	15Aug2001:16:43:00	16.0	192	619.75	6707	
SEACOR0003	15Aug2001:16:43:00	16.5	198	619.25	6694	
SEACOR0003	15Aug2001:16:43:00	17.0	204	618.75	6727	
SEACOR0003	15Aug2001:16:43:00	17.5	210	618.25	6407	
SEACOR0003	15Aug2001:16:43:00	18.0	216	617.75	5822	
SEACOR0003	15Aug2001:16:43:00	18.5	222	617.25	4139	
SEACOR0003	15Aug2001:16:43:00	19.0	228	616.75	3088	
SEACOR0003	15Aug2001:16:43:00	19.5	234	616.25	3097	
SEACOR0003	15Aug2001:16:43:00	20.0	240	615.75	4013	4106
SEACOR0003	15Aug2001:16:43:00	20.5	246	615.25	4047	
SEACOR0003	15Aug2001:16:43:00	21.0	252	614.75	5675	
SEACOR0003	15Aug2001:16:43:00	21.5	258	614.25	6067	
SEACOR0003	15Aug2001:16:43:00	22.0	264	613.75	6489	
SEACOR0003	15Aug2001:16:43:00	22.5	270	613.25	8302	
SEACOR0003	15Aug2001:16:43:00	23.0	276	612.75	9974	
SEACOR0003	15Aug2001:16:43:00	23.5	282	612.25	10003	
SEACOR0003	15Aug2001:16:43:00	24.0	288	611.75	9975	9634

EXHIBIT E

ON-SITE GAMMA SPECTROMETRY MEASUREMENTS

EXHIBIT E

ON-SITE GAMMA SPECTROMETRY MEASUREMENTS

Exhibit E presents on-site analytical data from the 2001 Seaway investigation as measured using a Broad-Energy Germanium (BEGe) detector. Thirteen columns of information are presented including radionuclide-specific results for each sample and validation information. Entrees under each column are described in more detail below:

1. Sample ID – The sample identification number for laboratory quality assurance samples (Pages 1 through 4) and field samples (pages 5 through 60).
2. Type – The sample type where BLK = laboratory blank, LCS = laboratory control sample, REG for regular sample, and DUP for duplicate sample.
3. Analyte – The radionuclide whose concentrations are reported.
4. Result – The concentration in pCi/g reported by the BEGe.
5. Error – The measurement error; the BEGe software was not specifically programmed to report a value for undetected (U-flagged) results, although errors are sometime still provided.
6. MDA – The minimum detectable activity as calculated by the BEGe software.
7. Units – The measurement units for each analyte; pCi/g for all but LCS samples which are reported as a percentage.
8. Method – The analytical method; "GSS" for BEGe measurements.
9. Lab Qualifier – Data qualifier assigned by the field laboratory; "U" if the result is less than the error or MDA, "*" indicates poor duplicate results, or blank if no qualifier is necessary.
10. Validation Qualifier – Data qualifier assigned during the data validation process. Qualifiers are "=" for detected values, "U" for undetected, "J" for estimated, or "UJ" for undetected and estimated. Quality assurance samples (e.g., blanks) were not assigned qualifiers.
11. Reason Code – The reason why a validation qualifier of "J", "U", or "UJ" was assigned. Reason codes are as follows:
    - J01 – Duplicate RPD/radiological duplicate error ration (DER) was outside the control limit.
    - T04 – Professional judgment was used to qualify the data.
    - T05 – Analytical result is less than the associated MDA, but greater than the counting uncertainty.
    - T06 – Analytical result is less than both the associated counting uncertainty and MDA.
12. RPD – The relative percent difference between regular and corresponding duplicate results. Used if regular and duplicate sample results were both greater than five times the respective MDAs. Otherwise the normalized absolute difference was used.
13. NAD – The normalized absolute difference . Used if regular and/or duplicate sample results were less than five times the respective MDAs. "OK" indicates that RPD is used.

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
01SEA001BLK	BLK	Ac-227	0.03		0.21	pCi/g	GSS	U				
01SEA001BLK	BLK	Am-241	0.01		0.06	pCi/g	GSS	U				
01SEA001BLK	BLK	Cs-137	0.01		0.06	pCi/g	GSS	U				
01SEA001BLK	BLK	K-40	-0.31	0.72	1.28	pCi/g	GSS	U				
01SEA001BLK	BLK	Pa-231	0.76		1.29	pCi/g	GSS	U				
01SEA001BLK	BLK	Ra-226	0.11		0.09	pCi/g	GSS	U				
01SEA001BLK	BLK	RA-228	-0.04		0.17	pCi/g	GSS	U				
01SEA001BLK	BLK	TH-228	-0.04		0.17	pCi/g	GSS	U				
01SEA001BLK	BLK	Th-230	2.32		5.24	pCi/g	GSS	U				
01SEA001BLK	BLK	TH-232	-0.04		0.17	pCi/g	GSS	U				
01SEA001BLK	BLK	U-235	0.00		0.16	pCi/g	GSS	U				
01SEA001BLK	BLK	U-238	0.56		0.61	pCi/g	GSS	U				
01SEA001LCS	LCS	AM-241	91			%	GSS					
01SEA001LCS	LCS	CS-137	94			%	GSS					
01SEA002BLK	BLK	Ac-227	0.09		0.23	pCi/g	GSS	U				
01SEA002BLK	BLK	Am-241	0.02		0.07	pCi/g	GSS	U				
01SEA002BLK	BLK	Cs-137	0.57		0.08	pCi/g	GSS	U				
01SEA002BLK	BLK	K-40	-0.25	0.74	1.29	pCi/g	GSS	U*				
01SEA002BLK	BLK	Pa-231	1.12		1.42	pCi/g	GSS	U				
01SEA002BLK	BLK	Ra-226	0.07		0.11	pCi/g	GSS	U				
01SEA002BLK	BLK	RA-228	-0.03		0.19	pCi/g	GSS	U				
01SEA002BLK	BLK	TH-228	-0.03		0.19	pCi/g	GSS	U				
01SEA002BLK	BLK	Th-230	3.65		5.55	pCi/g	GSS	U				
01SEA002BLK	BLK	TH-232	-0.03		0.19	pCi/g	GSS	U				
01SEA002BLK	BLK	U-235	-0.14		0.16	pCi/g	GSS	U				
01SEA002BLK	BLK	U-238	0.47		0.60	pCi/g	GSS	U*				
01SEA002LCS	LCS	AM-241	98			%	GSS					
01SEA002LCS	LCS	CS-137	100			%	GSS					
01SEA003BLK	BLK	Ac-227	-0.16		0.22	pCi/g	GSS	U				
01SEA003BLK	BLK	Am-241	-0.01		0.11	pCi/g	GSS	U				
01SEA003BLK	BLK	Cs-137	-0.08		0.07	pCi/g	GSS	U				
01SEA003BLK	BLK	K-40	-1.13	0.64	1.25	pCi/g	GSS	U				
01SEA003BLK	BLK	Pa-231	-0.06		1.20	pCi/g	GSS	U				
01SEA003BLK	BLK	Ra-226	0.05		0.10	pCi/g	GSS	U				
01SEA003BLK	BLK	RA-228	-0.01		0.21	pCi/g	GSS	U				

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
01SEA003BLK	BLK	TH-228	-0.01		0.21	pCi/g	GSS	U				
01SEA003BLK	BLK	Th-230	3.23		8.35	pCi/g	GSS	U				
01SEA003BLK	BLK	TH-232	-0.01		0.21	pCi/g	GSS	U				
01SEA003BLK	BLK	U-235	0.01		0.17	pCi/g	GSS	U				
01SEA003BLK	BLK	U-238	0.02		0.89	pCi/g	GSS	U				
01SEA003LCS	LCS	AM-241	95			%	GSS					
01SEA003LCS	LCS	CS-137	100			%	GSS					
01SEA004BLK	BLK	Ac-227	0.15		0.21	pCi/g	GSS	U				
01SEA004BLK	BLK	Am-241	0.00		0.06	pCi/g	GSS	U				
01SEA004BLK	BLK	Cs-137	0.04		0.08	pCi/g	GSS	U				
01SEA004BLK	BLK	K-40	-0.16	0.72	1.26	pCi/g	GSS	U				
01SEA004BLK	BLK	Pa-231	-0.10		1.26	pCi/g	GSS	U				
01SEA004BLK	BLK	Ra-226	-0.05		0.09	pCi/g	GSS	U				
01SEA004BLK	BLK	RA-228	0.00		0.18	pCi/g	GSS	U				
01SEA004BLK	BLK	TH-228	0.00		0.18	pCi/g	GSS	U				
01SEA004BLK	BLK	Th-230	-0.10		5.50	pCi/g	GSS	U				
01SEA004BLK	BLK	TH-232	0.00		0.18	pCi/g	GSS	U				
01SEA004BLK	BLK	U-235	-0.01		0.16	pCi/g	GSS	U				
01SEA004BLK	BLK	U-238	0.17		0.61	pCi/g	GSS	U				
01SEA004LCS	LCS	AM-241	91			%	GSS					
01SEA004LCS	LCS	CS-137	92			%	GSS					
01SEA005BLK	BLK	Ac-227	0.08		0.29	pCi/g	GSS	U				
01SEA005BLK	BLK	Am-241	-0.01		0.07	pCi/g	GSS	U				
01SEA005BLK	BLK	Cs-137	-0.06		0.09	pCi/g	GSS	U				
01SEA005BLK	BLK	K-40	-0.04	0.87	1.51	pCi/g	GSS	U				
01SEA005BLK	BLK	Pa-231	0.02		1.63	pCi/g	GSS	U				
01SEA005BLK	BLK	Ra-226	0.01		0.12	pCi/g	GSS	U				
01SEA005BLK	BLK	RA-228	0.12		0.26	pCi/g	GSS	U				
01SEA005BLK	BLK	TH-228	0.12		0.26	pCi/g	GSS	U				
01SEA005BLK	BLK	Th-230	3.81		7.00	pCi/g	GSS	U				
01SEA005BLK	BLK	TH-232	0.12		0.26	pCi/g	GSS	U				
01SEA005BLK	BLK	U-235	0.02		0.22	pCi/g	GSS	U				
01SEA005BLK	BLK	U-238	0.28		0.74	pCi/g	GSS	U				
01SEA005LCS	LCS	AM-241	99			%	GSS					
01SEA005LCS	LCS	CS-137	103			%	GSS					

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
01SEA006BLK	BLK	Ac-227	-0.05		0.21	pCi/g	GSS	U				
01SEA006BLK	BLK	Am-241	0.03		0.06	pCi/g	GSS	U				
01SEA006BLK	BLK	Cs-137	0.06		0.07	pCi/g	GSS	U				
01SEA006BLK	BLK	K-40	-0.22	0.73	1.28	pCi/g	GSS	U				
01SEA006BLK	BLK	Pa-231	-1.07		1.17	pCi/g	GSS	U				
01SEA006BLK	BLK	Ra-226	0.06		0.09	pCi/g	GSS	U				
01SEA006BLK	BLK	RA-228	0.00		0.16	pCi/g	GSS	U				
01SEA006BLK	BLK	TH-228	0.00		0.16	pCi/g	GSS	U				
01SEA006BLK	BLK	Th-230	-2.09		5.50	pCi/g	GSS	U				
01SEA006BLK	BLK	TH-232	0.00		0.16	pCi/g	GSS	U				
01SEA006BLK	BLK	U-235	-0.02		0.16	pCi/g	GSS	U*				
01SEA006BLK	BLK	U-238	-0.02		0.57	pCi/g	GSS	U*				
01SEA006LCS	LCS	AM-241	91			%	GSS					
01SEA006LCS	LCS	CS-137	94			%	GSS					
01SEA007BLK	BLK	Ac-227	0.25		0.24	pCi/g	GSS	U				
01SEA007BLK	BLK	Am-241	-0.05		0.06	pCi/g	GSS	U				
01SEA007BLK	BLK	Cs-137	0.03		0.07	pCi/g	GSS	U				
01SEA007BLK	BLK	K-40	-0.50	0.71	1.28	pCi/g	GSS	U				
01SEA007BLK	BLK	Pa-231	0.43		1.25	pCi/g	GSS	U				
01SEA007BLK	BLK	Ra-226	0.05		0.09	pCi/g	GSS	U				
01SEA007BLK	BLK	RA-228	0.14		0.20	pCi/g	GSS	U				
01SEA007BLK	BLK	TH-228	0.14		0.20	pCi/g	GSS	U				
01SEA007BLK	BLK	Th-230	0.51		5.50	pCi/g	GSS	U				
01SEA007BLK	BLK	TH-232	0.14		0.20	pCi/g	GSS	U				
01SEA007BLK	BLK	U-235	0.05		0.16	pCi/g	GSS	U				
01SEA007BLK	BLK	U-238	-0.14		0.63	pCi/g	GSS	U				
01SEA007LCS	LCS	AM-241	104.44			%	GSS					
01SEA007LCS	LCS	CS-137	109.56			%	GSS					
01SEA008BLK	BLK	Ac-227	-0.11		0.21	pCi/g	GSS	U				
01SEA008BLK	BLK	Am-241	0.04		0.06	pCi/g	GSS	U				
01SEA008BLK	BLK	Cs-137	0.03		0.07	pCi/g	GSS	U				
01SEA008BLK	BLK	K-40	-0.10	0.74	1.28	pCi/g	GSS	U				
01SEA008BLK	BLK	Pa-231	0.08		1.32	pCi/g	GSS	U				
01SEA008BLK	BLK	Ra-226	0.01		0.09	pCi/g	GSS	U				
01SEA008BLK	BLK	RA-228	0.16		0.20	pCi/g	GSS	U				

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
01SEA008BLK	BLK	TH-228	0.16		0.20	pCi/g	GSS	U				
01SEA008BLK	BLK	Th-230	-0.70		5.60	pCi/g	GSS	U				
01SEA008BLK	BLK	TH-232	0.16		0.20	pCi/g	GSS	U				
01SEA008BLK	BLK	U-235	0.07		0.16	pCi/g	GSS	U				
01SEA008BLK	BLK	U-238	0.10		0.61	pCi/g	GSS	U				
01SEA008LCS	LCS	AM-241	95			%	GSS					
01SEA008LCS	LCS	CS-137	100			%	GSS					
01SEA009BLK	BLK	Ac-227	0.11		0.22	pCi/g	GSS	U				
01SEA009BLK	BLK	Am-241	-0.02		0.06	pCi/g	GSS	U				
01SEA009BLK	BLK	Cs-137	0.05		0.07	pCi/g	GSS	U				
01SEA009BLK	BLK	K-40	-1.05	0.64	1.26	pCi/g	GSS	U				
01SEA009BLK	BLK	Pa-231	0.86		1.45	pCi/g	GSS	U				
01SEA009BLK	BLK	Ra-226	-0.09		0.08	pCi/g	GSS	U				
01SEA009BLK	BLK	RA-228	0.06		0.18	pCi/g	GSS	U				
01SEA009BLK	BLK	TH-228	0.06		0.18	pCi/g	GSS	U				
01SEA009BLK	BLK	Th-230	4.32		6.16	pCi/g	GSS	U				
01SEA009BLK	BLK	TH-232	0.06		0.18	pCi/g	GSS	U				
01SEA009BLK	BLK	U-235	0.02		0.16	pCi/g	GSS	U				
01SEA009BLK	BLK	U-238	0.25		0.66	pCi/g	GSS	U				
01SEA009LCS	LCS	AM-241	94			%	GSS					
01SEA009LCS	LCS	CS-137	97			%	GSS					
01SEA010BLK	BLK	Ac-227	0.09		0.15	pCi/g	GSS	U				
01SEA010BLK	BLK	Am-241	0.00		0.04	pCi/g	GSS	U				
01SEA010BLK	BLK	Cs-137	0.02		0.05	pCi/g	GSS	U				
01SEA010BLK	BLK	K-40	-0.23	0.52	0.92	pCi/g	GSS	U				
01SEA010BLK	BLK	Pa-231	-0.41		0.90	pCi/g	GSS	U				
01SEA010BLK	BLK	Ra-226	0.05		0.06	pCi/g	GSS	U				
01SEA010BLK	BLK	RA-228	-0.01		0.12	pCi/g	GSS	U				
01SEA010BLK	BLK	TH-228	-0.01		0.12	pCi/g	GSS	U				
01SEA010BLK	BLK	Th-230	-0.68		3.69	pCi/g	GSS	U				
01SEA010BLK	BLK	TH-232	-0.01		0.12	pCi/g	GSS	U				
01SEA010BLK	BLK	U-235	-0.05		0.11	pCi/g	GSS	U				
01SEA010BLK	BLK	U-238	0.01		0.39	pCi/g	GSS	U				
01SEA010LCS	LCS	AM-241	92			%	GSS					
01SEA010LCS	LCS	CS-137	97			%	GSS					

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1001SS060180	REG	Ac-227	-0.31		0.76	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS060180	REG	Am-241	-0.03		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS060180	REG	Cs-137	0.06	0.03	0.07	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS060180	REG	K-40	12.33	1.88	1.85	pCi/g	GSS	*	=			
SEAARA1001SS060180	REG	Pa-231	2.82		2.73	pCi/g	GSS	U	U	T04		
SEAARA1001SS060180	REG	Ra-226	0.80	0.07	0.10	pCi/g	GSS		=			
SEAARA1001SS060180	REG	RA-228	0.83	0.10	0.17	pCi/g	GSS		=			
SEAARA1001SS060180	REG	TH-228	0.83	0.10	0.17	pCi/g	GSS		=			
SEAARA1001SS060180	REG	Th-230	1.15		15.00	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS060180	REG	TH-232	0.83	0.10	0.17	pCi/g	GSS		=			
SEAARA1001SS060180	REG	U-235	0.43		0.40	pCi/g	GSS	U	U	T04		
SEAARA1001SS060180	REG	U-238	1.64	0.49	0.95	pCi/g	GSS	*	J	J01		
SEAARA1001SS061140	REG	Ac-227	-0.17		0.91	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS061140	REG	Am-241	-0.08		0.19	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS061140	REG	Cs-137	0.16		0.16	pCi/g	GSS	U	U	T04		
SEAARA1001SS061140	REG	K-40	15.48	2.14	1.79	pCi/g	GSS	*	=			
SEAARA1001SS061140	REG	Pa-231	-0.41		2.92	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS061140	REG	Ra-226	0.58	0.07	0.11	pCi/g	GSS		=			
SEAARA1001SS061140	REG	RA-228	0.93	0.12	0.15	pCi/g	GSS		=			
SEAARA1001SS061140	REG	TH-228	0.93	0.12	0.15	pCi/g	GSS		=			
SEAARA1001SS061140	REG	Th-230	4.71		18.10	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS061140	REG	TH-232	0.93	0.12	0.15	pCi/g	GSS		=			
SEAARA1001SS061140	REG	U-235	0.32		0.49	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS061140	REG	U-238	-0.42		1.92	pCi/g	GSS	U*	UJ	T04, T06		
SEAARA1001SS081200	REG	Ac-227	-0.33		0.83	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS081200	REG	Am-241	-0.01		0.17	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS081200	REG	Cs-137	0.16	0.05	0.06	pCi/g	GSS		=			
SEAARA1001SS081200	REG	K-40	16.78	2.04	1.50	pCi/g	GSS	*	=			
SEAARA1001SS081200	REG	Pa-231	0.67		2.70	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS081200	REG	Ra-226	0.67	0.07	0.10	pCi/g	GSS		=			
SEAARA1001SS081200	REG	RA-228	0.69	0.10	0.16	pCi/g	GSS		=			
SEAARA1001SS081200	REG	TH-228	0.69	0.10	0.16	pCi/g	GSS		=			
SEAARA1001SS081200	REG	Th-230	20.70		17.40	pCi/g	GSS	U	U	T04		
SEAARA1001SS081200	REG	TH-232	0.69	0.10	0.16	pCi/g	GSS		=			
SEAARA1001SS081200	REG	U-235	0.12		0.44	pCi/g	GSS	U	U	T04, T05		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1001SS081200	REG	U-238	0.72		1.84	pCi/g	GSS	U*	U	T04, T05		
SEAARA1001SS140140	REG	Ac-227	-0.21		0.97	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS140140	REG	Am-241	0.04		0.21	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140140	REG	Cs-137	0.09	0.05	0.08	pCi/g	GSS		=			
SEAARA1001SS140140	REG	K-40	10.42	2.09	2.30	pCi/g	GSS	*	=			
SEAARA1001SS140140	REG	Pa-231	2.24		3.38	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140140	REG	Ra-226	0.69	0.08	0.13	pCi/g	GSS		=			
SEAARA1001SS140140	REG	RA-228	0.70	0.12	0.18	pCi/g	GSS		=			
SEAARA1001SS140140	REG	TH-228	0.70	0.12	0.18	pCi/g	GSS		=			
SEAARA1001SS140140	REG	Th-230	-9.31		19.50	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS140140	REG	TH-232	0.70	0.12	0.18	pCi/g	GSS		=			
SEAARA1001SS140140	REG	U-235	0.10		0.50	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140140	REG	U-238	1.07	0.60	1.17	pCi/g	GSS	U*	U	T05		
SEAARA1001SS140280	REG	Ac-227	-0.13		0.92	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS140280	REG	Am-241	0.13		0.20	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140280	REG	Cs-137	0.10		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140280	REG	K-40	13.72	2.11	1.91	pCi/g	GSS	*	=			
SEAARA1001SS140280	REG	Pa-231	0.32		2.91	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140280	REG	Ra-226	0.80	0.08	0.12	pCi/g	GSS		=			
SEAARA1001SS140280	REG	RA-228	0.77	0.12	0.17	pCi/g	GSS		=			
SEAARA1001SS140280	REG	TH-228	0.77	0.12	0.17	pCi/g	GSS		=			
SEAARA1001SS140280	REG	Th-230	6.26		18.10	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140280	REG	TH-232	0.77	0.12	0.17	pCi/g	GSS		=			
SEAARA1001SS140280	REG	U-235	0.01		0.47	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS140280	REG	U-238	1.32	0.56	1.08	pCi/g	GSS	*	J	J01		
SEAARA1001SS141100	REG	Ac-227	0.10		0.97	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS141100	REG	Am-241	-0.20		0.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS141100	REG	Cs-137	0.13		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS141100	REG	K-40	8.20	1.90	2.21	pCi/g	GSS	*	=			
SEAARA1001SS141100	REG	Pa-231	-0.48		3.26	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS141100	REG	Ra-226	1.02	0.10	0.12	pCi/g	GSS		=			
SEAARA1001SS141100	REG	RA-228	0.79	0.13	0.19	pCi/g	GSS		=			
SEAARA1001SS141100	REG	TH-228	0.79	0.13	0.19	pCi/g	GSS		=			
SEAARA1001SS141100	REG	Th-230	10.42	5.72	12.40	pCi/g	GSS	U	U	T05		
SEAARA1001SS141100	REG	TH-232	0.79	0.13	0.19	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1001SS141100	REG	U-235	-0.31		0.55	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS141100	REG	U-238	2.11	0.71	1.28	pCi/g	GSS	*	J	J01		
SEAARA1001SS162300	REG	Ac-227	-0.10		0.91	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS162300	REG	Am-241	-0.13		0.17	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS162300	REG	Cs-137	0.09	0.04	0.07	pCi/g	GSS		=			
SEAARA1001SS162300	REG	K-40	11.71	1.98	1.96	pCi/g	GSS	*	=			
SEAARA1001SS162300	REG	Pa-231	-1.10		2.86	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS162300	REG	Ra-226	0.80	0.08	0.11	pCi/g	GSS		=			
SEAARA1001SS162300	REG	RA-228	0.76	0.12	0.18	pCi/g	GSS		=			
SEAARA1001SS162300	REG	TH-228	0.76	0.12	0.18	pCi/g	GSS		=			
SEAARA1001SS162300	REG	Th-230	7.96		19.10	pCi/g	GSS	U	U	T04, T05		
SEAARA1001SS162300	REG	TH-232	0.76	0.12	0.18	pCi/g	GSS		=			
SEAARA1001SS162300	REG	U-235	-0.27		0.48	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1001SS162300	REG	U-238	1.39	0.62	1.07	pCi/g	GSS	*	J	J01		
SEAARA1002SS060080	REG	Ac-227	1.63	0.27	0.40	pCi/g	GSS		=			
SEAARA1002SS060080	REG	Am-241	0.20		0.26	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS060080	REG	Cs-137	0.01		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS060080	REG	K-40	9.35	1.65	1.67	pCi/g	GSS		=			
SEAARA1002SS060080	REG	Pa-231	1.58	0.96	1.99	pCi/g	GSS	U	U	T05		
SEAARA1002SS060080	REG	Ra-226	2.78	0.17	0.13	pCi/g	GSS		=			
SEAARA1002SS060080	REG	RA-228	0.88	0.12	0.19	pCi/g	GSS		=			
SEAARA1002SS060080	REG	TH-228	0.88	0.12	0.19	pCi/g	GSS		=			
SEAARA1002SS060080	REG	Th-230	56.46	10.93	16.00	pCi/g	GSS		=			
SEAARA1002SS060080	REG	TH-232	0.88	0.12	0.19	pCi/g	GSS		=			
SEAARA1002SS060080	REG	U-235	0.48		0.73	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS060080	REG	U-238	5.03	0.97	1.65	pCi/g	GSS		=			
SEAARA1002SS060180	REG	Ac-227	6.55	0.60	0.76	pCi/g	GSS		=			
SEAARA1002SS060180	REG	Am-241	0.03		0.52	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS060180	REG	Cs-137	0.08	0.06	0.12	pCi/g	GSS	U	U	T05		
SEAARA1002SS060180	REG	K-40	13.76	2.13	2.18	pCi/g	GSS		=			
SEAARA1002SS060180	REG	Pa-231	8.25	1.66	3.76	pCi/g	GSS		=			
SEAARA1002SS060180	REG	Ra-226	13.39	0.64	0.23	pCi/g	GSS		=			
SEAARA1002SS060180	REG	RA-228	1.04	0.16	0.34	pCi/g	GSS		=			
SEAARA1002SS060180	REG	TH-228	1.04	0.16	0.34	pCi/g	GSS		=			
SEAARA1002SS060180	REG	Th-230	195.54	23.99	30.90	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1002SS060180	REG	TH-232	1.04	0.16	0.34	pCi/g	GSS		=			
SEAARA1002SS060180	REG	U-235	3.76		1.42	pCi/g	GSS	U	U	T04		
SEAARA1002SS060180	REG	U-238	12.52	1.89	3.19	pCi/g	GSS		=			
SEAARA1002SS121320	REG	Ac-227	0.26	0.09	0.20	pCi/g	GSS		=			
SEAARA1002SS121320	REG	Am-241	0.00		0.12	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1002SS121320	REG	Cs-137	0.09		0.08	pCi/g	GSS	U	U	T04		
SEAARA1002SS121320	REG	K-40	4.84	1.05	1.26	pCi/g	GSS		=			
SEAARA1002SS121320	REG	Pa-231	0.90		1.79	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS121320	REG	Ra-226	0.83	0.06	0.07	pCi/g	GSS		=			
SEAARA1002SS121320	REG	RA-228	0.39	0.06	0.10	pCi/g	GSS		=			
SEAARA1002SS121320	REG	TH-228	0.39	0.06	0.10	pCi/g	GSS		=			
SEAARA1002SS121320	REG	Th-230	6.57	3.29	6.93	pCi/g	GSS	U	U	T05		
SEAARA1002SS121320	REG	TH-232	0.39	0.06	0.10	pCi/g	GSS		=			
SEAARA1002SS121320	REG	U-235	0.39		0.32	pCi/g	GSS	U	U	T04		
SEAARA1002SS121320	REG	U-238	2.23	0.45	0.72	pCi/g	GSS		=			
SEAARA1002SS121980	REG	Ac-227	0.34	0.10	0.25	pCi/g	GSS		=			
SEAARA1002SS121980	REG	Am-241	0.17		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS121980	REG	Cs-137	0.07	0.03	0.05	pCi/g	GSS		=			
SEAARA1002SS121980	REG	K-40	3.24	1.01	1.31	pCi/g	GSS		=			
SEAARA1002SS121980	REG	Pa-231	2.24		2.52	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS121980	REG	Ra-226	1.07	0.08	0.09	pCi/g	GSS		=			
SEAARA1002SS121980	REG	RA-228	0.42	0.07	0.13	pCi/g	GSS		=			
SEAARA1002SS121980	REG	TH-228	0.42	0.07	0.13	pCi/g	GSS		=			
SEAARA1002SS121980	REG	Th-230	10.81	4.62	9.32	pCi/g	GSS		=			
SEAARA1002SS121980	REG	TH-232	0.42	0.07	0.13	pCi/g	GSS		=			
SEAARA1002SS121980	REG	U-235	0.37		0.43	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS121980	REG	U-238	2.04	0.56	0.97	pCi/g	GSS		=			
SEAARA1002SS122640	REG	Ac-227	-0.41		1.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1002SS122640	REG	Am-241	0.00		0.22	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS122640	REG	Cs-137	0.90		0.16	pCi/g	GSS	U	U	T04		
SEAARA1002SS122640	REG	K-40	7.38	1.62	1.86	pCi/g	GSS		=			
SEAARA1002SS122640	REG	Pa-231	2.55		3.54	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS122640	REG	Ra-226	1.50	0.12	0.13	pCi/g	GSS		=			
SEAARA1002SS122640	REG	RA-228	1.33	0.15	0.20	pCi/g	GSS		=			
SEAARA1002SS122640	REG	TH-228	1.33	0.15	0.20	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1002SS122640	REG	Th-230	-0.13		21.60	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1002SS122640	REG	TH-232	1.33	0.15	0.20	pCi/g	GSS		=			
SEAARA1002SS122640	REG	U-235	0.10		0.55	pCi/g	GSS	U	U	T04, T05		
SEAARA1002SS122640	REG	U-238	1.82	0.65	1.25	pCi/g	GSS		=			
SEAARA1003SS060120	DUP	Ac-227	0.04		0.95	pCi/g	GSS	U			NC	
SEAARA1003SS060120	DUP	Am-241	-0.08		0.19	pCi/g	GSS	U			NC	
SEAARA1003SS060120	DUP	Cs-137	0.06	0.04	0.07	pCi/g	GSS	U			NC	
SEAARA1003SS060120	DUP	K-40	13.68	2.10	1.91	pCi/g	GSS				16.7%	
SEAARA1003SS060120	DUP	Pa-231	0.21		3.23	pCi/g	GSS	U			NC	
SEAARA1003SS060120	DUP	Ra-226	0.83	0.08	0.12	pCi/g	GSS				7.1%	
SEAARA1003SS060120	DUP	RA-228	0.83	0.12	0.18	pCi/g	GSS				11.0%	
SEAARA1003SS060120	DUP	TH-228	0.83	0.12	0.18	pCi/g	GSS				11.0%	
SEAARA1003SS060120	DUP	Th-230	-5.76		20.10	pCi/g	GSS	U			NC	
SEAARA1003SS060120	DUP	TH-232	0.83	0.12	0.18	pCi/g	GSS				11.0%	
SEAARA1003SS060120	DUP	U-235	0.16		0.52	pCi/g	GSS	U			NC	
SEAARA1003SS060120	DUP	U-238	2.10	0.66	1.21	pCi/g	GSS				33.0%	
SEAARA1003SS060120	REG	Ac-227	-0.37		1.02	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS060120	REG	Am-241	0.13		0.22	pCi/g	GSS	U	U	T04, T05		
SEAARA1003SS060120	REG	Cs-137	0.06		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARA1003SS060120	REG	K-40	16.18	2.35	1.88	pCi/g	GSS		=			
SEAARA1003SS060120	REG	Pa-231	-0.12		3.22	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS060120	REG	Ra-226	0.89	0.09	0.12	pCi/g	GSS		=			
SEAARA1003SS060120	REG	RA-228	0.92	0.13	0.21	pCi/g	GSS		=			
SEAARA1003SS060120	REG	TH-228	0.92	0.13	0.21	pCi/g	GSS		=			
SEAARA1003SS060120	REG	Th-230	-3.67		20.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS060120	REG	TH-232	0.92	0.13	0.21	pCi/g	GSS		=			
SEAARA1003SS060120	REG	U-235	0.11		0.54	pCi/g	GSS	U	U	T04, T05		
SEAARA1003SS060120	REG	U-238	1.51	0.65	1.19	pCi/g	GSS		=			
SEAARA1003SS120240	REG	Ac-227	-0.48		1.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS120240	REG	Am-241	0.00		0.23	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS120240	REG	Cs-137	0.07	0.05	0.09	pCi/g	GSS	U	U	T05		
SEAARA1003SS120240	REG	K-40	14.46	2.51	2.39	pCi/g	GSS		=			
SEAARA1003SS120240	REG	Pa-231	0.91		3.84	pCi/g	GSS	U	U	T04, T05		
SEAARA1003SS120240	REG	Ra-226	0.77	0.09	0.14	pCi/g	GSS		=			
SEAARA1003SS120240	REG	RA-228	0.87	0.15	0.21	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1003SS120240	REG	TH-228	0.87	0.15	0.21	pCi/g	GSS		=			
SEAARA1003SS120240	REG	Th-230	17.23		23.00	pCi/g	GSS	U	U	T04, T05		
SEAARA1003SS120240	REG	TH-232	0.87	0.15	0.21	pCi/g	GSS		=			
SEAARA1003SS120240	REG	U-235	-0.18		0.59	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS120240	REG	U-238	1.90	0.74	1.40	pCi/g	GSS		=			
SEAARA1003SS241920	REG	Ac-227	-0.22		0.56	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS241920	REG	Am-241	-0.06		0.12	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS241920	REG	Cs-137	0.05	0.02	0.04	pCi/g	GSS		=			
SEAARA1003SS241920	REG	K-40	8.08	1.17	1.20	pCi/g	GSS		=			
SEAARA1003SS241920	REG	Pa-231	2.38		1.90	pCi/g	GSS	U	U	T04		
SEAARA1003SS241920	REG	Ra-226	0.80	0.06	0.07	pCi/g	GSS		=			
SEAARA1003SS241920	REG	RA-228	0.73	0.08	0.11	pCi/g	GSS		=			
SEAARA1003SS241920	REG	TH-228	0.73	0.08	0.11	pCi/g	GSS		=			
SEAARA1003SS241920	REG	Th-230	-6.00		11.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS241920	REG	TH-232	0.73	0.08	0.11	pCi/g	GSS		=			
SEAARA1003SS241920	REG	U-235	-0.05		0.31	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1003SS241920	REG	U-238	1.41	0.37	0.70	pCi/g	GSS		=			
SEAARA1004SS060080	REG	Ac-227	23.25	2.84	1.12	pCi/g	GSS		=			
SEAARA1004SS060080	REG	Am-241	-0.66		0.83	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1004SS060080	REG	Cs-137	0.09	0.14	0.15	pCi/g	GSS	U	U	T05		
SEAARA1004SS060080	REG	K-40	13.55	4.39	2.59	pCi/g	GSS	*	=			
SEAARA1004SS060080	REG	Pa-231	21.88	9.21	5.37	pCi/g	GSS		=			
SEAARA1004SS060080	REG	Ra-226	23.76	2.08	0.29	pCi/g	GSS		=			
SEAARA1004SS060080	REG	RA-228	1.16	0.37	0.45	pCi/g	GSS		=			
SEAARA1004SS060080	REG	TH-228	1.16	0.37	0.45	pCi/g	GSS		=			
SEAARA1004SS060080	REG	Th-230	776.74	#####	50.30	pCi/g	GSS		=			
SEAARA1004SS060080	REG	TH-232	1.16	0.37	0.45	pCi/g	GSS		=			
SEAARA1004SS060080	REG	U-235	6.14	1.25	1.23	pCi/g	GSS		=			
SEAARA1004SS060080	REG	U-238	52.38	10.19	5.25	pCi/g	GSS	*	J	J01		
SEAARA1004SS060140	REG	Ac-227	11.34	0.85	0.84	pCi/g	GSS		=			
SEAARA1004SS060140	REG	Am-241	-0.23		0.62	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1004SS060140	REG	Cs-137	0.08	0.06	0.12	pCi/g	GSS	U	U	T05		
SEAARA1004SS060140	REG	K-40	12.29	2.08	2.27	pCi/g	GSS	*	=			
SEAARA1004SS060140	REG	Pa-231	13.25	2.72	4.14	pCi/g	GSS		=			
SEAARA1004SS060140	REG	Ra-226	15.06	0.70	0.25	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1004SS060140	REG	RA-228	0.96	0.16	0.35	pCi/g	GSS		=			
SEAARA1004SS060140	REG	TH-228	0.96	0.16	0.35	pCi/g	GSS		=			
SEAARA1004SS060140	REG	Th-230	379.07	38.66	37.80	pCi/g	GSS		=			
SEAARA1004SS060140	REG	TH-232	0.96	0.16	0.35	pCi/g	GSS		=			
SEAARA1004SS060140	REG	U-235	3.85	0.45	0.92	pCi/g	GSS		=			
SEAARA1004SS060140	REG	U-238	30.82	3.93	3.92	pCi/g	GSS	*	J	J01		
SEAARA1004SS061500	REG	Ac-227	-0.14		1.02	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1004SS061500	REG	Am-241	0.06		0.21	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS061500	REG	Cs-137	0.11		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS061500	REG	K-40	14.78	2.16	1.83	pCi/g	GSS	*	=			
SEAARA1004SS061500	REG	Pa-231	1.93		3.32	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS061500	REG	Ra-226	0.81	0.08	0.12	pCi/g	GSS		=			
SEAARA1004SS061500	REG	RA-228	0.89	0.13	0.18	pCi/g	GSS		=			
SEAARA1004SS061500	REG	TH-228	0.89	0.13	0.18	pCi/g	GSS		=			
SEAARA1004SS061500	REG	Th-230	15.96		20.30	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS061500	REG	TH-232	0.89	0.13	0.18	pCi/g	GSS		=			
SEAARA1004SS061500	REG	U-235	-0.17		0.53	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1004SS061500	REG	U-238	1.12	0.59	1.18	pCi/g	GSS	U*	U	T05		
SEAARA1004SS120720	REG	Ac-227	10.72	0.82	0.83	pCi/g	GSS		=			
SEAARA1004SS120720	REG	Am-241	-0.71		0.59	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1004SS120720	REG	Cs-137	0.21		0.26	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS120720	REG	K-40	11.37	2.16	2.54	pCi/g	GSS	*	=			
SEAARA1004SS120720	REG	Pa-231	10.87	2.28	4.05	pCi/g	GSS		=			
SEAARA1004SS120720	REG	Ra-226	11.27	0.57	0.24	pCi/g	GSS		=			
SEAARA1004SS120720	REG	RA-228	0.87	0.16	0.34	pCi/g	GSS		=			
SEAARA1004SS120720	REG	TH-228	0.87	0.16	0.34	pCi/g	GSS		=			
SEAARA1004SS120720	REG	Th-230	369.44	42.19	36.80	pCi/g	GSS		=			
SEAARA1004SS120720	REG	TH-232	0.87	0.16	0.34	pCi/g	GSS		=			
SEAARA1004SS120720	REG	U-235	3.37	0.42	0.88	pCi/g	GSS		=			
SEAARA1004SS120720	REG	U-238	25.99	3.23	3.82	pCi/g	GSS	*	J	J01		
SEAARA1004SS121380	REG	Ac-227	4.09	0.42	0.55	pCi/g	GSS		=			
SEAARA1004SS121380	REG	Am-241	-0.05		0.38	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1004SS121380	REG	Cs-137	0.16		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS121380	REG	K-40	8.41	1.71	1.98	pCi/g	GSS	*	=			
SEAARA1004SS121380	REG	Pa-231	4.49	1.21	2.62	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA1004SS121380	REG	Ra-226	5.21	0.29	0.15	pCi/g	GSS		=			
SEAARA1004SS121380	REG	RA-228	0.81	0.13	0.24	pCi/g	GSS		=			
SEAARA1004SS121380	REG	TH-228	0.81	0.13	0.24	pCi/g	GSS		=			
SEAARA1004SS121380	REG	Th-230	158.61	26.42	23.50	pCi/g	GSS		=			
SEAARA1004SS121380	REG	TH-232	0.81	0.13	0.24	pCi/g	GSS		=			
SEAARA1004SS121380	REG	U-235	2.19	0.31	0.56	pCi/g	GSS		=			
SEAARA1004SS121380	REG	U-238	8.56	1.46	2.45	pCi/g	GSS	*	J	J01		
SEAARA1004SS121740	DUP	Ac-227	-0.05		0.71	pCi/g	GSS	U			NC	NC
SEAARA1004SS121740	DUP	Am-241	0.08		0.16	pCi/g	GSS	U			NC	NC
SEAARA1004SS121740	DUP	Cs-137	0.10		0.12	pCi/g	GSS	U			NC	NC
SEAARA1004SS121740	DUP	K-40	6.14	1.46	1.66	pCi/g	GSS	*			29.6%	1.96
SEAARA1004SS121740	DUP	Pa-231	1.58		2.69	pCi/g	GSS	U			NC	NC
SEAARA1004SS121740	DUP	Ra-226	0.69	0.07	0.10	pCi/g	GSS				3.6%	OK
SEAARA1004SS121740	DUP	RA-228	0.50	0.09	0.13	pCi/g	GSS				10.5%	OK
SEAARA1004SS121740	DUP	TH-228	0.50	0.09	0.13	pCi/g	GSS				10.5%	OK
SEAARA1004SS121740	DUP	Th-230	-2.08		14.90	pCi/g	GSS	U			NC	NC
SEAARA1004SS121740	DUP	TH-232	0.50	0.09	0.13	pCi/g	GSS				10.5%	OK
SEAARA1004SS121740	DUP	U-235	-0.12		0.40	pCi/g	GSS	U			NC	NC
SEAARA1004SS121740	DUP	U-238	1.19	0.47	0.90	pCi/g	GSS	*			NC	3.15
SEAARA1004SS121740	REG	Ac-227	0.05		0.70	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS121740	REG	Am-241	-0.03		0.16	pCi/g	GSS	U	UJ	T04, T06		
SEAARA1004SS121740	REG	Cs-137	0.14		0.13	pCi/g	GSS	U	U	T04		
SEAARA1004SS121740	REG	K-40	8.28	1.56	1.64	pCi/g	GSS	*	=			
SEAARA1004SS121740	REG	Pa-231	0.67		2.75	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS121740	REG	Ra-226	0.67	0.07	0.09	pCi/g	GSS		=			
SEAARA1004SS121740	REG	RA-228	0.45	0.09	0.16	pCi/g	GSS		=			
SEAARA1004SS121740	REG	TH-228	0.45	0.09	0.16	pCi/g	GSS		=			
SEAARA1004SS121740	REG	Th-230	2.55		14.50	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS121740	REG	TH-232	0.45	0.09	0.16	pCi/g	GSS		=			
SEAARA1004SS121740	REG	U-235	0.20		0.41	pCi/g	GSS	U	U	T04, T05		
SEAARA1004SS121740	REG	U-238	0.43		1.59	pCi/g	GSS	U*	U	T04, T05		
SEAARA2001SS060120	REG	Ac-227	20.50	1.46	1.43	pCi/g	GSS		=			
SEAARA2001SS060120	REG	Am-241	0.30		1.00	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS060120	REG	Cs-137	0.02		0.43	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS060120	REG	K-40	15.43	2.81	3.14	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA2001SS060120	REG	Pa-231	20.80	3.65	6.97	pCi/g	GSS		=			
SEAARA2001SS060120	REG	Ra-226	31.73	1.43	0.38	pCi/g	GSS		=			
SEAARA2001SS060120	REG	RA-228	1.15	0.23	0.57	pCi/g	GSS		=			
SEAARA2001SS060120	REG	TH-228	1.15	0.23	0.57	pCi/g	GSS		=			
SEAARA2001SS060120	REG	Th-230	672.95	72.37	61.90	pCi/g	GSS		=			
SEAARA2001SS060120	REG	TH-232	1.15	0.23	0.57	pCi/g	GSS		=			
SEAARA2001SS060120	REG	U-235	8.81		2.77	pCi/g	GSS	U	U	T04		
SEAARA2001SS060120	REG	U-238	33.73	4.16	6.40	pCi/g	GSS		=			
SEAARA2001SS060180	REG	Ac-227	0.48	0.14	0.32	pCi/g	GSS		=			
SEAARA2001SS060180	REG	Am-241	-0.08		0.18	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2001SS060180	REG	Cs-137	0.11		0.13	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS060180	REG	K-40	6.93	1.45	1.60	pCi/g	GSS		=			
SEAARA2001SS060180	REG	Pa-231	3.14		3.02	pCi/g	GSS	U	U	T04		
SEAARA2001SS060180	REG	Ra-226	1.42	0.10	0.11	pCi/g	GSS		=			
SEAARA2001SS060180	REG	RA-228	0.66	0.10	0.16	pCi/g	GSS		=			
SEAARA2001SS060180	REG	TH-228	0.66	0.10	0.16	pCi/g	GSS		=			
SEAARA2001SS060180	REG	Th-230	12.25	5.68	11.20	pCi/g	GSS		=			
SEAARA2001SS060180	REG	TH-232	0.66	0.10	0.16	pCi/g	GSS		=			
SEAARA2001SS060180	REG	U-235	0.77		0.57	pCi/g	GSS	U	U	T04		
SEAARA2001SS060180	REG	U-238	3.56	0.76	1.13	pCi/g	GSS		=			
SEAARA2001SS240360	REG	Ac-227	0.67		0.92	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS240360	REG	Am-241	0.15		0.20	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS240360	REG	Cs-137	0.09		0.14	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS240360	REG	K-40	6.20	1.53	1.85	pCi/g	GSS		=			
SEAARA2001SS240360	REG	Pa-231	2.74		3.32	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS240360	REG	Ra-226	1.19	0.10	0.11	pCi/g	GSS		=			
SEAARA2001SS240360	REG	RA-228	0.66	0.11	0.17	pCi/g	GSS		=			
SEAARA2001SS240360	REG	TH-228	0.66	0.11	0.17	pCi/g	GSS		=			
SEAARA2001SS240360	REG	Th-230	10.49	5.44	11.70	pCi/g	GSS	U	U	T05		
SEAARA2001SS240360	REG	TH-232	0.66	0.11	0.17	pCi/g	GSS		=			
SEAARA2001SS240360	REG	U-235	0.14		0.55	pCi/g	GSS	U	U	T04, T05		
SEAARA2001SS240360	REG	U-238	1.66	0.62	1.24	pCi/g	GSS		=			
SEAARA2002SS061860	REG	Ac-227	-0.45		1.08	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS061860	REG	Am-241	0.08		0.21	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS061860	REG	Cs-137	-0.04		0.14	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA2002SS061860	REG	K-40	6.54	1.45	1.66	pCi/g	GSS		=			
SEAARA2002SS061860	REG	Pa-231	0.82		3.23	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS061860	REG	Ra-226	1.47	0.11	0.12	pCi/g	GSS		=			
SEAARA2002SS061860	REG	RA-228	1.41	0.15	0.19	pCi/g	GSS		=			
SEAARA2002SS061860	REG	TH-228	1.41	0.15	0.19	pCi/g	GSS		=			
SEAARA2002SS061860	REG	Th-230	4.92		20.20	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS061860	REG	TH-232	1.41	0.15	0.19	pCi/g	GSS		=			
SEAARA2002SS061860	REG	U-235	-0.12		0.52	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS061860	REG	U-238	1.35	0.58	1.18	pCi/g	GSS		=			
SEAARA2002SS080080	REG	Ac-227	15.65	1.05	0.92	pCi/g	GSS		=			
SEAARA2002SS080080	REG	Am-241	0.01		0.65	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS080080	REG	Cs-137	0.01		0.26	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS080080	REG	K-40	16.68	2.21	2.10	pCi/g	GSS		=			
SEAARA2002SS080080	REG	Pa-231	18.97	3.58	4.46	pCi/g	GSS		=			
SEAARA2002SS080080	REG	Ra-226	20.00	0.91	0.24	pCi/g	GSS		=			
SEAARA2002SS080080	REG	RA-228	1.21	0.18	0.38	pCi/g	GSS		=			
SEAARA2002SS080080	REG	TH-228	1.21	0.18	0.38	pCi/g	GSS		=			
SEAARA2002SS080080	REG	Th-230	491.78	48.25	40.20	pCi/g	GSS		=			
SEAARA2002SS080080	REG	TH-232	1.21	0.18	0.38	pCi/g	GSS		=			
SEAARA2002SS080080	REG	U-235	5.11	0.59	0.99	pCi/g	GSS		=			
SEAARA2002SS080080	REG	U-238	27.11	2.96	4.17	pCi/g	GSS		=			
SEAARA2002SS081620	REG	Ac-227	0.09		1.29	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS081620	REG	Am-241	-0.02		0.27	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS081620	REG	Cs-137	0.12		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS081620	REG	K-40	6.28	1.50	1.82	pCi/g	GSS		=			
SEAARA2002SS081620	REG	Pa-231	0.24		4.23	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS081620	REG	Ra-226	4.19	0.24	0.15	pCi/g	GSS		=			
SEAARA2002SS081620	REG	RA-228	1.53	0.17	0.23	pCi/g	GSS		=			
SEAARA2002SS081620	REG	TH-228	1.53	0.17	0.23	pCi/g	GSS		=			
SEAARA2002SS081620	REG	Th-230	12.33	6.99	15.90	pCi/g	GSS	U	U	T05		
SEAARA2002SS081620	REG	TH-232	1.53	0.17	0.23	pCi/g	GSS		=			
SEAARA2002SS081620	REG	U-235	0.50		0.73	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS081620	REG	U-238	4.43	0.95	1.65	pCi/g	GSS		=			
SEAARA2002SS180300	REG	Ac-227	2.94	0.37	0.50	pCi/g	GSS		=			
SEAARA2002SS180300	REG	Am-241	-0.08		0.35	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARA2002SS180300	REG	Cs-137	0.11	0.05	0.09	pCi/g	GSS		=			
SEAARA2002SS180300	REG	K-40	13.33	1.93	1.77	pCi/g	GSS		=			
SEAARA2002SS180300	REG	Pa-231	3.30	1.03	2.58	pCi/g	GSS		=			
SEAARA2002SS180300	REG	Ra-226	4.97	0.27	0.15	pCi/g	GSS		=			
SEAARA2002SS180300	REG	RA-228	0.81	0.12	0.22	pCi/g	GSS		=			
SEAARA2002SS180300	REG	TH-228	0.81	0.12	0.22	pCi/g	GSS		=			
SEAARA2002SS180300	REG	Th-230	109.97	17.39	21.50	pCi/g	GSS		=			
SEAARA2002SS180300	REG	TH-232	0.81	0.12	0.22	pCi/g	GSS		=			
SEAARA2002SS180300	REG	U-235	1.73	0.27	0.53	pCi/g	GSS		=			
SEAARA2002SS180300	REG	U-238	11.32	1.68	2.22	pCi/g	GSS		=			
SEAARA2002SS242280	REG	Ac-227	-0.43		1.24	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242280	REG	Am-241	0.04		0.24	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS242280	REG	Cs-137	-0.02		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242280	REG	K-40	7.86	1.64	1.69	pCi/g	GSS		=			
SEAARA2002SS242280	REG	Pa-231	-0.49		3.67	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242280	REG	Ra-226	1.51	0.12	0.13	pCi/g	GSS		=			
SEAARA2002SS242280	REG	RA-228	1.54	0.17	0.19	pCi/g	GSS		=			
SEAARA2002SS242280	REG	TH-228	1.54	0.17	0.19	pCi/g	GSS		=			
SEAARA2002SS242280	REG	Th-230	5.68		21.30	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS242280	REG	TH-232	1.54	0.17	0.19	pCi/g	GSS		=			
SEAARA2002SS242280	REG	U-235	0.53		0.61	pCi/g	GSS	U	U	T04, T05		
SEAARA2002SS242280	REG	U-238	1.70	0.69	1.34	pCi/g	GSS		=			
SEAARA2002SS242281	REG	Ac-227	-0.17		1.07	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242281	REG	Am-241	-0.14		0.21	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242281	REG	Cs-137	0.14		0.14	pCi/g	GSS	U	U	T04		
SEAARA2002SS242281	REG	K-40	4.61	1.31	1.57	pCi/g	GSS		=			
SEAARA2002SS242281	REG	Pa-231	-1.62		3.32	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242281	REG	Ra-226	1.37	0.10	0.11	pCi/g	GSS		=			
SEAARA2002SS242281	REG	RA-228	1.35	0.15	0.18	pCi/g	GSS		=			
SEAARA2002SS242281	REG	TH-228	1.35	0.15	0.18	pCi/g	GSS		=			
SEAARA2002SS242281	REG	Th-230	-5.67		19.10	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242281	REG	TH-232	1.35	0.15	0.18	pCi/g	GSS		=			
SEAARA2002SS242281	REG	U-235	-0.16		0.54	pCi/g	GSS	U	UJ	T04, T06		
SEAARA2002SS242281	REG	U-238	1.34	0.59	1.14	pCi/g	GSS		=			
SEAARB1001SS065460	REG	Ac-227	0.15		0.71	pCi/g	GSS	U	U	T04, T05		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARB1001SS065460	REG	Am-241	-0.12		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARB1001SS065460	REG	Cs-137	0.04		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARB1001SS065460	REG	K-40	18.33	2.00	1.28	pCi/g	GSS		=			
SEAARB1001SS065460	REG	Pa-231	0.65		2.46	pCi/g	GSS	U	U	T04, T05		
SEAARB1001SS065460	REG	Ra-226	0.64	0.06	0.09	pCi/g	GSS		=			
SEAARB1001SS065460	REG	RA-228	0.81	0.10	0.13	pCi/g	GSS		=			
SEAARB1001SS065460	REG	TH-228	0.81	0.10	0.13	pCi/g	GSS		=			
SEAARB1001SS065460	REG	Th-230	5.53		14.90	pCi/g	GSS	U	U	T04, T05		
SEAARB1001SS065460	REG	TH-232	0.81	0.10	0.13	pCi/g	GSS		=			
SEAARB1001SS065460	REG	U-235	-0.14		0.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARB1001SS065460	REG	U-238	0.59	0.41	0.85	pCi/g	GSS	U	U	T05		
SEAARB2001SS062160	REG	Ac-227	0.47	0.14	0.27	pCi/g	GSS		=			
SEAARB2001SS062160	REG	Am-241	-0.13		0.16	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2001SS062160	REG	Cs-137	0.04		0.09	pCi/g	GSS	U	U	T04, T05		
SEAARB2001SS062160	REG	K-40	12.01	1.50	1.14	pCi/g	GSS		=			
SEAARB2001SS062160	REG	Pa-231	-0.47		2.57	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2001SS062160	REG	Ra-226	1.24	0.09	0.08	pCi/g	GSS		=			
SEAARB2001SS062160	REG	RA-228	0.77	0.09	0.13	pCi/g	GSS		=			
SEAARB2001SS062160	REG	TH-228	0.77	0.09	0.13	pCi/g	GSS		=			
SEAARB2001SS062160	REG	Th-230	11.59	4.67	9.76	pCi/g	GSS		=			
SEAARB2001SS062160	REG	TH-232	0.77	0.09	0.13	pCi/g	GSS		=			
SEAARB2001SS062160	REG	U-235	0.47		0.45	pCi/g	GSS	U	U	T04		
SEAARB2001SS062160	REG	U-238	1.18	0.48	1.02	pCi/g	GSS		=			
SEAARB2001SS062520	REG	Ac-227	3.16	0.29	0.36	pCi/g	GSS		=			
SEAARB2001SS062520	REG	Am-241	-0.16		0.24	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2001SS062520	REG	Cs-137	0.11		0.11	pCi/g	GSS	U	U	T04		
SEAARB2001SS062520	REG	K-40	7.04	1.08	1.11	pCi/g	GSS		=			
SEAARB2001SS062520	REG	Pa-231	3.39	0.73	1.78	pCi/g	GSS		=			
SEAARB2001SS062520	REG	Ra-226	7.43	0.33	0.11	pCi/g	GSS		=			
SEAARB2001SS062520	REG	RA-228	0.77	0.08	0.16	pCi/g	GSS		=			
SEAARB2001SS062520	REG	TH-228	0.77	0.08	0.16	pCi/g	GSS		=			
SEAARB2001SS062520	REG	Th-230	87.29	11.33	14.30	pCi/g	GSS		=			
SEAARB2001SS062520	REG	TH-232	0.77	0.08	0.16	pCi/g	GSS		=			
SEAARB2001SS062520	REG	U-235	1.42	0.18	0.38	pCi/g	GSS		=			
SEAARB2001SS062520	REG	U-238	5.24	0.80	1.48	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARB2001SS063060	REG	Ac-227	5.98	0.53	0.59	pCi/g	GSS		=			
SEAARB2001SS063060	REG	Am-241	-0.37		0.39	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2001SS063060	REG	Cs-137	0.11		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARB2001SS063060	REG	K-40	10.05	1.57	1.61	pCi/g	GSS		=			
SEAARB2001SS063060	REG	Pa-231	6.45	1.36	2.87	pCi/g	GSS		=			
SEAARB2001SS063060	REG	Ra-226	8.82	0.41	0.16	pCi/g	GSS		=			
SEAARB2001SS063060	REG	RA-228	1.05	0.13	0.23	pCi/g	GSS		=			
SEAARB2001SS063060	REG	TH-228	1.05	0.13	0.23	pCi/g	GSS		=			
SEAARB2001SS063060	REG	Th-230	200.89	26.71	24.00	pCi/g	GSS		=			
SEAARB2001SS063060	REG	TH-232	1.05	0.13	0.23	pCi/g	GSS		=			
SEAARB2001SS063060	REG	U-235	2.06	0.28	0.61	pCi/g	GSS		=			
SEAARB2001SS063060	REG	U-238	10.20	1.46	2.47	pCi/g	GSS		=			
SEAARB2002SS060420	REG	Ac-227	0.11		0.62	pCi/g	GSS	U	U	T04, T05		
SEAARB2002SS060420	REG	Am-241	-0.04		0.13	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2002SS060420	REG	Cs-137	0.05	0.02	0.04	pCi/g	GSS		=			
SEAARB2002SS060420	REG	K-40	13.03	1.78	1.19	pCi/g	GSS		=			
SEAARB2002SS060420	REG	Pa-231	0.27		1.96	pCi/g	GSS	U	U	T04, T05		
SEAARB2002SS060420	REG	Ra-226	1.09	0.07	0.07	pCi/g	GSS		=			
SEAARB2002SS060420	REG	RA-228	0.81	0.08	0.12	pCi/g	GSS		=			
SEAARB2002SS060420	REG	TH-228	0.81	0.08	0.12	pCi/g	GSS		=			
SEAARB2002SS060420	REG	Th-230	8.06	4.57	7.66	pCi/g	GSS		=			
SEAARB2002SS060420	REG	TH-232	0.81	0.08	0.12	pCi/g	GSS		=			
SEAARB2002SS060420	REG	U-235	0.46		0.35	pCi/g	GSS	U	U	T04		
SEAARB2002SS060420	REG	U-238	1.63	0.42	0.79	pCi/g	GSS		=			
SEAARB2002SS063060	REG	Ac-227	-0.20		0.68	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2002SS063060	REG	Am-241	-0.09		0.14	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2002SS063060	REG	Cs-137	0.04		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARB2002SS063060	REG	K-40	15.21	1.93	1.24	pCi/g	GSS		=			
SEAARB2002SS063060	REG	Pa-231	0.03		2.15	pCi/g	GSS	U	U	T04, T05		
SEAARB2002SS063060	REG	Ra-226	0.59	0.06	0.08	pCi/g	GSS		=			
SEAARB2002SS063060	REG	RA-228	0.58	0.08	0.13	pCi/g	GSS		=			
SEAARB2002SS063060	REG	TH-228	0.58	0.08	0.13	pCi/g	GSS		=			
SEAARB2002SS063060	REG	Th-230	-3.47		14.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2002SS063060	REG	TH-232	0.58	0.08	0.13	pCi/g	GSS		=			
SEAARB2002SS063060	REG	U-235	0.27		0.39	pCi/g	GSS	U	U	T04, T05		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARB2002SS063060	REG	U-238	0.81	0.42	0.88	pCi/g	GSS	U	U	T05		
SEAARB2003SS061560	REG	Ac-227	-0.32		0.76	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2003SS061560	REG	Am-241	0.05		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARB2003SS061560	REG	Cs-137	0.11		0.12	pCi/g	GSS	U	U	T04, T05		
SEAARB2003SS061560	REG	K-40	8.46	1.55	1.60	pCi/g	GSS		=			
SEAARB2003SS061560	REG	Pa-231	3.44		2.80	pCi/g	GSS	U	U	T04		
SEAARB2003SS061560	REG	Ra-226	0.74	0.07	0.09	pCi/g	GSS		=			
SEAARB2003SS061560	REG	RA-228	0.65	0.10	0.14	pCi/g	GSS		=			
SEAARB2003SS061560	REG	TH-228	0.65	0.10	0.14	pCi/g	GSS		=			
SEAARB2003SS061560	REG	Th-230	-4.42		15.50	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2003SS061560	REG	TH-232	0.65	0.10	0.14	pCi/g	GSS		=			
SEAARB2003SS061560	REG	U-235	0.03		0.39	pCi/g	GSS	U	U	T04, T05		
SEAARB2003SS061560	REG	U-238	0.29		1.62	pCi/g	GSS	U	U	T04, T05		
SEAARB2003SS061740	REG	Ac-227	2.29	0.23	0.30	pCi/g	GSS		=			
SEAARB2003SS061740	REG	Am-241	-0.05		0.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2003SS061740	REG	Cs-137	0.04	0.02	0.05	pCi/g	GSS	U	U	T05		
SEAARB2003SS061740	REG	K-40	10.98	1.56	1.13	pCi/g	GSS		=			
SEAARB2003SS061740	REG	Pa-231	1.75	0.77	1.49	pCi/g	GSS		=			
SEAARB2003SS061740	REG	Ra-226	3.72	0.18	0.10	pCi/g	GSS		=			
SEAARB2003SS061740	REG	RA-228	0.66	0.08	0.13	pCi/g	GSS		=			
SEAARB2003SS061740	REG	TH-228	0.66	0.08	0.13	pCi/g	GSS		=			
SEAARB2003SS061740	REG	Th-230	71.82	8.88	12.20	pCi/g	GSS		=			
SEAARB2003SS061740	REG	TH-232	0.66	0.08	0.13	pCi/g	GSS		=			
SEAARB2003SS061740	REG	U-235	1.48		0.55	pCi/g	GSS	U	U	T04		
SEAARB2003SS061740	REG	U-238	5.11	0.85	1.26	pCi/g	GSS		=			
SEAARB2004SS062400	REG	Ac-227	4.10	0.40	0.50	pCi/g	GSS		=			
SEAARB2004SS062400	REG	Am-241	-0.04		0.33	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2004SS062400	REG	Cs-137	0.21		0.15	pCi/g	GSS	U	U	T04		
SEAARB2004SS062400	REG	K-40	10.85	1.53	1.43	pCi/g	GSS		=			
SEAARB2004SS062400	REG	Pa-231	4.60	1.14	2.48	pCi/g	GSS		=			
SEAARB2004SS062400	REG	Ra-226	6.12	0.31	0.14	pCi/g	GSS		=			
SEAARB2004SS062400	REG	RA-228	0.85	0.11	0.20	pCi/g	GSS		=			
SEAARB2004SS062400	REG	TH-228	0.85	0.11	0.20	pCi/g	GSS		=			
SEAARB2004SS062400	REG	Th-230	132.95	17.78	20.90	pCi/g	GSS		=			
SEAARB2004SS062400	REG	TH-232	0.85	0.11	0.20	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARB2004SS062400	REG	U-235	1.78		0.94	pCi/g	GSS	U	U	T04		
SEAARB2004SS062400	REG	U-238	10.23	1.36	2.16	pCi/g	GSS		=			
SEAARB2004SS062460	REG	Ac-227	0.89	0.17	0.32	pCi/g	GSS		=			
SEAARB2004SS062460	REG	Am-241	-0.19		0.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2004SS062460	REG	Cs-137	0.03		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARB2004SS062460	REG	K-40	6.47	1.26	1.37	pCi/g	GSS		=			
SEAARB2004SS062460	REG	Pa-231	0.91		3.13	pCi/g	GSS	U	U	T04, T05		
SEAARB2004SS062460	REG	Ra-226	1.62	0.12	0.09	pCi/g	GSS		=			
SEAARB2004SS062460	REG	RA-228	0.53	0.09	0.14	pCi/g	GSS		=			
SEAARB2004SS062460	REG	TH-228	0.53	0.09	0.14	pCi/g	GSS		=			
SEAARB2004SS062460	REG	Th-230	34.04	7.78	12.00	pCi/g	GSS		=			
SEAARB2004SS062460	REG	TH-232	0.53	0.09	0.14	pCi/g	GSS		=			
SEAARB2004SS062460	REG	U-235	0.12		0.53	pCi/g	GSS	U	U	T04, T05		
SEAARB2004SS062460	REG	U-238	2.53	0.66	1.24	pCi/g	GSS		=			
SEAARB2005SS062460	REG	Ac-227	-0.38		0.69	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2005SS062460	REG	Am-241	-0.12		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2005SS062460	REG	Cs-137	-0.07		0.10	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2005SS062460	REG	K-40	11.98	1.68	1.34	pCi/g	GSS		=			
SEAARB2005SS062460	REG	Pa-231	2.07		2.42	pCi/g	GSS	U	U	T04, T05		
SEAARB2005SS062460	REG	Ra-226	0.60	0.06	0.09	pCi/g	GSS		=			
SEAARB2005SS062460	REG	RA-228	0.63	0.09	0.14	pCi/g	GSS		=			
SEAARB2005SS062460	REG	TH-228	0.63	0.09	0.14	pCi/g	GSS		=			
SEAARB2005SS062460	REG	Th-230	0.48		13.80	pCi/g	GSS	U	U	T04, T05		
SEAARB2005SS062460	REG	TH-232	0.63	0.09	0.14	pCi/g	GSS		=			
SEAARB2005SS062460	REG	U-235	0.24		0.39	pCi/g	GSS	U	U	T04, T05		
SEAARB2005SS062460	REG	U-238	1.05	0.47	0.83	pCi/g	GSS		=			
SEAARB2006SS060300	REG	Ac-227	0.51	0.13	0.29	pCi/g	GSS		=			
SEAARB2006SS060300	REG	Am-241	0.11		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARB2006SS060300	REG	Cs-137	0.09		0.12	pCi/g	GSS	U	U	T04, T05		
SEAARB2006SS060300	REG	K-40	9.90	1.51	1.37	pCi/g	GSS		=			
SEAARB2006SS060300	REG	Pa-231	1.58		2.76	pCi/g	GSS	U	U	T04, T05		
SEAARB2006SS060300	REG	Ra-226	1.20	0.09	0.09	pCi/g	GSS		=			
SEAARB2006SS060300	REG	RA-228	0.75	0.10	0.13	pCi/g	GSS		=			
SEAARB2006SS060300	REG	TH-228	0.75	0.10	0.13	pCi/g	GSS		=			
SEAARB2006SS060300	REG	Th-230	14.82	5.22	10.60	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARB2006SS060300	REG	TH-232	0.75	0.10	0.13	pCi/g	GSS		=			
SEAARB2006SS060300	REG	U-235	0.60		0.49	pCi/g	GSS	U	U	T04		
SEAARB2006SS060300	REG	U-238	2.13	0.58	1.09	pCi/g	GSS		=			
SEAARB2007SS060120	REG	Ac-227	0.06		0.83	pCi/g	GSS	U	U	T04, T05		
SEAARB2007SS060120	REG	Am-241	0.05		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARB2007SS060120	REG	Cs-137	0.04		0.12	pCi/g	GSS	U	U	T04, T05		
SEAARB2007SS060120	REG	K-40	17.54	2.17	1.44	pCi/g	GSS		=			
SEAARB2007SS060120	REG	Pa-231	0.84		2.53	pCi/g	GSS	U	U	T04, T05		
SEAARB2007SS060120	REG	Ra-226	0.70	0.07	0.10	pCi/g	GSS		=			
SEAARB2007SS060120	REG	RA-228	0.91	0.11	0.16	pCi/g	GSS		=			
SEAARB2007SS060120	REG	TH-228	0.91	0.11	0.16	pCi/g	GSS		=			
SEAARB2007SS060120	REG	Th-230	-2.95		16.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2007SS060120	REG	TH-232	0.91	0.11	0.16	pCi/g	GSS		=			
SEAARB2007SS060120	REG	U-235	0.40		0.44	pCi/g	GSS	U	U	T04, T05		
SEAARB2007SS060120	REG	U-238	0.72	0.45	0.99	pCi/g	GSS	U	U	T05		
SEAARB2008SS068640	REG	Ac-227	-0.37		0.70	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2008SS068640	REG	Am-241	-0.04		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2008SS068640	REG	Cs-137	0.00		0.11	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2008SS068640	REG	K-40	12.94	1.82	1.34	pCi/g	GSS		=			
SEAARB2008SS068640	REG	Pa-231	1.44		2.37	pCi/g	GSS	U	U	T04, T05		
SEAARB2008SS068640	REG	Ra-226	0.57	0.06	0.09	pCi/g	GSS		=			
SEAARB2008SS068640	REG	RA-228	0.75	0.10	0.14	pCi/g	GSS		=			
SEAARB2008SS068640	REG	TH-228	0.75	0.10	0.14	pCi/g	GSS		=			
SEAARB2008SS068640	REG	Th-230	2.20		14.80	pCi/g	GSS	U	U	T04, T05		
SEAARB2008SS068640	REG	TH-232	0.75	0.10	0.14	pCi/g	GSS		=			
SEAARB2008SS068640	REG	U-235	-0.02		0.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2008SS068640	REG	U-238	-0.39		1.52	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2010SS061680	REG	Ac-227	0.13		0.74	pCi/g	GSS	U	U	T04, T05		
SEAARB2010SS061680	REG	Am-241	0.10		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARB2010SS061680	REG	Cs-137	0.04		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARB2010SS061680	REG	K-40	11.65	1.63	1.38	pCi/g	GSS		=			
SEAARB2010SS061680	REG	Pa-231	3.65		2.81	pCi/g	GSS	U	U	T04		
SEAARB2010SS061680	REG	Ra-226	1.04	0.08	0.09	pCi/g	GSS		=			
SEAARB2010SS061680	REG	RA-228	0.70	0.10	0.15	pCi/g	GSS		=			
SEAARB2010SS061680	REG	TH-228	0.70	0.10	0.15	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARB2010SS061680	REG	Th-230	10.14	4.89	10.50	pCi/g	GSS	U	U	T05		
SEAARB2010SS061680	REG	TH-232	0.70	0.10	0.15	pCi/g	GSS		=			
SEAARB2010SS061680	REG	U-235	0.08		0.46	pCi/g	GSS	U	U	T04, T05		
SEAARB2010SS061680	REG	U-238	1.43	0.52	1.09	pCi/g	GSS		=			
SEAARB2010SS062340	REG	Ac-227	-0.37		0.67	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2010SS062340	REG	Am-241	0.01		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARB2010SS062340	REG	Cs-137	0.11	0.04	0.05	pCi/g	GSS		=			
SEAARB2010SS062340	REG	K-40	10.36	1.62	1.21	pCi/g	GSS		=			
SEAARB2010SS062340	REG	Pa-231	0.98		2.27	pCi/g	GSS	U	U	T04, T05		
SEAARB2010SS062340	REG	Ra-226	0.71	0.06	0.08	pCi/g	GSS		=			
SEAARB2010SS062340	REG	RA-228	0.67	0.09	0.13	pCi/g	GSS		=			
SEAARB2010SS062340	REG	TH-228	0.67	0.09	0.13	pCi/g	GSS		=			
SEAARB2010SS062340	REG	Th-230	0.64		13.60	pCi/g	GSS	U	U	T04, T05		
SEAARB2010SS062340	REG	TH-232	0.67	0.09	0.13	pCi/g	GSS		=			
SEAARB2010SS062340	REG	U-235	-0.01		0.36	pCi/g	GSS	U	UJ	T04, T06		
SEAARB2010SS062340	REG	U-238	0.88	0.40	0.87	pCi/g	GSS		=			
SEAARC1001SS060320	REG	Ac-227	3.56	0.38	0.48	pCi/g	GSS		=			
SEAARC1001SS060320	REG	Am-241	-0.15		0.34	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1001SS060320	REG	Cs-137	0.09		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC1001SS060320	REG	K-40	6.47	1.67	2.06	pCi/g	GSS		=			
SEAARC1001SS060320	REG	Pa-231	2.80	1.08	2.38	pCi/g	GSS		=			
SEAARC1001SS060320	REG	Ra-226	2.57	0.18	0.15	pCi/g	GSS		=			
SEAARC1001SS060320	REG	RA-228	0.83	0.13	0.23	pCi/g	GSS		=			
SEAARC1001SS060320	REG	TH-228	0.83	0.13	0.23	pCi/g	GSS		=			
SEAARC1001SS060320	REG	Th-230	96.36	14.91	21.60	pCi/g	GSS		=			
SEAARC1001SS060320	REG	TH-232	0.83	0.13	0.23	pCi/g	GSS		=			
SEAARC1001SS060320	REG	U-235	1.61	0.27	0.50	pCi/g	GSS		=			
SEAARC1001SS060320	REG	U-238	8.44	1.47	2.22	pCi/g	GSS		=			
SEAARC1001SS120960	REG	Ac-227	-0.02		0.62	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1001SS120960	REG	Am-241	-0.03		0.14	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1001SS120960	REG	Cs-137	-0.02		0.12	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1001SS120960	REG	K-40	2.13	1.17	1.72	pCi/g	GSS		=			
SEAARC1001SS120960	REG	Pa-231	0.22		2.50	pCi/g	GSS	U	U	T04, T05		
SEAARC1001SS120960	REG	Ra-226	0.50	0.06	0.09	pCi/g	GSS		=			
SEAARC1001SS120960	REG	RA-228	0.37	0.08	0.13	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1001SS120960	REG	TH-228	0.37	0.08	0.13	pCi/g	GSS		=			
SEAARC1001SS120960	REG	Th-230	-4.86		13.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1001SS120960	REG	TH-232	0.37	0.08	0.13	pCi/g	GSS		=			
SEAARC1001SS120960	REG	U-235	-0.01		0.36	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1001SS120960	REG	U-238	0.62		1.49	pCi/g	GSS	U	U	T04, T05		
SEAARC1002SS061320	REG	Ac-227	3.38	0.37	0.46	pCi/g	GSS		=			
SEAARC1002SS061320	REG	Am-241	0.11		0.33	pCi/g	GSS	U	U	T04, T05		
SEAARC1002SS061320	REG	Cs-137	0.08		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARC1002SS061320	REG	K-40	8.64	1.56	1.61	pCi/g	GSS		=			
SEAARC1002SS061320	REG	Pa-231	3.64	0.96	2.16	pCi/g	GSS		=			
SEAARC1002SS061320	REG	Ra-226	3.13	0.19	0.13	pCi/g	GSS		=			
SEAARC1002SS061320	REG	RA-228	0.82	0.12	0.19	pCi/g	GSS		=			
SEAARC1002SS061320	REG	TH-228	0.82	0.12	0.19	pCi/g	GSS		=			
SEAARC1002SS061320	REG	Th-230	80.00	17.95	19.60	pCi/g	GSS		=			
SEAARC1002SS061320	REG	TH-232	0.82	0.12	0.19	pCi/g	GSS		=			
SEAARC1002SS061320	REG	U-235	1.46	0.24	0.49	pCi/g	GSS		=			
SEAARC1002SS061320	REG	U-238	6.79	1.21	2.04	pCi/g	GSS		=			
SEAARC1003SS060960	REG	Ac-227	7.87	0.64	0.55	pCi/g	GSS		=			
SEAARC1003SS060960	REG	Am-241	0.09		0.41	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS060960	REG	Cs-137	0.13		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS060960	REG	K-40	13.25	1.70	1.41	pCi/g	GSS		=			
SEAARC1003SS060960	REG	Pa-231	7.97	1.81	2.62	pCi/g	GSS		=			
SEAARC1003SS060960	REG	Ra-226	5.32	0.27	0.14	pCi/g	GSS		=			
SEAARC1003SS060960	REG	RA-228	0.78	0.11	0.22	pCi/g	GSS		=			
SEAARC1003SS060960	REG	TH-228	0.78	0.11	0.22	pCi/g	GSS		=			
SEAARC1003SS060960	REG	Th-230	212.58	24.89	24.70	pCi/g	GSS		=			
SEAARC1003SS060960	REG	TH-232	0.78	0.11	0.22	pCi/g	GSS		=			
SEAARC1003SS060960	REG	U-235	2.44	0.29	0.60	pCi/g	GSS		=			
SEAARC1003SS060960	REG	U-238	17.55	2.02	2.56	pCi/g	GSS		=			
SEAARC1003SS061020	REG	Ac-227	1.91	0.32	0.48	pCi/g	GSS		=			
SEAARC1003SS061020	REG	Am-241	-0.28		0.35	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS061020	REG	Cs-137	0.10		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS061020	REG	K-40	12.99	2.13	1.84	pCi/g	GSS		=			
SEAARC1003SS061020	REG	Pa-231	1.93		5.04	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS061020	REG	Ra-226	2.32	0.18	0.14	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1003SS061020	REG	RA-228	0.75	0.13	0.21	pCi/g	GSS		=			
SEAARC1003SS061020	REG	TH-228	0.75	0.13	0.21	pCi/g	GSS		=			
SEAARC1003SS061020	REG	Th-230	50.98	11.41	20.60	pCi/g	GSS		=			
SEAARC1003SS061020	REG	TH-232	0.75	0.13	0.21	pCi/g	GSS		=			
SEAARC1003SS061020	REG	U-235	1.09	0.24	0.48	pCi/g	GSS		=			
SEAARC1003SS061020	REG	U-238	6.92	1.47	2.16	pCi/g	GSS		=			
SEAARC1003SS061680	REG	Ac-227	-0.10		0.48	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS061680	REG	Am-241	0.00		0.11	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS061680	REG	Cs-137	0.04		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS061680	REG	K-40	2.92	1.08	1.46	pCi/g	GSS		=			
SEAARC1003SS061680	REG	Pa-231	0.47		2.03	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS061680	REG	Ra-226	0.29	0.04	0.07	pCi/g	GSS		=			
SEAARC1003SS061680	REG	RA-228	0.24	0.06	0.13	pCi/g	GSS		=			
SEAARC1003SS061680	REG	TH-228	0.24	0.06	0.13	pCi/g	GSS		=			
SEAARC1003SS061680	REG	Th-230	-8.68		10.50	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS061680	REG	TH-232	0.24	0.06	0.13	pCi/g	GSS		=			
SEAARC1003SS061680	REG	U-235	0.27		0.31	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS061680	REG	U-238	-0.03		1.18	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS120800	REG	Ac-227	0.96	0.15	0.28	pCi/g	GSS		=			
SEAARC1003SS120800	REG	Am-241	-0.04		0.17	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS120800	REG	Cs-137	0.06	0.03	0.04	pCi/g	GSS		=			
SEAARC1003SS120800	REG	K-40	8.58	1.34	1.25	pCi/g	GSS		=			
SEAARC1003SS120800	REG	Pa-231	0.94		2.86	pCi/g	GSS	U	U	T04, T05		
SEAARC1003SS120800	REG	Ra-226	1.23	0.09	0.09	pCi/g	GSS		=			
SEAARC1003SS120800	REG	RA-228	0.48	0.08	0.13	pCi/g	GSS		=			
SEAARC1003SS120800	REG	TH-228	0.48	0.08	0.13	pCi/g	GSS		=			
SEAARC1003SS120800	REG	Th-230	24.15	5.74	10.10	pCi/g	GSS		=			
SEAARC1003SS120800	REG	TH-232	0.48	0.08	0.13	pCi/g	GSS		=			
SEAARC1003SS120800	REG	U-235	0.77		0.51	pCi/g	GSS	U	U	T04		
SEAARC1003SS120800	REG	U-238	2.07	0.61	1.03	pCi/g	GSS		=			
SEAARC1003SS121320	REG	Ac-227	2.56	0.63	0.39	pCi/g	GSS		=			
SEAARC1003SS121320	REG	Am-241	0.00		0.29	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS121320	REG	Cs-137	-0.05		0.13	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1003SS121320	REG	K-40	7.97	2.96	1.49	pCi/g	GSS		=			
SEAARC1003SS121320	REG	Pa-231	2.87	1.94	1.83	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1003SS121320	REG	Ra-226	2.16	0.29	0.11	pCi/g	GSS		=			
SEAARC1003SS121320	REG	RA-228	0.53	0.20	0.16	pCi/g	GSS		=			
SEAARC1003SS121320	REG	TH-228	0.53	0.20	0.16	pCi/g	GSS		=			
SEAARC1003SS121320	REG	Th-230	82.53	23.74	16.90	pCi/g	GSS		=			
SEAARC1003SS121320	REG	TH-232	0.53	0.20	0.16	pCi/g	GSS		=			
SEAARC1003SS121320	REG	U-235	1.07		0.76	pCi/g	GSS	U	U	T04		
SEAARC1003SS121320	REG	U-238	6.97	2.72	1.75	pCi/g	GSS		=			
SEAARC1004SS120120	REG	Ac-227	-0.14		0.97	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS120120	REG	Am-241	-0.01		0.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS120120	REG	Cs-137	0.14	0.05	0.07	pCi/g	GSS		=			
SEAARC1004SS120120	REG	K-40	10.68	1.98	2.04	pCi/g	GSS		=			
SEAARC1004SS120120	REG	Pa-231	-1.09		2.99	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS120120	REG	Ra-226	0.95	0.09	0.12	pCi/g	GSS		=			
SEAARC1004SS120120	REG	RA-228	0.69	0.12	0.18	pCi/g	GSS		=			
SEAARC1004SS120120	REG	TH-228	0.69	0.12	0.18	pCi/g	GSS		=			
SEAARC1004SS120120	REG	Th-230	-8.85		19.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS120120	REG	TH-232	0.69	0.12	0.18	pCi/g	GSS		=			
SEAARC1004SS120120	REG	U-235	-0.01		0.53	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS120120	REG	U-238	1.67	0.64	1.15	pCi/g	GSS		=			
SEAARC1004SS242040	REG	Ac-227	-0.14		0.76	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242040	REG	Am-241	0.10		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242040	REG	Cs-137	0.07	0.04	0.06	pCi/g	GSS		=			
SEAARC1004SS242040	REG	K-40	5.49	1.50	1.86	pCi/g	GSS		=			
SEAARC1004SS242040	REG	Pa-231	1.89		2.65	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242040	REG	Ra-226	0.52	0.07	0.09	pCi/g	GSS		=			
SEAARC1004SS242040	REG	RA-228	0.56	0.10	0.15	pCi/g	GSS		=			
SEAARC1004SS242040	REG	TH-228	0.56	0.10	0.15	pCi/g	GSS		=			
SEAARC1004SS242040	REG	Th-230	0.47		14.60	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242040	REG	TH-232	0.56	0.10	0.15	pCi/g	GSS		=			
SEAARC1004SS242040	REG	U-235	-0.17		0.38	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242040	REG	U-238	0.72	0.45	0.92	pCi/g	GSS	U	U	T05		
SEAARC1004SS242041	REG	Ac-227	-0.16		0.78	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242041	REG	Am-241	0.02		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242041	REG	Cs-137	0.09	0.04	0.06	pCi/g	GSS		=			
SEAARC1004SS242041	REG	K-40	5.50	1.57	1.95	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1004SS242041	REG	Pa-231	-0.16		2.67	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242041	REG	Ra-226	0.67	0.08	0.11	pCi/g	GSS		=			
SEAARC1004SS242041	REG	RA-228	0.53	0.10	0.14	pCi/g	GSS		=			
SEAARC1004SS242041	REG	TH-228	0.53	0.10	0.14	pCi/g	GSS		=			
SEAARC1004SS242041	REG	Th-230	1.05		16.30	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242041	REG	TH-232	0.53	0.10	0.14	pCi/g	GSS		=			
SEAARC1004SS242041	REG	U-235	0.28		0.44	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242041	REG	U-238	0.17		1.75	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242400	REG	Ac-227	-0.11		0.43	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242400	REG	Am-241	0.01		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242400	REG	Cs-137	0.09	0.02	0.03	pCi/g	GSS		=			
SEAARC1004SS242400	REG	K-40	5.40	0.92	1.01	pCi/g	GSS		=			
SEAARC1004SS242400	REG	Pa-231	1.48		1.54	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242400	REG	Ra-226	0.59	0.05	0.06	pCi/g	GSS		=			
SEAARC1004SS242400	REG	RA-228	0.44	0.06	0.10	pCi/g	GSS		=			
SEAARC1004SS242400	REG	TH-228	0.44	0.06	0.10	pCi/g	GSS		=			
SEAARC1004SS242400	REG	Th-230	1.37		9.02	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242400	REG	TH-232	0.44	0.06	0.10	pCi/g	GSS		=			
SEAARC1004SS242400	REG	U-235	0.03		0.24	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242400	REG	U-238	0.48		1.00	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242401	REG	Ac-227	-0.16		0.71	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242401	REG	Am-241	0.06		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC1004SS242401	REG	Cs-137	0.11	0.04	0.05	pCi/g	GSS		=			
SEAARC1004SS242401	REG	K-40	5.53	1.31	1.50	pCi/g	GSS		=			
SEAARC1004SS242401	REG	Pa-231	-0.33		2.46	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242401	REG	Ra-226	0.65	0.07	0.09	pCi/g	GSS		=			
SEAARC1004SS242401	REG	RA-228	0.50	0.09	0.13	pCi/g	GSS		=			
SEAARC1004SS242401	REG	TH-228	0.50	0.09	0.13	pCi/g	GSS		=			
SEAARC1004SS242401	REG	Th-230	-9.45		14.30	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242401	REG	TH-232	0.50	0.09	0.13	pCi/g	GSS		=			
SEAARC1004SS242401	REG	U-235	0.00		0.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1004SS242401	REG	U-238	1.33	0.50	0.88	pCi/g	GSS		=			
SEAARC1005SS064020	REG	Ac-227	1.70	0.20	0.38	pCi/g	GSS		=			
SEAARC1005SS064020	REG	Am-241	0.07		0.24	pCi/g	GSS	U	U	T04, T05		
SEAARC1005SS064020	REG	Cs-137	0.11	0.04	0.07	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1005SS064020	REG	K-40	11.95	1.74	1.48	pCi/g	GSS		=			
SEAARC1005SS064020	REG	Pa-231	1.41	0.89	1.99	pCi/g	GSS	U	U	T05		
SEAARC1005SS064020	REG	Ra-226	2.04	0.13	0.13	pCi/g	GSS		=			
SEAARC1005SS064020	REG	RA-228	1.02	0.12	0.19	pCi/g	GSS		=			
SEAARC1005SS064020	REG	TH-228	1.02	0.12	0.19	pCi/g	GSS		=			
SEAARC1005SS064020	REG	Th-230	40.20	10.12	14.30	pCi/g	GSS		=			
SEAARC1005SS064020	REG	TH-232	1.02	0.12	0.19	pCi/g	GSS		=			
SEAARC1005SS064020	REG	U-235	0.96		0.66	pCi/g	GSS	U	U	T04		
SEAARC1005SS064020	REG	U-238	4.59	0.89	1.49	pCi/g	GSS		=			
SEAARC1005SS064140	DUP	Ac-227	0.03		0.70	pCi/g	GSS	U	U	T04, T05	NC	NC
SEAARC1005SS064140	DUP	Am-241	-0.03		0.15	pCi/g	GSS	U	UJ	T04, T06	NC	NC
SEAARC1005SS064140	DUP	Cs-137	0.08	0.03	0.05	pCi/g	GSS		=		8.2%	OK
SEAARC1005SS064140	DUP	K-40	13.36	1.77	1.35	pCi/g	GSS		=		12.5%	OK
SEAARC1005SS064140	DUP	Pa-231	2.34		2.41	pCi/g	GSS	U	U	T04, T05	NC	NC
SEAARC1005SS064140	DUP	Ra-226	0.66	0.06	0.09	pCi/g	GSS		=		7.7%	OK
SEAARC1005SS064140	DUP	RA-228	0.73	0.10	0.14	pCi/g	GSS		=		3.6%	OK
SEAARC1005SS064140	DUP	TH-228	0.73	0.10	0.14	pCi/g	GSS		=		3.6%	OK
SEAARC1005SS064140	DUP	Th-230	-17.13		14.30	pCi/g	GSS	U	UJ	T04, T06	NC	NC
SEAARC1005SS064140	DUP	TH-232	0.73	0.10	0.14	pCi/g	GSS		=		3.6%	OK
SEAARC1005SS064140	DUP	U-235	0.14		0.39	pCi/g	GSS	U	U	T04, T05	NC	NC
SEAARC1005SS064140	DUP	U-238	0.88	0.43	0.90	pCi/g	GSS	U	U	T05	23.9%	OK
SEAARC1005SS064140	REG	Ac-227	-0.32		0.71	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1005SS064140	REG	Am-241	-0.01		0.16	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1005SS064140	REG	Cs-137	0.07	0.03	0.06	pCi/g	GSS		=			
SEAARC1005SS064140	REG	K-40	11.78	1.63	1.25	pCi/g	GSS		=			
SEAARC1005SS064140	REG	Pa-231	1.09		2.41	pCi/g	GSS	U	U	T04, T05		
SEAARC1005SS064140	REG	Ra-226	0.61	0.06	0.09	pCi/g	GSS		=			
SEAARC1005SS064140	REG	RA-228	0.71	0.09	0.15	pCi/g	GSS		=			
SEAARC1005SS064140	REG	TH-228	0.71	0.09	0.15	pCi/g	GSS		=			
SEAARC1005SS064140	REG	Th-230	-1.20		14.30	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1005SS064140	REG	TH-232	0.71	0.09	0.15	pCi/g	GSS		=			
SEAARC1005SS064140	REG	U-235	0.19		0.40	pCi/g	GSS	U	U	T04, T05		
SEAARC1005SS064140	REG	U-238	1.12	0.44	0.90	pCi/g	GSS		=			
SEAARC1006SS067500	REG	Ac-227	4.08	0.34	0.47	pCi/g	GSS		=			
SEAARC1006SS067500	REG	Am-241	-0.18		0.31	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1006SS067500	REG	Cs-137	0.13		0.14	pCi/g	GSS	U	U	T04, T05		
SEAARC1006SS067500	REG	K-40	8.35	1.46	1.54	pCi/g	GSS		=			
SEAARC1006SS067500	REG	Pa-231	3.80	0.94	2.10	pCi/g	GSS		=			
SEAARC1006SS067500	REG	Ra-226	4.73	0.25	0.13	pCi/g	GSS		=			
SEAARC1006SS067500	REG	RA-228	0.62	0.10	0.20	pCi/g	GSS		=			
SEAARC1006SS067500	REG	TH-228	0.62	0.10	0.20	pCi/g	GSS		=			
SEAARC1006SS067500	REG	Th-230	108.52	15.30	19.00	pCi/g	GSS		=			
SEAARC1006SS067500	REG	TH-232	0.62	0.10	0.20	pCi/g	GSS		=			
SEAARC1006SS067500	REG	U-235	1.57		0.87	pCi/g	GSS	U	U	T04		
SEAARC1006SS067500	REG	U-238	8.15	1.38	1.96	pCi/g	GSS		=			
SEAARC1006SS067560	REG	Ac-227	3.31	0.30	0.42	pCi/g	GSS		=			
SEAARC1006SS067560	REG	Am-241	0.10		0.28	pCi/g	GSS	U	U	T04, T05		
SEAARC1006SS067560	REG	Cs-137	0.07		0.13	pCi/g	GSS	U	U	T04, T05		
SEAARC1006SS067560	REG	K-40	12.48	1.73	1.34	pCi/g	GSS		=			
SEAARC1006SS067560	REG	Pa-231	3.44	0.98	2.01	pCi/g	GSS		=			
SEAARC1006SS067560	REG	Ra-226	3.54	0.20	0.12	pCi/g	GSS		=			
SEAARC1006SS067560	REG	RA-228	0.79	0.10	0.18	pCi/g	GSS		=			
SEAARC1006SS067560	REG	TH-228	0.79	0.10	0.18	pCi/g	GSS		=			
SEAARC1006SS067560	REG	Th-230	74.95	10.98	16.50	pCi/g	GSS		=			
SEAARC1006SS067560	REG	TH-232	0.79	0.10	0.18	pCi/g	GSS		=			
SEAARC1006SS067560	REG	U-235	1.24	0.21	0.44	pCi/g	GSS		=			
SEAARC1006SS067560	REG	U-238	5.45	0.98	1.71	pCi/g	GSS		=			
SEAARC1006SS067680	DUP	Ac-227	-0.14		0.74	pCi/g	GSS	U			NC	NC
SEAARC1006SS067680	DUP	Am-241	-0.05		0.16	pCi/g	GSS	U			NC	NC
SEAARC1006SS067680	DUP	Cs-137	-0.07		0.10	pCi/g	GSS	U			NC	NC
SEAARC1006SS067680	DUP	K-40	17.61	2.40	1.31	pCi/g	GSS				14.9%	OK
SEAARC1006SS067680	DUP	Pa-231	-0.50		2.34	pCi/g	GSS	U			NC	NC
SEAARC1006SS067680	DUP	Ra-226	0.71	0.06	0.09	pCi/g	GSS				11.4%	OK
SEAARC1006SS067680	DUP	RA-228	0.79	0.10	0.15	pCi/g	GSS				3.9%	OK
SEAARC1006SS067680	DUP	TH-228	0.79	0.10	0.15	pCi/g	GSS				3.9%	OK
SEAARC1006SS067680	DUP	Th-230	1.75		15.40	pCi/g	GSS	U			NC	NC
SEAARC1006SS067680	DUP	TH-232	0.79	0.10	0.15	pCi/g	GSS				3.9%	OK
SEAARC1006SS067680	DUP	U-235	-0.24		0.40	pCi/g	GSS	U			NC	NC
SEAARC1006SS067680	DUP	U-238	0.78	0.53	0.94	pCi/g	GSS	U			NC	0.34
SEAARC1006SS067680	REG	Ac-227	0.11		0.70	pCi/g	GSS	U	U	T04, T05		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1006SS067680	REG	Am-241	-0.01		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1006SS067680	REG	Cs-137	0.01		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC1006SS067680	REG	K-40	15.17	1.92	1.29	pCi/g	GSS		=			
SEAARC1006SS067680	REG	Pa-231	1.30		2.23	pCi/g	GSS	U	U	T04, T05		
SEAARC1006SS067680	REG	Ra-226	0.63	0.06	0.09	pCi/g	GSS		=			
SEAARC1006SS067680	REG	RA-228	0.76	0.09	0.13	pCi/g	GSS		=			
SEAARC1006SS067680	REG	TH-228	0.76	0.09	0.13	pCi/g	GSS		=			
SEAARC1006SS067680	REG	Th-230	-1.95		14.80	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1006SS067680	REG	TH-232	0.76	0.09	0.13	pCi/g	GSS		=			
SEAARC1006SS067680	REG	U-235	0.14		0.39	pCi/g	GSS	U	U	T04, T05		
SEAARC1006SS067680	REG	U-238	0.67	0.40	0.91	pCi/g	GSS	U	U	T05		
SEAARC1008SS060360	REG	Ac-227	10.55	0.68	0.48	pCi/g	GSS		=			
SEAARC1008SS060360	REG	Am-241	-0.11		0.34	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1008SS060360	REG	Cs-137	0.22		0.14	pCi/g	GSS	U	U	T04		
SEAARC1008SS060360	REG	K-40	8.15	1.38	1.55	pCi/g	GSS		=			
SEAARC1008SS060360	REG	Pa-231	8.58	2.48	2.20	pCi/g	GSS		=			
SEAARC1008SS060360	REG	Ra-226	5.46	0.28	0.13	pCi/g	GSS		=			
SEAARC1008SS060360	REG	RA-228	0.75	0.10	0.20	pCi/g	GSS		=			
SEAARC1008SS060360	REG	TH-228	0.75	0.10	0.20	pCi/g	GSS		=			
SEAARC1008SS060360	REG	Th-230	234.64	26.88	20.80	pCi/g	GSS		=			
SEAARC1008SS060360	REG	TH-232	0.75	0.10	0.20	pCi/g	GSS		=			
SEAARC1008SS060360	REG	U-235	2.10	0.27	0.51	pCi/g	GSS		=			
SEAARC1008SS060360	REG	U-238	17.82	2.12	2.15	pCi/g	GSS		=			
SEAARC1008SS060420	REG	Ac-227	1.05	0.17	0.33	pCi/g	GSS		=			
SEAARC1008SS060420	REG	Am-241	0.10		0.21	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS060420	REG	Cs-137	0.12		0.13	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS060420	REG	K-40	10.04	1.63	1.53	pCi/g	GSS		=			
SEAARC1008SS060420	REG	Pa-231	1.22	0.77	1.61	pCi/g	GSS	U	U	T05		
SEAARC1008SS060420	REG	Ra-226	1.35	0.10	0.11	pCi/g	GSS		=			
SEAARC1008SS060420	REG	RA-228	0.84	0.11	0.17	pCi/g	GSS		=			
SEAARC1008SS060420	REG	TH-228	0.84	0.11	0.17	pCi/g	GSS		=			
SEAARC1008SS060420	REG	Th-230	13.81	6.02	12.60	pCi/g	GSS		=			
SEAARC1008SS060420	REG	TH-232	0.84	0.11	0.17	pCi/g	GSS		=			
SEAARC1008SS060420	REG	U-235	0.43		0.57	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS060420	REG	U-238	2.88	0.73	1.29	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1008SS060760	REG	Ac-227	-0.17		0.85	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1008SS060760	REG	Am-241	-0.02		0.17	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1008SS060760	REG	Cs-137	0.07	0.04	0.06	pCi/g	GSS		=			
SEAARC1008SS060760	REG	K-40	12.70	1.85	1.59	pCi/g	GSS		=			
SEAARC1008SS060760	REG	Pa-231	2.26		2.76	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS060760	REG	Ra-226	0.71	0.07	0.10	pCi/g	GSS		=			
SEAARC1008SS060760	REG	RA-228	0.87	0.11	0.15	pCi/g	GSS		=			
SEAARC1008SS060760	REG	TH-228	0.87	0.11	0.15	pCi/g	GSS		=			
SEAARC1008SS060760	REG	Th-230	-8.58		16.90	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1008SS060760	REG	TH-232	0.87	0.11	0.15	pCi/g	GSS		=			
SEAARC1008SS060760	REG	U-235	0.49		0.47	pCi/g	GSS	U	U	T04		
SEAARC1008SS060760	REG	U-238	0.91	0.49	1.02	pCi/g	GSS	U	U	T05		
SEAARC1008SS120320	DUP	Ac-227	10.50	0.78	0.58	pCi/g	GSS				7.4%	OK
SEAARC1008SS120320	DUP	Am-241	-0.09		0.44	pCi/g	GSS	U			NC	NC
SEAARC1008SS120320	DUP	Cs-137	0.06	0.05	0.08	pCi/g	GSS	U			NC	0.90
SEAARC1008SS120320	DUP	K-40	9.76	1.62	1.70	pCi/g	GSS				18.1%	OK
SEAARC1008SS120320	DUP	Pa-231	9.02	2.43	2.71	pCi/g	GSS				8.0%	OK
SEAARC1008SS120320	DUP	Ra-226	5.50	0.31	0.15	pCi/g	GSS				4.1%	OK
SEAARC1008SS120320	DUP	RA-228	0.80	0.12	0.22	pCi/g	GSS				14.9%	OK
SEAARC1008SS120320	DUP	TH-228	0.80	0.12	0.22	pCi/g	GSS				14.9%	OK
SEAARC1008SS120320	DUP	Th-230	243.65	29.98	26.50	pCi/g	GSS				4.2%	OK
SEAARC1008SS120320	DUP	TH-232	0.80	0.12	0.22	pCi/g	GSS				14.9%	OK
SEAARC1008SS120320	DUP	U-235	2.88	0.39	0.65	pCi/g	GSS				5.4%	OK
SEAARC1008SS120320	DUP	U-238	13.42	1.94	2.72	pCi/g	GSS				9.9%	OK
SEAARC1008SS120320	REG	Ac-227	9.75	0.73	0.68	pCi/g	GSS		=			
SEAARC1008SS120320	REG	Am-241	0.04		0.52	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS120320	REG	Cs-137	0.08		0.20	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS120320	REG	K-40	8.14	1.80	1.95	pCi/g	GSS		=			
SEAARC1008SS120320	REG	Pa-231	9.78	2.10	3.28	pCi/g	GSS		=			
SEAARC1008SS120320	REG	Ra-226	5.27	0.34	0.17	pCi/g	GSS		=			
SEAARC1008SS120320	REG	RA-228	0.69	0.13	0.26	pCi/g	GSS		=			
SEAARC1008SS120320	REG	TH-228	0.69	0.13	0.26	pCi/g	GSS		=			
SEAARC1008SS120320	REG	Th-230	233.67	28.00	31.60	pCi/g	GSS		=			
SEAARC1008SS120320	REG	TH-232	0.69	0.13	0.26	pCi/g	GSS		=			
SEAARC1008SS120320	REG	U-235	3.04	0.42	0.78	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC1008SS120320	REG	U-238	14.82	2.48	3.26	pCi/g	GSS		=			
SEAARC1008SS120540	REG	Ac-227	-0.10		0.72	pCi/g	GSS	U	UJ	T04, T06		
SEAARC1008SS120540	REG	Am-241	0.08		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS120540	REG	Cs-137	0.00		0.11	pCi/g	GSS	U	U	T04		
SEAARC1008SS120540	REG	K-40	5.89	1.37	1.59	pCi/g	GSS		=			
SEAARC1008SS120540	REG	Pa-231	1.76		2.42	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS120540	REG	Ra-226	0.62	0.07	0.10	pCi/g	GSS		=			
SEAARC1008SS120540	REG	RA-228	0.61	0.10	0.14	pCi/g	GSS		=			
SEAARC1008SS120540	REG	TH-228	0.61	0.10	0.14	pCi/g	GSS		=			
SEAARC1008SS120540	REG	Th-230	6.79		16.40	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS120540	REG	TH-232	0.61	0.10	0.14	pCi/g	GSS		=			
SEAARC1008SS120540	REG	U-235	0.27		0.42	pCi/g	GSS	U	U	T04, T05		
SEAARC1008SS120540	REG	U-238	2.56	0.62	0.98	pCi/g	GSS		=			
SEAARC2001SS062460	REG	Ac-227	0.98	0.14	0.28	pCi/g	GSS		=			
SEAARC2001SS062460	REG	Am-241	0.01		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARC2001SS062460	REG	Cs-137	0.06	0.03	0.05	pCi/g	GSS		=			
SEAARC2001SS062460	REG	K-40	6.89	1.30	1.36	pCi/g	GSS		=			
SEAARC2001SS062460	REG	Pa-231	0.27		2.85	pCi/g	GSS	U	U	T04, T05		
SEAARC2001SS062460	REG	Ra-226	1.02	0.08	0.09	pCi/g	GSS		=			
SEAARC2001SS062460	REG	RA-228	0.55	0.08	0.13	pCi/g	GSS		=			
SEAARC2001SS062460	REG	TH-228	0.55	0.08	0.13	pCi/g	GSS		=			
SEAARC2001SS062460	REG	Th-230	25.53	6.20	10.90	pCi/g	GSS		=			
SEAARC2001SS062460	REG	TH-232	0.55	0.08	0.13	pCi/g	GSS		=			
SEAARC2001SS062460	REG	U-235	0.51		0.51	pCi/g	GSS	*	J	J01		
SEAARC2001SS062460	REG	U-238	2.81	0.63	1.12	pCi/g	GSS	*	J	J01		
SEAARC2002SS063360	REG	Ac-227	4.77	0.38	0.50	pCi/g	GSS		=			
SEAARC2002SS063360	REG	Am-241	-0.27		0.39	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2002SS063360	REG	Cs-137	0.19		0.16	pCi/g	GSS		=			
SEAARC2002SS063360	REG	K-40	4.68	1.41	1.84	pCi/g	GSS		=			
SEAARC2002SS063360	REG	Pa-231	4.72	1.23	2.54	pCi/g	GSS		=			
SEAARC2002SS063360	REG	Ra-226	4.11	0.24	0.13	pCi/g	GSS		=			
SEAARC2002SS063360	REG	RA-228	0.50	0.11	0.20	pCi/g	GSS		=			
SEAARC2002SS063360	REG	TH-228	0.50	0.11	0.20	pCi/g	GSS		=			
SEAARC2002SS063360	REG	Th-230	164.95	21.53	22.70	pCi/g	GSS		=			
SEAARC2002SS063360	REG	TH-232	0.50	0.11	0.20	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2002SS063360	REG	U-235	2.43		1.03	pCi/g	GSS	*	J	J01		
SEAARC2002SS063360	REG	U-238	11.21	1.68	2.36	pCi/g	GSS	*	J	J01		
SEAARC2002SS063440	REG	Ac-227	9.59	0.61	0.57	pCi/g	GSS		=			
SEAARC2002SS063440	REG	Am-241	0.07		0.45	pCi/g	GSS	U	U	T04, T05		
SEAARC2002SS063440	REG	Cs-137	0.05		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARC2002SS063440	REG	K-40	7.43	1.40	1.58	pCi/g	GSS		=			
SEAARC2002SS063440	REG	Pa-231	10.18	1.71	2.55	pCi/g	GSS		=			
SEAARC2002SS063440	REG	Ra-226	5.71	0.30	0.14	pCi/g	GSS		=			
SEAARC2002SS063440	REG	RA-228	0.66	0.11	0.21	pCi/g	GSS		=			
SEAARC2002SS063440	REG	TH-228	0.66	0.11	0.21	pCi/g	GSS		=			
SEAARC2002SS063440	REG	Th-230	282.43	30.66	26.90	pCi/g	GSS		=			
SEAARC2002SS063440	REG	TH-232	0.66	0.11	0.21	pCi/g	GSS		=			
SEAARC2002SS063440	REG	U-235	3.07	0.37	0.63	pCi/g	GSS	*	J	J01		
SEAARC2002SS063440	REG	U-238	20.61	2.19	2.77	pCi/g	GSS	*	J	J01		
SEAARC2002SS063500	REG	Ac-227	4.96	0.37	0.42	pCi/g	GSS		=			
SEAARC2002SS063500	REG	Am-241	-0.05		0.31	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2002SS063500	REG	Cs-137	0.19		0.13	pCi/g	GSS		=			
SEAARC2002SS063500	REG	K-40	8.79	1.39	1.37	pCi/g	GSS		=			
SEAARC2002SS063500	REG	Pa-231	5.15	1.21	2.04	pCi/g	GSS		=			
SEAARC2002SS063500	REG	Ra-226	3.49	0.20	0.12	pCi/g	GSS		=			
SEAARC2002SS063500	REG	RA-228	0.62	0.09	0.17	pCi/g	GSS		=			
SEAARC2002SS063500	REG	TH-228	0.62	0.09	0.17	pCi/g	GSS		=			
SEAARC2002SS063500	REG	Th-230	135.91	20.17	19.30	pCi/g	GSS		=			
SEAARC2002SS063500	REG	TH-232	0.62	0.09	0.17	pCi/g	GSS		=			
SEAARC2002SS063500	REG	U-235	1.71	0.25	0.48	pCi/g	GSS	*	J	J01		
SEAARC2002SS063500	REG	U-238	9.38	1.47	2.00	pCi/g	GSS	*	J	J01		
SEAARC2003SS061380	REG	Ac-227	-0.10		0.59	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS061380	REG	Am-241	0.04		0.13	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS061380	REG	Cs-137	0.10		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS061380	REG	K-40	7.73	1.25	1.20	pCi/g	GSS		=			
SEAARC2003SS061380	REG	Pa-231	1.00		2.13	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS061380	REG	Ra-226	0.59	0.06	0.07	pCi/g	GSS		=			
SEAARC2003SS061380	REG	RA-228	0.50	0.08	0.11	pCi/g	GSS		=			
SEAARC2003SS061380	REG	TH-228	0.50	0.08	0.11	pCi/g	GSS		=			
SEAARC2003SS061380	REG	Th-230	2.36		12.60	pCi/g	GSS	U	U	T04, T05		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2003SS061380	REG	TH-232	0.50	0.08	0.11	pCi/g	GSS		=			
SEAARC2003SS061380	REG	U-235	-0.13		0.33	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS061380	REG	U-238	0.84	0.37	0.79	pCi/g	GSS		=			
SEAARC2003SS062520	REG	Ac-227	2.24	0.23	0.36	pCi/g	GSS		=			
SEAARC2003SS062520	REG	Am-241	0.07		0.26	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS062520	REG	Cs-137	0.07		0.13	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS062520	REG	K-40	16.87	2.01	1.33	pCi/g	GSS		=			
SEAARC2003SS062520	REG	Pa-231	2.60	0.78	1.86	pCi/g	GSS		=			
SEAARC2003SS062520	REG	Ra-226	2.55	0.16	0.12	pCi/g	GSS		=			
SEAARC2003SS062520	REG	RA-228	0.96	0.11	0.17	pCi/g	GSS		=			
SEAARC2003SS062520	REG	TH-228	0.96	0.11	0.17	pCi/g	GSS		=			
SEAARC2003SS062520	REG	Th-230	50.38	13.43	15.30	pCi/g	GSS		=			
SEAARC2003SS062520	REG	TH-232	0.96	0.11	0.17	pCi/g	GSS		=			
SEAARC2003SS062520	REG	U-235	1.19		0.70	pCi/g	GSS	U	U	T04		
SEAARC2003SS062520	REG	U-238	4.66	0.93	1.58	pCi/g	GSS		=			
SEAARC2003SS063540	REG	Ac-227	0.32	0.10	0.22	pCi/g	GSS		=			
SEAARC2003SS063540	REG	Am-241	-0.05		0.13	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS063540	REG	Cs-137	0.03		0.09	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS063540	REG	K-40	5.84	1.25	1.29	pCi/g	GSS		=			
SEAARC2003SS063540	REG	Pa-231	0.42		2.19	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS063540	REG	Ra-226	0.69	0.06	0.08	pCi/g	GSS		=			
SEAARC2003SS063540	REG	RA-228	0.43	0.07	0.12	pCi/g	GSS		=			
SEAARC2003SS063540	REG	TH-228	0.43	0.07	0.12	pCi/g	GSS		=			
SEAARC2003SS063540	REG	Th-230	9.25	3.87	7.49	pCi/g	GSS		=			
SEAARC2003SS063540	REG	TH-232	0.43	0.07	0.12	pCi/g	GSS		=			
SEAARC2003SS063540	REG	U-235	0.58		0.38	pCi/g	GSS	U	U	T04		
SEAARC2003SS063540	REG	U-238	1.16	0.58	0.78	pCi/g	GSS		=			
SEAARC2003SS063840	REG	Ac-227	0.54	0.10	0.20	pCi/g	GSS		=			
SEAARC2003SS063840	REG	Am-241	-0.03		0.13	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS063840	REG	Cs-137	0.04	0.02	0.04	pCi/g	GSS	U	U	T05		
SEAARC2003SS063840	REG	K-40	9.15	1.32	1.02	pCi/g	GSS		=			
SEAARC2003SS063840	REG	Pa-231	0.70		1.98	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS063840	REG	Ra-226	1.30	0.08	0.07	pCi/g	GSS		=			
SEAARC2003SS063840	REG	RA-228	0.69	0.07	0.10	pCi/g	GSS		=			
SEAARC2003SS063840	REG	TH-228	0.69	0.07	0.10	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2003SS063840	REG	Th-230	14.88	3.95	7.61	pCi/g	GSS		=			
SEAARC2003SS063840	REG	TH-232	0.69	0.07	0.10	pCi/g	GSS		=			
SEAARC2003SS063840	REG	U-235	0.53		0.34	pCi/g	GSS	U	U	T04		
SEAARC2003SS063840	REG	U-238	1.71	0.44	0.79	pCi/g	GSS		=			
SEAARC2003SS064140	REG	Ac-227	-0.15		0.71	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS064140	REG	Am-241	-0.03		0.14	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS064140	REG	Cs-137	0.02		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS064140	REG	K-40	9.60	1.42	1.28	pCi/g	GSS		=			
SEAARC2003SS064140	REG	Pa-231	0.86		2.22	pCi/g	GSS	U	U	T04, T05		
SEAARC2003SS064140	REG	Ra-226	0.67	0.06	0.08	pCi/g	GSS		=			
SEAARC2003SS064140	REG	RA-228	0.82	0.10	0.13	pCi/g	GSS		=			
SEAARC2003SS064140	REG	TH-228	0.82	0.10	0.13	pCi/g	GSS		=			
SEAARC2003SS064140	REG	Th-230	-4.44		13.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS064140	REG	TH-232	0.82	0.10	0.13	pCi/g	GSS		=			
SEAARC2003SS064140	REG	U-235	-0.08		0.36	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2003SS064140	REG	U-238	0.59	0.41	0.82	pCi/g	GSS	U	U	T05		
SEAARC2004SS060460	REG	Ac-227	1.03		0.83	pCi/g	GSS	U	U	T04		
SEAARC2004SS060460	REG	Am-241	0.03		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS060460	REG	Cs-137	0.06		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS060460	REG	K-40	21.45	2.48	1.24	pCi/g	GSS		=			
SEAARC2004SS060460	REG	Pa-231	-0.67		2.35	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS060460	REG	Ra-226	0.77	0.07	0.09	pCi/g	GSS		=			
SEAARC2004SS060460	REG	RA-228	1.00	0.11	0.16	pCi/g	GSS		=			
SEAARC2004SS060460	REG	TH-228	1.00	0.11	0.16	pCi/g	GSS		=			
SEAARC2004SS060460	REG	Th-230	-3.18		15.50	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS060460	REG	TH-232	1.00	0.11	0.16	pCi/g	GSS		=			
SEAARC2004SS060460	REG	U-235	0.09		0.43	pCi/g	GSS	U*	U	T04, T05		
SEAARC2004SS060460	REG	U-238	0.92	0.46	0.97	pCi/g	GSS	U*	U			
SEAARC2004SS062460	REG	Ac-227	-0.22		0.70	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS062460	REG	Am-241	-0.02		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS062460	REG	Cs-137	0.07		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS062460	REG	K-40	8.63	1.47	1.46	pCi/g	GSS		=			
SEAARC2004SS062460	REG	Pa-231	-0.60		2.31	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS062460	REG	Ra-226	0.64	0.06	0.09	pCi/g	GSS		=			
SEAARC2004SS062460	REG	RA-228	0.59	0.09	0.13	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2004SS062460	REG	TH-228	0.59	0.09	0.13	pCi/g	GSS		=			
SEAARC2004SS062460	REG	Th-230	-2.97		14.80	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS062460	REG	TH-232	0.59	0.09	0.13	pCi/g	GSS		=			
SEAARC2004SS062460	REG	U-235	0.28		0.40	pCi/g	GSS	U*	U	T04, T05		
SEAARC2004SS062460	REG	U-238	0.66	0.42	0.87	pCi/g	GSS	U*	U			
SEAARC2004SS062640	REG	Ac-227	1.51	0.15	0.22	pCi/g	GSS		=			
SEAARC2004SS062640	REG	Am-241	-0.02		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS062640	REG	Cs-137	0.03	0.02	0.04	pCi/g	GSS	U	U	T05		
SEAARC2004SS062640	REG	K-40	12.65	1.49	0.93	pCi/g	GSS		=			
SEAARC2004SS062640	REG	Pa-231	1.58	0.48	1.12	pCi/g	GSS		=			
SEAARC2004SS062640	REG	Ra-226	1.69	0.10	0.07	pCi/g	GSS		=			
SEAARC2004SS062640	REG	RA-228	0.66	0.07	0.11	pCi/g	GSS		=			
SEAARC2004SS062640	REG	TH-228	0.66	0.07	0.11	pCi/g	GSS		=			
SEAARC2004SS062640	REG	Th-230	39.20	6.59	8.80	pCi/g	GSS		=			
SEAARC2004SS062640	REG	TH-232	0.66	0.07	0.11	pCi/g	GSS		=			
SEAARC2004SS062640	REG	U-235	0.56		0.40	pCi/g	GSS	U*	U	T04		
SEAARC2004SS062640	REG	U-238	3.02	0.52	0.92	pCi/g	GSS	*	J	J01		
SEAARC2004SS062760	DUP	Ac-227	6.22	0.46	0.49	pCi/g	GSS				0.7%	OK
SEAARC2004SS062760	DUP	Am-241	-0.06		0.35	pCi/g	GSS	U			NC	NC
SEAARC2004SS062760	DUP	Cs-137	0.08		0.13	pCi/g	GSS	U			NC	NC
SEAARC2004SS062760	DUP	K-40	10.57	1.54	1.45	pCi/g	GSS				2.7%	OK
SEAARC2004SS062760	DUP	Pa-231	6.46	1.38	2.34	pCi/g	GSS				0.1%	OK
SEAARC2004SS062760	DUP	Ra-226	5.00	0.26	0.13	pCi/g	GSS				0.4%	OK
SEAARC2004SS062760	DUP	RA-228	0.69	0.10	0.18	pCi/g	GSS				21.4%	OK
SEAARC2004SS062760	DUP	TH-228	0.69	0.10	0.18	pCi/g	GSS				21.4%	OK
SEAARC2004SS062760	DUP	Th-230	138.76	18.14	21.50	pCi/g	GSS				2.3%	OK
SEAARC2004SS062760	DUP	TH-232	0.69	0.10	0.18	pCi/g	GSS				21.4%	OK
SEAARC2004SS062760	DUP	U-235	2.17	0.28	0.53	pCi/g	GSS	*			NC	3.48
SEAARC2004SS062760	DUP	U-238	9.70	1.58	2.22	pCi/g	GSS	*			36.4%	2.58
SEAARC2004SS062760	REG	Ac-227	6.18	0.51	0.54	pCi/g	GSS		=			
SEAARC2004SS062760	REG	Am-241	-0.09		0.37	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS062760	REG	Cs-137	0.13		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS062760	REG	K-40	10.28	1.65	1.59	pCi/g	GSS		=			
SEAARC2004SS062760	REG	Pa-231	6.46	1.50	2.68	pCi/g	GSS		=			
SEAARC2004SS062760	REG	Ra-226	5.02	0.28	0.14	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2004SS062760	REG	RA-228	0.56	0.11	0.22	pCi/g	GSS		=			
SEAARC2004SS062760	REG	TH-228	0.56	0.11	0.22	pCi/g	GSS		=			
SEAARC2004SS062760	REG	Th-230	142.03	20.40	24.20	pCi/g	GSS		=			
SEAARC2004SS062760	REG	TH-232	0.56	0.11	0.22	pCi/g	GSS		=			
SEAARC2004SS062760	REG	U-235	2.67		1.11	pCi/g	GSS	U*	U	T04		
SEAARC2004SS062760	REG	U-238	6.71	1.63	2.47	pCi/g	GSS	*	J	J01		
SEAARC2004SS062940	REG	Ac-227	1.45	0.23	0.40	pCi/g	GSS		=			
SEAARC2004SS062940	REG	Am-241	0.17		0.30	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS062940	REG	Cs-137	0.10		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS062940	REG	K-40	8.36	1.96	2.32	pCi/g	GSS		=			
SEAARC2004SS062940	REG	Pa-231	-0.66		4.39	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS062940	REG	Ra-226	1.49	0.13	0.14	pCi/g	GSS		=			
SEAARC2004SS062940	REG	RA-228	0.53	0.11	0.22	pCi/g	GSS		=			
SEAARC2004SS062940	REG	TH-228	0.53	0.11	0.22	pCi/g	GSS		=			
SEAARC2004SS062940	REG	Th-230	46.84	10.21	17.10	pCi/g	GSS		=			
SEAARC2004SS062940	REG	TH-232	0.53	0.11	0.22	pCi/g	GSS		=			
SEAARC2004SS062940	REG	U-235	1.09		0.76	pCi/g	GSS	U*	U	T04		
SEAARC2004SS062940	REG	U-238	3.98	1.01	1.79	pCi/g	GSS	*	J	J01		
SEAARC2004SS063000	REG	Ac-227	4.60	0.33	0.32	pCi/g	GSS		=			
SEAARC2004SS063000	REG	Am-241	-0.08		0.21	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS063000	REG	Cs-137	0.10		0.09	pCi/g	GSS	U	U	T04		
SEAARC2004SS063000	REG	K-40	12.77	1.54	0.96	pCi/g	GSS		=			
SEAARC2004SS063000	REG	Pa-231	4.02	0.83	1.51	pCi/g	GSS		=			
SEAARC2004SS063000	REG	Ra-226	4.22	0.20	0.09	pCi/g	GSS		=			
SEAARC2004SS063000	REG	RA-228	0.79	0.08	0.14	pCi/g	GSS		=			
SEAARC2004SS063000	REG	TH-228	0.79	0.08	0.14	pCi/g	GSS		=			
SEAARC2004SS063000	REG	Th-230	132.55	15.71	13.20	pCi/g	GSS		=			
SEAARC2004SS063000	REG	TH-232	0.79	0.08	0.14	pCi/g	GSS		=			
SEAARC2004SS063000	REG	U-235	1.38	0.17	0.34	pCi/g	GSS	*	J	J01		
SEAARC2004SS063000	REG	U-238	11.57	1.15	1.36	pCi/g	GSS	*	J	J01		
SEAARC2004SS063300	REG	Ac-227	-0.57		0.84	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS063300	REG	Am-241	-0.02		0.17	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS063300	REG	Cs-137	0.05	0.03	0.06	pCi/g	GSS	U	U	T05		
SEAARC2004SS063300	REG	K-40	7.67	1.39	1.44	pCi/g	GSS		=			
SEAARC2004SS063300	REG	Pa-231	1.97		2.71	pCi/g	GSS	U	U	T04, T05		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2004SS063300	REG	Ra-226	0.82	0.07	0.09	pCi/g	GSS		=			
SEAARC2004SS063300	REG	RA-228	0.97	0.11	0.15	pCi/g	GSS		=			
SEAARC2004SS063300	REG	TH-228	0.97	0.11	0.15	pCi/g	GSS		=			
SEAARC2004SS063300	REG	Th-230	6.04		16.10	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS063300	REG	TH-232	0.97	0.11	0.15	pCi/g	GSS		=			
SEAARC2004SS063300	REG	U-235	0.10		0.42	pCi/g	GSS	U*	U	T04, T05		
SEAARC2004SS063300	REG	U-238	1.03	0.45	0.97	pCi/g	GSS	*	J	J01		
SEAARC2004SS063960	REG	Ac-227	1.10	0.18	0.29	pCi/g	GSS		=			
SEAARC2004SS063960	REG	Am-241	-0.05		0.19	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2004SS063960	REG	Cs-137	0.04		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2004SS063960	REG	K-40	9.29	1.46	1.41	pCi/g	GSS		=			
SEAARC2004SS063960	REG	Pa-231	1.32	0.77	1.43	pCi/g	GSS	U	U	T05		
SEAARC2004SS063960	REG	Ra-226	1.20	0.09	0.09	pCi/g	GSS		=			
SEAARC2004SS063960	REG	RA-228	0.55	0.09	0.14	pCi/g	GSS		=			
SEAARC2004SS063960	REG	TH-228	0.55	0.09	0.14	pCi/g	GSS		=			
SEAARC2004SS063960	REG	Th-230	28.10	7.48	11.60	pCi/g	GSS		=			
SEAARC2004SS063960	REG	TH-232	0.55	0.09	0.14	pCi/g	GSS		=			
SEAARC2004SS063960	REG	U-235	0.60		0.54	pCi/g	GSS	U*	U	T04		
SEAARC2004SS063960	REG	U-238	2.92	0.66	1.20	pCi/g	GSS	*	J	J01		
SEAARC2005SS062880	REG	Ac-227	0.67	0.13	0.26	pCi/g	GSS		=			
SEAARC2005SS062880	REG	Am-241	0.09		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARC2005SS062880	REG	Cs-137	0.10		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2005SS062880	REG	K-40	10.81	2.90	1.25	pCi/g	GSS		=			
SEAARC2005SS062880	REG	Pa-231	-0.23		2.54	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2005SS062880	REG	Ra-226	1.08	0.16	1.23	pCi/g	GSS		U	T05		
SEAARC2005SS062880	REG	RA-228	0.63	0.09	0.14	pCi/g	GSS		=			
SEAARC2005SS062880	REG	TH-228	0.63	0.09	0.14	pCi/g	GSS		=			
SEAARC2005SS062880	REG	Th-230	16.33	5.06	9.61	pCi/g	GSS		=			
SEAARC2005SS062880	REG	TH-232	0.63	0.09	0.14	pCi/g	GSS		=			
SEAARC2005SS062880	REG	U-235	0.04		0.43	pCi/g	GSS	U	U	T04, T05		
SEAARC2005SS062880	REG	U-238	1.92	0.53	1.00	pCi/g	GSS		=			
SEAARC2005SS063120	REG	Ac-227	1.03	0.16	0.31	pCi/g	GSS		=			
SEAARC2005SS063120	REG	Am-241	0.02		0.20	pCi/g	GSS	U	U	T04, T05		
SEAARC2005SS063120	REG	Cs-137	-0.01		0.11	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2005SS063120	REG	K-40	11.87	1.58	1.31	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2005SS063120	REG	Pa-231	0.23		2.95	pCi/g	GSS	U	U	T04, T05		
SEAARC2005SS063120	REG	Ra-226	1.48	0.11	0.09	pCi/g	GSS		=			
SEAARC2005SS063120	REG	RA-228	0.62	0.09	0.14	pCi/g	GSS		=			
SEAARC2005SS063120	REG	TH-228	0.62	0.09	0.14	pCi/g	GSS		=			
SEAARC2005SS063120	REG	Th-230	28.49	6.51	11.70	pCi/g	GSS		=			
SEAARC2005SS063120	REG	TH-232	0.62	0.09	0.14	pCi/g	GSS		=			
SEAARC2005SS063120	REG	U-235	0.80		0.55	pCi/g	GSS	U	U	T04		
SEAARC2005SS063120	REG	U-238	3.30	0.70	1.22	pCi/g	GSS		=			
SEAARC2005SS063240	REG	Ac-227	21.17	1.12	0.84	pCi/g	GSS		=			
SEAARC2005SS063240	REG	Am-241	-0.32		0.60	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2005SS063240	REG	Cs-137	0.05		0.22	pCi/g	GSS	U	U	T04, T05		
SEAARC2005SS063240	REG	K-40	13.45	3.55	1.75	pCi/g	GSS		=			
SEAARC2005SS063240	REG	Pa-231	22.96	2.67	3.87	pCi/g	GSS		=			
SEAARC2005SS063240	REG	Ra-226	14.39	1.29	0.22	pCi/g	GSS		=			
SEAARC2005SS063240	REG	RA-228	1.05	0.14	0.31	pCi/g	GSS		=			
SEAARC2005SS063240	REG	TH-228	1.05	0.14	0.31	pCi/g	GSS		=			
SEAARC2005SS063240	REG	Th-230	546.92	55.36	37.10	pCi/g	GSS		=			
SEAARC2005SS063240	REG	TH-232	1.05	0.14	0.31	pCi/g	GSS		=			
SEAARC2005SS063240	REG	U-235	4.08	0.45	0.92	pCi/g	GSS		=			
SEAARC2005SS063240	REG	U-238	31.33	3.18	3.83	pCi/g	GSS		=			
SEAARC2005SS063480	REG	Ac-227	2.47	0.29	0.40	pCi/g	GSS		=			
SEAARC2005SS063480	REG	Am-241	-0.12		0.25	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2005SS063480	REG	Cs-137	0.14		0.14	pCi/g	GSS	U	U	T04		
SEAARC2005SS063480	REG	K-40	8.81	1.40	1.40	pCi/g	GSS		=			
SEAARC2005SS063480	REG	Pa-231	3.28	0.88	1.89	pCi/g	GSS		=			
SEAARC2005SS063480	REG	Ra-226	3.51	0.19	0.12	pCi/g	GSS		=			
SEAARC2005SS063480	REG	RA-228	0.63	0.09	0.19	pCi/g	GSS		=			
SEAARC2005SS063480	REG	TH-228	0.63	0.09	0.19	pCi/g	GSS		=			
SEAARC2005SS063480	REG	Th-230	63.05	10.08	15.50	pCi/g	GSS		=			
SEAARC2005SS063480	REG	TH-232	0.63	0.09	0.19	pCi/g	GSS		=			
SEAARC2005SS063480	REG	U-235	1.23	0.20	0.42	pCi/g	GSS		=			
SEAARC2005SS063480	REG	U-238	4.39	0.88	1.59	pCi/g	GSS		=			
SEAARC2006SS062700	REG	Ac-227	-0.03		0.61	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2006SS062700	REG	Am-241	0.10	0.04	0.09	pCi/g	GSS		=			
SEAARC2006SS062700	REG	Cs-137	-0.01		0.10	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2006SS062700	REG	K-40	9.59	1.46	1.44	pCi/g	GSS		=			
SEAARC2006SS062700	REG	Pa-231	0.83		2.17	pCi/g	GSS	U	U	T04, T05		
SEAARC2006SS062700	REG	Ra-226	0.59	0.06	0.08	pCi/g	GSS		=			
SEAARC2006SS062700	REG	RA-228	0.46	0.08	0.12	pCi/g	GSS		=			
SEAARC2006SS062700	REG	TH-228	0.46	0.08	0.12	pCi/g	GSS		=			
SEAARC2006SS062700	REG	Th-230	8.17	3.63	7.87	pCi/g	GSS		=			
SEAARC2006SS062700	REG	TH-232	0.46	0.08	0.12	pCi/g	GSS		=			
SEAARC2006SS062700	REG	U-235	-0.07		0.34	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2006SS062700	REG	U-238	1.39	0.44	0.82	pCi/g	GSS		=			
SEAARC2006SS062820	REG	Ac-227	21.33	1.03	0.58	pCi/g	GSS		=			
SEAARC2006SS062820	REG	Am-241	-0.24		0.43	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2006SS062820	REG	Cs-137	-0.02		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2006SS062820	REG	K-40	9.64	1.35	1.23	pCi/g	GSS		=			
SEAARC2006SS062820	REG	Pa-231	24.03	3.42	2.61	pCi/g	GSS		=			
SEAARC2006SS062820	REG	Ra-226	12.15	0.54	0.14	pCi/g	GSS		=			
SEAARC2006SS062820	REG	RA-228	0.79	0.10	0.21	pCi/g	GSS		=			
SEAARC2006SS062820	REG	TH-228	0.79	0.10	0.21	pCi/g	GSS		=			
SEAARC2006SS062820	REG	Th-230	529.46	53.65	26.60	pCi/g	GSS		=			
SEAARC2006SS062820	REG	TH-232	0.79	0.10	0.21	pCi/g	GSS		=			
SEAARC2006SS062820	REG	U-235	3.44	0.36	0.64	pCi/g	GSS	*	J	J01		
SEAARC2006SS062820	REG	U-238	33.97	3.12	2.75	pCi/g	GSS	*	J	J01		
SEAARC2006SS062880	REG	Ac-227	25.06	1.28	0.86	pCi/g	GSS		=			
SEAARC2006SS062880	REG	Am-241	-0.40		0.58	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2006SS062880	REG	Cs-137	0.00		0.21	pCi/g	GSS	U	U	T04, T05		
SEAARC2006SS062880	REG	K-40	8.13	1.52	1.82	pCi/g	GSS		=			
SEAARC2006SS062880	REG	Pa-231	28.06	3.38	3.84	pCi/g	GSS		=			
SEAARC2006SS062880	REG	Ra-226	12.44	0.58	0.21	pCi/g	GSS		=			
SEAARC2006SS062880	REG	RA-228	0.78	0.13	0.30	pCi/g	GSS		=			
SEAARC2006SS062880	REG	TH-228	0.78	0.13	0.30	pCi/g	GSS		=			
SEAARC2006SS062880	REG	Th-230	525.42	55.95	36.60	pCi/g	GSS		=			
SEAARC2006SS062880	REG	TH-232	0.78	0.13	0.30	pCi/g	GSS		=			
SEAARC2006SS062880	REG	U-235	4.71	0.51	0.96	pCi/g	GSS		=			
SEAARC2006SS062880	REG	U-238	33.47	3.51	3.75	pCi/g	GSS		=			
SEAARC2006SS063180	REG	Ac-227	1.84	0.26	0.34	pCi/g	GSS		=			
SEAARC2006SS063180	REG	Am-241	-0.03		0.24	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2006SS063180	REG	Cs-137	0.05		0.14	pCi/g	GSS	U	U	T04, T05		
SEAARC2006SS063180	REG	K-40	5.14	1.48	1.93	pCi/g	GSS		=			
SEAARC2006SS063180	REG	Pa-231	2.20	0.77	1.71	pCi/g	GSS		=			
SEAARC2006SS063180	REG	Ra-226	1.36	0.11	0.11	pCi/g	GSS		=			
SEAARC2006SS063180	REG	RA-228	0.54	0.10	0.17	pCi/g	GSS		=			
SEAARC2006SS063180	REG	TH-228	0.54	0.10	0.17	pCi/g	GSS		=			
SEAARC2006SS063180	REG	Th-230	53.02	9.61	14.20	pCi/g	GSS		=			
SEAARC2006SS063180	REG	TH-232	0.54	0.10	0.17	pCi/g	GSS		=			
SEAARC2006SS063180	REG	U-235	0.87	0.18	0.36	pCi/g	GSS		=			
SEAARC2006SS063180	REG	U-238	3.69	0.86	1.45	pCi/g	GSS		=			
SEAARC2006SS063780	REG	Ac-227	-0.24		0.48	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2006SS063780	REG	Am-241	-0.03		0.10	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2006SS063780	REG	Cs-137	0.04	0.02	0.04	pCi/g	GSS		=			
SEAARC2006SS063780	REG	K-40	9.27	1.19	0.99	pCi/g	GSS		=			
SEAARC2006SS063780	REG	Pa-231	0.78		1.57	pCi/g	GSS	U	U	T04, T05		
SEAARC2006SS063780	REG	Ra-226	0.56	0.04	0.06	pCi/g	GSS		=			
SEAARC2006SS063780	REG	RA-228	0.57	0.06	0.10	pCi/g	GSS		=			
SEAARC2006SS063780	REG	TH-228	0.57	0.06	0.10	pCi/g	GSS		=			
SEAARC2006SS063780	REG	Th-230	0.03		9.69	pCi/g	GSS	U	U	T04, T05		
SEAARC2006SS063780	REG	TH-232	0.57	0.06	0.10	pCi/g	GSS		=			
SEAARC2006SS063780	REG	U-235	0.09		0.25	pCi/g	GSS	U	U	T04, T05		
SEAARC2006SS063780	REG	U-238	0.59	0.27	0.59	pCi/g	GSS	U	U	T05		
SEAARC2007SS062220	REG	Ac-227	2.92	0.29	0.34	pCi/g	GSS		=			
SEAARC2007SS062220	REG	Am-241	-0.05		0.25	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2007SS062220	REG	Cs-137	0.00		0.13	pCi/g	GSS	U	U	T04, T05		
SEAARC2007SS062220	REG	K-40	7.37	1.63	2.08	pCi/g	GSS		=			
SEAARC2007SS062220	REG	Pa-231	3.09	0.83	1.72	pCi/g	GSS		=			
SEAARC2007SS062220	REG	Ra-226	2.46	0.16	0.12	pCi/g	GSS		=			
SEAARC2007SS062220	REG	RA-228	0.61	0.09	0.16	pCi/g	GSS		=			
SEAARC2007SS062220	REG	TH-228	0.61	0.09	0.16	pCi/g	GSS		=			
SEAARC2007SS062220	REG	Th-230	96.24	14.41	14.90	pCi/g	GSS		=			
SEAARC2007SS062220	REG	TH-232	0.61	0.09	0.16	pCi/g	GSS		=			
SEAARC2007SS062220	REG	U-235	1.75		0.66	pCi/g	GSS	U	U	T04		
SEAARC2007SS062220	REG	U-238	5.93	1.04	1.55	pCi/g	GSS		=			
SEAARC2007SS062400	REG	Ac-227	1.13	0.19	0.33	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2007SS062400	REG	Am-241	0.03		0.23	pCi/g	GSS	U	U	T04, T05		
SEAARC2007SS062400	REG	Cs-137	-0.04		0.11	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2007SS062400	REG	K-40	15.35	2.01	1.37	pCi/g	GSS		=			
SEAARC2007SS062400	REG	Pa-231	0.64		3.25	pCi/g	GSS	U	U	T04, T05		
SEAARC2007SS062400	REG	Ra-226	1.86	0.12	0.10	pCi/g	GSS		=			
SEAARC2007SS062400	REG	RA-228	0.74	0.10	0.14	pCi/g	GSS		=			
SEAARC2007SS062400	REG	TH-228	0.74	0.10	0.14	pCi/g	GSS		=			
SEAARC2007SS062400	REG	Th-230	30.98	8.10	13.20	pCi/g	GSS		=			
SEAARC2007SS062400	REG	TH-232	0.74	0.10	0.14	pCi/g	GSS		=			
SEAARC2007SS062400	REG	U-235	0.66	0.15	0.35	pCi/g	GSS		=			
SEAARC2007SS062400	REG	U-238	2.97	0.72	1.38	pCi/g	GSS		=			
SEAARC2007SS062580	REG	Ac-227	8.35	0.48	0.37	pCi/g	GSS		=			
SEAARC2007SS062580	REG	Am-241	-0.06		0.27	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2007SS062580	REG	Cs-137	0.11		0.10	pCi/g	GSS	U	U	T04		
SEAARC2007SS062580	REG	K-40	10.98	1.21	0.89	pCi/g	GSS		=			
SEAARC2007SS062580	REG	Pa-231	9.52	1.15	1.71	pCi/g	GSS		=			
SEAARC2007SS062580	REG	Ra-226	6.16	0.27	0.10	pCi/g	GSS		=			
SEAARC2007SS062580	REG	RA-228	0.75	0.08	0.14	pCi/g	GSS		=			
SEAARC2007SS062580	REG	TH-228	0.75	0.08	0.14	pCi/g	GSS		=			
SEAARC2007SS062580	REG	Th-230	197.96	21.16	16.30	pCi/g	GSS		=			
SEAARC2007SS062580	REG	TH-232	0.75	0.08	0.14	pCi/g	GSS		=			
SEAARC2007SS062580	REG	U-235	1.86	0.20	0.42	pCi/g	GSS		=			
SEAARC2007SS062580	REG	U-238	17.45	1.76	1.68	pCi/g	GSS		=			
SEAARC2007SS062820	REG	Ac-227	0.25	0.13	0.25	pCi/g	GSS	U	U	T05		
SEAARC2007SS062820	REG	Am-241	0.03		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC2007SS062820	REG	Cs-137	0.04		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC2007SS062820	REG	K-40	11.87	1.71	1.32	pCi/g	GSS		=			
SEAARC2007SS062820	REG	Pa-231	-0.87		2.51	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2007SS062820	REG	Ra-226	0.85	0.07	0.09	pCi/g	GSS		=			
SEAARC2007SS062820	REG	RA-228	0.82	0.10	0.14	pCi/g	GSS		=			
SEAARC2007SS062820	REG	TH-228	0.82	0.10	0.14	pCi/g	GSS		=			
SEAARC2007SS062820	REG	Th-230	11.00		16.30	pCi/g	GSS	U	U	T04, T05		
SEAARC2007SS062820	REG	TH-232	0.82	0.10	0.14	pCi/g	GSS		=			
SEAARC2007SS062820	REG	U-235	0.06		0.42	pCi/g	GSS	U	U	T04, T05		
SEAARC2007SS062820	REG	U-238	1.79	0.51	0.97	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2008SS062580	REG	Ac-227	0.11		0.61	pCi/g	GSS	U	U	T04, T05		
SEAARC2008SS062580	REG	Am-241	-0.06		0.14	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2008SS062580	REG	Cs-137	0.04		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC2008SS062580	REG	K-40	10.49	1.60	1.27	pCi/g	GSS		=			
SEAARC2008SS062580	REG	Pa-231	0.13		2.05	pCi/g	GSS	U	U	T04, T05		
SEAARC2008SS062580	REG	Ra-226	0.45	0.05	0.08	pCi/g	GSS		=			
SEAARC2008SS062580	REG	RA-228	0.61	0.09	0.12	pCi/g	GSS		=			
SEAARC2008SS062580	REG	TH-228	0.61	0.09	0.12	pCi/g	GSS		=			
SEAARC2008SS062580	REG	Th-230	-0.57		12.60	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2008SS062580	REG	TH-232	0.61	0.09	0.12	pCi/g	GSS		=			
SEAARC2008SS062580	REG	U-235	0.24		0.36	pCi/g	GSS	U	U	T04, T05		
SEAARC2008SS062580	REG	U-238	0.69	0.37	0.79	pCi/g	GSS	U	U	T05		
SEAARC2009SS063960	REG	Ac-227	3.06	0.31	0.42	pCi/g	GSS		=			
SEAARC2009SS063960	REG	Am-241	-0.07		0.27	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2009SS063960	REG	Cs-137	0.10		0.14	pCi/g	GSS	U	U	T04, T05		
SEAARC2009SS063960	REG	K-40	13.23	1.92	1.69	pCi/g	GSS		=			
SEAARC2009SS063960	REG	Pa-231	2.78	0.96	2.03	pCi/g	GSS		=			
SEAARC2009SS063960	REG	Ra-226	2.72	0.17	0.13	pCi/g	GSS		=			
SEAARC2009SS063960	REG	RA-228	0.85	0.12	0.20	pCi/g	GSS		=			
SEAARC2009SS063960	REG	TH-228	0.85	0.12	0.20	pCi/g	GSS		=			
SEAARC2009SS063960	REG	Th-230	80.41	11.78	17.30	pCi/g	GSS		=			
SEAARC2009SS063960	REG	TH-232	0.85	0.12	0.20	pCi/g	GSS		=			
SEAARC2009SS063960	REG	U-235	1.98		0.78	pCi/g	GSS	U	U	T04		
SEAARC2009SS063960	REG	U-238	6.86	1.14	1.76	pCi/g	GSS		=			
SEAARC2009SS123900	REG	Ac-227	3.77	0.35	0.42	pCi/g	GSS		=			
SEAARC2009SS123900	REG	Am-241	0.04		0.29	pCi/g	GSS	U	U	T04, T05		
SEAARC2009SS123900	REG	Cs-137	0.11		0.13	pCi/g	GSS	U	U	T04, T05		
SEAARC2009SS123900	REG	K-40	11.44	1.81	1.37	pCi/g	GSS		=			
SEAARC2009SS123900	REG	Pa-231	4.46	1.08	2.04	pCi/g	GSS		=			
SEAARC2009SS123900	REG	Ra-226	3.27	0.19	0.12	pCi/g	GSS		=			
SEAARC2009SS123900	REG	RA-228	0.79	0.10	0.18	pCi/g	GSS		=			
SEAARC2009SS123900	REG	TH-228	0.79	0.10	0.18	pCi/g	GSS		=			
SEAARC2009SS123900	REG	Th-230	89.90	14.27	17.40	pCi/g	GSS		=			
SEAARC2009SS123900	REG	TH-232	0.79	0.10	0.18	pCi/g	GSS		=			
SEAARC2009SS123900	REG	U-235	1.68		0.79	pCi/g	GSS	U	U	T04		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2009SS123900	REG	U-238	6.50	1.05	1.80	pCi/g	GSS		=			
SEAARC2009SS124320	REG	Ac-227	6.28	0.42	0.39	pCi/g	GSS		=			
SEAARC2009SS124320	REG	Am-241	-0.21		0.28	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2009SS124320	REG	Cs-137	0.13		0.12	pCi/g	GSS	U	U	T04		
SEAARC2009SS124320	REG	K-40	7.96	1.26	1.30	pCi/g	GSS		=			
SEAARC2009SS124320	REG	Pa-231	6.22	1.44	1.75	pCi/g	GSS		=			
SEAARC2009SS124320	REG	Ra-226	5.57	0.27	0.11	pCi/g	GSS		=			
SEAARC2009SS124320	REG	RA-228	0.66	0.08	0.17	pCi/g	GSS		=			
SEAARC2009SS124320	REG	TH-228	0.66	0.08	0.17	pCi/g	GSS		=			
SEAARC2009SS124320	REG	Th-230	171.91	24.38	16.90	pCi/g	GSS		=			
SEAARC2009SS124320	REG	TH-232	0.66	0.08	0.17	pCi/g	GSS		=			
SEAARC2009SS124320	REG	U-235	2.40	0.25	0.42	pCi/g	GSS		=			
SEAARC2009SS124320	REG	U-238	13.10	1.40	1.75	pCi/g	GSS		=			
SEAARC2009SS124440	REG	Ac-227	0.77	0.11	0.19	pCi/g	GSS		=			
SEAARC2009SS124440	REG	Am-241	-0.02		0.12	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2009SS124440	REG	Cs-137	0.07		0.07	pCi/g	GSS	U	U	T04, T05		
SEAARC2009SS124440	REG	K-40	6.57	0.91	0.93	pCi/g	GSS		=			
SEAARC2009SS124440	REG	Pa-231	1.02	0.48	0.95	pCi/g	GSS		=			
SEAARC2009SS124440	REG	Ra-226	1.24	0.08	0.06	pCi/g	GSS		=			
SEAARC2009SS124440	REG	RA-228	0.50	0.06	0.10	pCi/g	GSS		=			
SEAARC2009SS124440	REG	TH-228	0.50	0.06	0.10	pCi/g	GSS		=			
SEAARC2009SS124440	REG	Th-230	19.89	4.08	7.41	pCi/g	GSS		=			
SEAARC2009SS124440	REG	TH-232	0.50	0.06	0.10	pCi/g	GSS		=			
SEAARC2009SS124440	REG	U-235	0.66		0.34	pCi/g	GSS	U	U	T04		
SEAARC2009SS124440	REG	U-238	1.94	0.40	0.77	pCi/g	GSS		=			
SEAARC2010SS063660	REG	Ac-227	2.02	0.24	0.34	pCi/g	GSS		=			
SEAARC2010SS063660	REG	Am-241	0.25		0.24	pCi/g	GSS	U	U	T04		
SEAARC2010SS063660	REG	Cs-137	0.03		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2010SS063660	REG	K-40	7.70	1.33	1.36	pCi/g	GSS		=			
SEAARC2010SS063660	REG	Pa-231	2.02	0.68	1.58	pCi/g	GSS		=			
SEAARC2010SS063660	REG	Ra-226	1.65	0.12	0.10	pCi/g	GSS		=			
SEAARC2010SS063660	REG	RA-228	0.56	0.09	0.14	pCi/g	GSS		=			
SEAARC2010SS063660	REG	TH-228	0.56	0.09	0.14	pCi/g	GSS		=			
SEAARC2010SS063660	REG	Th-230	59.43	9.16	13.90	pCi/g	GSS		=			
SEAARC2010SS063660	REG	TH-232	0.56	0.09	0.14	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2010SS063660	REG	U-235	1.04		0.64	pCi/g	GSS	U	U	T04		
SEAARC2010SS063660	REG	U-238	3.46	0.90	1.44	pCi/g	GSS		=			
SEAARC2010SS063900	REG	Ac-227	-0.30		0.73	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2010SS063900	REG	Am-241	-0.06		0.14	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2010SS063900	REG	Cs-137	0.06		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2010SS063900	REG	K-40	12.68	1.66	1.33	pCi/g	GSS		=			
SEAARC2010SS063900	REG	Pa-231	2.09		2.50	pCi/g	GSS	U	U	T04, T05		
SEAARC2010SS063900	REG	Ra-226	0.70	0.07	0.08	pCi/g	GSS		=			
SEAARC2010SS063900	REG	RA-228	0.73	0.10	0.14	pCi/g	GSS		=			
SEAARC2010SS063900	REG	TH-228	0.73	0.10	0.14	pCi/g	GSS		=			
SEAARC2010SS063900	REG	Th-230	11.85		15.70	pCi/g	GSS	U	U	T04, T05		
SEAARC2010SS063900	REG	TH-232	0.73	0.10	0.14	pCi/g	GSS		=			
SEAARC2010SS063900	REG	U-235	-0.05		0.41	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2010SS063900	REG	U-238	0.70	0.42	0.93	pCi/g	GSS	U	U	T05		
SEAARC2010SS064020	REG	Ac-227	15.28	0.92	0.62	pCi/g	GSS		=			
SEAARC2010SS064020	REG	Am-241	-0.23		0.47	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2010SS064020	REG	Cs-137	0.06	0.04	0.08	pCi/g	GSS	U	U	T05		
SEAARC2010SS064020	REG	K-40	10.56	1.49	1.52	pCi/g	GSS		=			
SEAARC2010SS064020	REG	Pa-231	18.66	2.29	2.88	pCi/g	GSS		=			
SEAARC2010SS064020	REG	Ra-226	8.05	0.39	0.16	pCi/g	GSS		=			
SEAARC2010SS064020	REG	RA-228	1.07	0.12	0.22	pCi/g	GSS		=			
SEAARC2010SS064020	REG	TH-228	1.07	0.12	0.22	pCi/g	GSS		=			
SEAARC2010SS064020	REG	Th-230	400.05	43.39	28.60	pCi/g	GSS		=			
SEAARC2010SS064020	REG	TH-232	1.07	0.12	0.22	pCi/g	GSS		=			
SEAARC2010SS064020	REG	U-235	3.33	0.36	0.70	pCi/g	GSS		=			
SEAARC2010SS064020	REG	U-238	26.46	3.03	2.93	pCi/g	GSS		=			
SEAARC2011SS063300	REG	Ac-227	0.12		0.23	pCi/g	GSS	U	U	T04, T05		
SEAARC2011SS063300	REG	Am-241	0.05		0.07	pCi/g	GSS	U	U	T04, T05		
SEAARC2011SS063300	REG	Cs-137	-0.02		0.07	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2011SS063300	REG	K-40	-2.02	0.86	1.57	pCi/g	GSS	U	UJ	T06		
SEAARC2011SS063300	REG	Pa-231	0.56		1.38	pCi/g	GSS	U	U	T04, T05		
SEAARC2011SS063300	REG	Ra-226	0.12		0.10	pCi/g	GSS	U	U	T04		
SEAARC2011SS063300	REG	RA-228	0.13		0.19	pCi/g	GSS	U	U	T04, T05		
SEAARC2011SS063300	REG	TH-228	0.13		0.19	pCi/g	GSS	U	U	T04, T05		
SEAARC2011SS063300	REG	Th-230	7.62		6.34	pCi/g	GSS	U	U	T04		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2011SS063300	REG	TH-232	0.13		0.19	pCi/g	GSS	U	U	T04, T05		
SEAARC2011SS063300	REG	U-235	-0.01		0.18	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2011SS063300	REG	U-238	0.32	0.18	0.39	pCi/g	GSS	U	U	T05		
SEAARC2012SS068700	REG	Ac-227	2.71	0.28	0.37	pCi/g	GSS		=			
SEAARC2012SS068700	REG	Am-241	-0.18		0.25	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2012SS068700	REG	Cs-137	0.15		0.12	pCi/g	GSS	U	U	T04		
SEAARC2012SS068700	REG	K-40	12.21	1.60	1.32	pCi/g	GSS		=			
SEAARC2012SS068700	REG	Pa-231	2.32	0.86	1.80	pCi/g	GSS		=			
SEAARC2012SS068700	REG	Ra-226	2.47	0.15	0.11	pCi/g	GSS		=			
SEAARC2012SS068700	REG	RA-228	0.73	0.10	0.14	pCi/g	GSS		=			
SEAARC2012SS068700	REG	TH-228	0.73	0.10	0.14	pCi/g	GSS		=			
SEAARC2012SS068700	REG	Th-230	69.69	10.19	15.20	pCi/g	GSS		=			
SEAARC2012SS068700	REG	TH-232	0.73	0.10	0.14	pCi/g	GSS		=			
SEAARC2012SS068700	REG	U-235	1.36		0.68	pCi/g	GSS	U	U	T04		
SEAARC2012SS068700	REG	U-238	4.44	0.86	1.57	pCi/g	GSS		=			
SEAARC2012SS068760	REG	Ac-227	-0.20		0.78	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2012SS068760	REG	Am-241	0.02		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARC2012SS068760	REG	Cs-137	0.06	0.03	0.06	pCi/g	GSS		=			
SEAARC2012SS068760	REG	K-40	10.52	1.56	1.41	pCi/g	GSS		=			
SEAARC2012SS068760	REG	Pa-231	-0.22		2.74	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2012SS068760	REG	Ra-226	1.20	0.09	0.10	pCi/g	GSS		=			
SEAARC2012SS068760	REG	RA-228	0.68	0.09	0.15	pCi/g	GSS		=			
SEAARC2012SS068760	REG	TH-228	0.68	0.09	0.15	pCi/g	GSS		=			
SEAARC2012SS068760	REG	Th-230	6.81	4.35	10.20	pCi/g	GSS	U	U	T05		
SEAARC2012SS068760	REG	TH-232	0.68	0.09	0.15	pCi/g	GSS		=			
SEAARC2012SS068760	REG	U-235	0.28		0.46	pCi/g	GSS	U	U	T04, T05		
SEAARC2012SS068760	REG	U-238	1.92	0.57	1.06	pCi/g	GSS		=			
SEAARC2012SS068940	REG	Ac-227	0.00		0.63	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2012SS068940	REG	Am-241	-0.13		0.13	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2012SS068940	REG	Cs-137	0.04		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2012SS068940	REG	K-40	11.80	1.73	1.39	pCi/g	GSS		=			
SEAARC2012SS068940	REG	Pa-231	0.00		2.15	pCi/g	GSS	U	U	T04, T05		
SEAARC2012SS068940	REG	Ra-226	0.49	0.06	0.08	pCi/g	GSS		=			
SEAARC2012SS068940	REG	RA-228	0.61	0.09	0.13	pCi/g	GSS		=			
SEAARC2012SS068940	REG	TH-228	0.61	0.09	0.13	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2012SS068940	REG	Th-230	-1.48		13.90	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2012SS068940	REG	TH-232	0.61	0.09	0.13	pCi/g	GSS		=			
SEAARC2012SS068940	REG	U-235	0.06		0.38	pCi/g	GSS	U	U	T04, T05		
SEAARC2012SS068940	REG	U-238	0.57	0.38	0.82	pCi/g	GSS	U	U	T05		
SEAARC2013SS066360	REG	Ac-227	7.76	0.54	0.60	pCi/g	GSS		=			
SEAARC2013SS066360	REG	Am-241	-0.23		0.44	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2013SS066360	REG	Cs-137	0.17		0.18	pCi/g	GSS	U	U	T04, T05		
SEAARC2013SS066360	REG	K-40	14.28	1.94	1.74	pCi/g	GSS		=			
SEAARC2013SS066360	REG	Pa-231	8.83	1.57	2.80	pCi/g	GSS		=			
SEAARC2013SS066360	REG	Ra-226	6.01	0.31	0.16	pCi/g	GSS		=			
SEAARC2013SS066360	REG	RA-228	0.89	0.13	0.24	pCi/g	GSS		=			
SEAARC2013SS066360	REG	TH-228	0.89	0.13	0.24	pCi/g	GSS		=			
SEAARC2013SS066360	REG	Th-230	225.77	28.75	27.00	pCi/g	GSS		=			
SEAARC2013SS066360	REG	TH-232	0.89	0.13	0.24	pCi/g	GSS		=			
SEAARC2013SS066360	REG	U-235	2.79	0.32	0.65	pCi/g	GSS		=			
SEAARC2013SS066360	REG	U-238	24.85	2.78	2.79	pCi/g	GSS		=			
SEAARC2013SS126240	REG	Ac-227	2.02	0.26	0.36	pCi/g	GSS		=			
SEAARC2013SS126240	REG	Am-241	-0.17		0.25	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2013SS126240	REG	Cs-137	0.14		0.13	pCi/g	GSS	U	U	T04		
SEAARC2013SS126240	REG	K-40	14.95	1.77	1.28	pCi/g	GSS		=			
SEAARC2013SS126240	REG	Pa-231	1.85	0.68	1.79	pCi/g	GSS		=			
SEAARC2013SS126240	REG	Ra-226	2.26	0.13	0.11	pCi/g	GSS		=			
SEAARC2013SS126240	REG	RA-228	0.95	0.11	0.16	pCi/g	GSS		=			
SEAARC2013SS126240	REG	TH-228	0.95	0.11	0.16	pCi/g	GSS		=			
SEAARC2013SS126240	REG	Th-230	61.50	9.52	14.10	pCi/g	GSS		=			
SEAARC2013SS126240	REG	TH-232	0.95	0.11	0.16	pCi/g	GSS		=			
SEAARC2013SS126240	REG	U-235	0.92	0.16	0.38	pCi/g	GSS		=			
SEAARC2013SS126240	REG	U-238	5.82	0.92	1.47	pCi/g	GSS		=			
SEAARC2013SS246600	REG	Ac-227	2.59	0.26	0.39	pCi/g	GSS		=			
SEAARC2013SS246600	REG	Am-241	-0.06		0.28	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2013SS246600	REG	Cs-137	-0.03		0.13	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2013SS246600	REG	K-40	14.42	1.91	1.45	pCi/g	GSS		=			
SEAARC2013SS246600	REG	Pa-231	2.80	0.82	1.94	pCi/g	GSS		=			
SEAARC2013SS246600	REG	Ra-226	2.08	0.14	0.12	pCi/g	GSS		=			
SEAARC2013SS246600	REG	RA-228	0.83	0.11	0.19	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2013SS246600	REG	TH-228	0.83	0.11	0.19	pCi/g	GSS		=			
SEAARC2013SS246600	REG	Th-230	67.27	12.03	16.70	pCi/g	GSS		=			
SEAARC2013SS246600	REG	TH-232	0.83	0.11	0.19	pCi/g	GSS		=			
SEAARC2013SS246600	REG	U-235	1.15	0.18	0.40	pCi/g	GSS		=			
SEAARC2013SS246600	REG	U-238	9.28	1.60	1.72	pCi/g	GSS		=			
SEAARC2014SS061140	REG	Ac-227	3.10	0.24	0.29	pCi/g	GSS		=			
SEAARC2014SS061140	REG	Am-241	-0.21		0.19	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2014SS061140	REG	Cs-137	0.02		0.09	pCi/g	GSS	U	U	T04, T05		
SEAARC2014SS061140	REG	K-40	7.21	1.20	1.06	pCi/g	GSS		=			
SEAARC2014SS061140	REG	Pa-231	3.54	0.69	1.41	pCi/g	GSS		=			
SEAARC2014SS061140	REG	Ra-226	3.06	0.16	0.09	pCi/g	GSS		=			
SEAARC2014SS061140	REG	RA-228	0.68	0.07	0.13	pCi/g	GSS		=			
SEAARC2014SS061140	REG	TH-228	0.68	0.07	0.13	pCi/g	GSS		=			
SEAARC2014SS061140	REG	Th-230	66.06	10.39	11.80	pCi/g	GSS		=			
SEAARC2014SS061140	REG	TH-232	0.68	0.07	0.13	pCi/g	GSS		=			
SEAARC2014SS061140	REG	U-235	0.94	0.13	0.31	pCi/g	GSS		=			
SEAARC2014SS061140	REG	U-238	6.46	0.99	1.21	pCi/g	GSS		=			
SEAARC2015SS061260	REG	Ac-227	-0.03		0.47	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2015SS061260	REG	Am-241	0.02		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2015SS061260	REG	Cs-137	-0.01		0.09	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2015SS061260	REG	K-40	2.18	1.02	1.52	pCi/g	GSS		=			
SEAARC2015SS061260	REG	Pa-231	0.67		1.93	pCi/g	GSS	U	U	T04, T05		
SEAARC2015SS061260	REG	Ra-226	0.28	0.04	0.07	pCi/g	GSS		=			
SEAARC2015SS061260	REG	RA-228	0.36	0.06	0.12	pCi/g	GSS		=			
SEAARC2015SS061260	REG	TH-228	0.36	0.06	0.12	pCi/g	GSS		=			
SEAARC2015SS061260	REG	Th-230	-7.81		10.20	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2015SS061260	REG	TH-232	0.36	0.06	0.12	pCi/g	GSS		=			
SEAARC2015SS061260	REG	U-235	0.15		0.28	pCi/g	GSS	U	U	T04, T05		
SEAARC2015SS061260	REG	U-238	0.64	0.31	0.60	pCi/g	GSS		=			
SEAARC2016SS060120	DUP	Ac-227	-0.06		0.57	pCi/g	GSS	U			NC	NC
SEAARC2016SS060120	DUP	Am-241	0.04		0.11	pCi/g	GSS	U			NC	NC
SEAARC2016SS060120	DUP	Cs-137	0.10		0.08	pCi/g	GSS	U			NC	NC
SEAARC2016SS060120	DUP	K-40	10.85	1.27	1.00	pCi/g	GSS				1.4%	OK
SEAARC2016SS060120	DUP	Pa-231	0.95		1.75	pCi/g	GSS	U			NC	NC
SEAARC2016SS060120	DUP	Ra-226	0.84	0.06	0.07	pCi/g	GSS				5.1%	OK

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2016SS060120	DUP	RA-228	0.95	0.08	0.11	pCi/g	GSS				10.4%	OK
SEAARC2016SS060120	DUP	TH-228	0.95	0.08	0.11	pCi/g	GSS				10.4%	OK
SEAARC2016SS060120	DUP	Th-230	-5.22		10.70	pCi/g	GSS	U			NC	NC
SEAARC2016SS060120	DUP	TH-232	0.95	0.08	0.11	pCi/g	GSS				10.4%	OK
SEAARC2016SS060120	DUP	U-235	0.14		0.30	pCi/g	GSS	U			NC	NC
SEAARC2016SS060120	DUP	U-238	1.18	0.34	0.68	pCi/g	GSS				4.2%	OK
SEAARC2016SS060120	REG	Ac-227	-0.53		0.56	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060120	REG	Am-241	0.05		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS060120	REG	Cs-137	-0.02		0.07	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060120	REG	K-40	10.71	1.55	1.00	pCi/g	GSS		=			
SEAARC2016SS060120	REG	Pa-231	0.48		1.72	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS060120	REG	Ra-226	0.80	0.06	0.07	pCi/g	GSS		=			
SEAARC2016SS060120	REG	RA-228	1.05	0.09	0.10	pCi/g	GSS		=			
SEAARC2016SS060120	REG	TH-228	1.05	0.09	0.10	pCi/g	GSS		=			
SEAARC2016SS060120	REG	Th-230	2.83		10.70	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS060120	REG	TH-232	1.05	0.09	0.10	pCi/g	GSS		=			
SEAARC2016SS060120	REG	U-235	0.29		0.30	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS060120	REG	U-238	1.23	0.34	0.68	pCi/g	GSS		=			
SEAARC2016SS060300	REG	Ac-227	-0.20		1.07	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060300	REG	Am-241	-0.10		0.22	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060300	REG	Cs-137	0.14		0.15	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS060300	REG	K-40	8.01	1.66	1.85	pCi/g	GSS		=			
SEAARC2016SS060300	REG	Pa-231	-0.14		3.28	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060300	REG	Ra-226	1.09	0.09	0.12	pCi/g	GSS		=			
SEAARC2016SS060300	REG	RA-228	1.41	0.15	0.18	pCi/g	GSS		=			
SEAARC2016SS060300	REG	TH-228	1.41	0.15	0.18	pCi/g	GSS		=			
SEAARC2016SS060300	REG	Th-230	-9.82		20.40	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060300	REG	TH-232	1.41	0.15	0.18	pCi/g	GSS		=			
SEAARC2016SS060300	REG	U-235	0.46		0.55	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS060300	REG	U-238	1.70	0.63	1.26	pCi/g	GSS		=			
SEAARC2016SS060360	REG	Ac-227	-0.04		0.67	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060360	REG	Am-241	-0.05		0.14	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060360	REG	Cs-137	0.08		0.11	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS060360	REG	K-40	11.01	1.59	1.27	pCi/g	GSS		=			
SEAARC2016SS060360	REG	Pa-231	2.97		2.34	pCi/g	GSS	U	U	T04		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2016SS060360	REG	Ra-226	0.58	0.06	0.08	pCi/g	GSS		=			
SEAARC2016SS060360	REG	RA-228	0.64	0.09	0.13	pCi/g	GSS		=			
SEAARC2016SS060360	REG	TH-228	0.64	0.09	0.13	pCi/g	GSS		=			
SEAARC2016SS060360	REG	Th-230	-11.72		12.60	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060360	REG	TH-232	0.64	0.09	0.13	pCi/g	GSS		=			
SEAARC2016SS060360	REG	U-235	-0.18		0.35	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS060360	REG	U-238	0.71	0.39	0.81	pCi/g	GSS	U	U	T05		
SEAARC2016SS061440	REG	Ac-227	-0.16		0.45	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS061440	REG	Am-241	0.04		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS061440	REG	Cs-137	0.04	0.02	0.04	pCi/g	GSS		=			
SEAARC2016SS061440	REG	K-40	9.85	1.40	0.94	pCi/g	GSS		=			
SEAARC2016SS061440	REG	Pa-231	-0.85		1.43	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2016SS061440	REG	Ra-226	0.57	0.04	0.06	pCi/g	GSS		=			
SEAARC2016SS061440	REG	RA-228	0.53	0.06	0.09	pCi/g	GSS		=			
SEAARC2016SS061440	REG	TH-228	0.53	0.06	0.09	pCi/g	GSS		=			
SEAARC2016SS061440	REG	Th-230	1.38		9.62	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS061440	REG	TH-232	0.53	0.06	0.09	pCi/g	GSS		=			
SEAARC2016SS061440	REG	U-235	0.15		0.25	pCi/g	GSS	U	U	T04, T05		
SEAARC2016SS061440	REG	U-238	0.90	0.28	0.56	pCi/g	GSS		=			
SEAARC2017SS061260	REG	Ac-227	4.11	0.34	0.46	pCi/g	GSS		=			
SEAARC2017SS061260	REG	Am-241	0.10		0.32	pCi/g	GSS	U	U	T04, T05		
SEAARC2017SS061260	REG	Cs-137	0.14		0.14	pCi/g	GSS	U	U	T04, T05		
SEAARC2017SS061260	REG	K-40	5.86	1.33	1.53	pCi/g	GSS		=			
SEAARC2017SS061260	REG	Pa-231	5.83	1.16	2.11	pCi/g	GSS		=			
SEAARC2017SS061260	REG	Ra-226	3.02	0.19	0.13	pCi/g	GSS		=			
SEAARC2017SS061260	REG	RA-228	0.66	0.10	0.18	pCi/g	GSS		=			
SEAARC2017SS061260	REG	TH-228	0.66	0.10	0.18	pCi/g	GSS		=			
SEAARC2017SS061260	REG	Th-230	99.00	14.58	19.60	pCi/g	GSS		=			
SEAARC2017SS061260	REG	TH-232	0.66	0.10	0.18	pCi/g	GSS		=			
SEAARC2017SS061260	REG	U-235	1.58		0.85	pCi/g	GSS	U	U	T04		
SEAARC2017SS061260	REG	U-238	6.37	1.10	2.02	pCi/g	GSS		=			
SEAARC2017SS061500	REG	Ac-227	11.50	0.65	0.59	pCi/g	GSS		=			
SEAARC2017SS061500	REG	Am-241	0.11		0.44	pCi/g	GSS	U	U	T04, T05		
SEAARC2017SS061500	REG	Cs-137	0.19		0.16	pCi/g	GSS	U	U	T04		
SEAARC2017SS061500	REG	K-40	11.51	1.55	1.32	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2017SS061500	REG	Pa-231	12.93	1.67	2.76	pCi/g	GSS		=			
SEAARC2017SS061500	REG	Ra-226	7.94	0.39	0.15	pCi/g	GSS		=			
SEAARC2017SS061500	REG	RA-228	0.78	0.11	0.22	pCi/g	GSS		=			
SEAARC2017SS061500	REG	TH-228	0.78	0.11	0.22	pCi/g	GSS		=			
SEAARC2017SS061500	REG	Th-230	291.90	32.73	27.10	pCi/g	GSS		=			
SEAARC2017SS061500	REG	TH-232	0.78	0.11	0.22	pCi/g	GSS		=			
SEAARC2017SS061500	REG	U-235	2.79	0.32	0.67	pCi/g	GSS		=			
SEAARC2017SS061500	REG	U-238	20.44	2.24	2.81	pCi/g	GSS		=			
SEAARC2017SS061680	REG	Ac-227	5.07	0.44	0.51	pCi/g	GSS		=			
SEAARC2017SS061680	REG	Am-241	-0.29		0.39	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2017SS061680	REG	Cs-137	0.18		0.18	pCi/g	GSS	U	U	T04		
SEAARC2017SS061680	REG	K-40	8.76	1.77	2.01	pCi/g	GSS		=			
SEAARC2017SS061680	REG	Pa-231	6.29	1.44	2.45	pCi/g	GSS		=			
SEAARC2017SS061680	REG	Ra-226	3.59	0.22	0.16	pCi/g	GSS		=			
SEAARC2017SS061680	REG	RA-228	0.79	0.13	0.21	pCi/g	GSS		=			
SEAARC2017SS061680	REG	TH-228	0.79	0.13	0.21	pCi/g	GSS		=			
SEAARC2017SS061680	REG	Th-230	160.49	20.49	22.90	pCi/g	GSS		=			
SEAARC2017SS061680	REG	TH-232	0.79	0.13	0.21	pCi/g	GSS		=			
SEAARC2017SS061680	REG	U-235	3.42		1.06	pCi/g	GSS	U	U	T04		
SEAARC2017SS061680	REG	U-238	12.10	2.01	2.35	pCi/g	GSS		=			
SEAARC2017SS064800	DUP	Ac-227	-0.23		0.76	pCi/g	GSS	U			NC	NC
SEAARC2017SS064800	DUP	Am-241	0.06		0.17	pCi/g	GSS	U			NC	NC
SEAARC2017SS064800	DUP	Cs-137	0.00		0.11	pCi/g	GSS	U			NC	NC
SEAARC2017SS064800	DUP	K-40	16.14	1.97	1.31	pCi/g	GSS				8.0%	OK
SEAARC2017SS064800	DUP	Pa-231	2.84		2.53	pCi/g	GSS	U			NC	NC
SEAARC2017SS064800	DUP	Ra-226	0.68	0.06	0.08	pCi/g	GSS				5.5%	OK
SEAARC2017SS064800	DUP	RA-228	0.82	0.10	0.14	pCi/g	GSS				0.1%	OK
SEAARC2017SS064800	DUP	TH-228	0.82	0.10	0.14	pCi/g	GSS				0.1%	OK
SEAARC2017SS064800	DUP	Th-230	8.38		15.50	pCi/g	GSS	U			NC	NC
SEAARC2017SS064800	DUP	TH-232	0.82	0.10	0.14	pCi/g	GSS				0.1%	OK
SEAARC2017SS064800	DUP	U-235	-0.36		0.39	pCi/g	GSS	U			NC	NC
SEAARC2017SS064800	DUP	U-238	0.93	0.43	0.94	pCi/g	GSS	U			NC	NC
SEAARC2017SS064800	REG	Ac-227	0.04		0.75	pCi/g	GSS	U	U	T04, T05		
SEAARC2017SS064800	REG	Am-241	0.03		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC2017SS064800	REG	Cs-137	-0.07		0.10	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2017SS064800	REG	K-40	17.49	1.99	1.35	pCi/g	GSS		=			
SEAARC2017SS064800	REG	Pa-231	3.19		2.55	pCi/g	GSS	U	U	T04		
SEAARC2017SS064800	REG	Ra-226	0.65	0.07	0.09	pCi/g	GSS		=			
SEAARC2017SS064800	REG	RA-228	0.82	0.10	0.15	pCi/g	GSS		=			
SEAARC2017SS064800	REG	TH-228	0.82	0.10	0.15	pCi/g	GSS		=			
SEAARC2017SS064800	REG	Th-230	-9.43		14.70	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2017SS064800	REG	TH-232	0.82	0.10	0.15	pCi/g	GSS		=			
SEAARC2017SS064800	REG	U-235	0.11		0.41	pCi/g	GSS	U	U	T04, T05		
SEAARC2017SS064800	REG	U-238	0.93	0.44	0.95	pCi/g	GSS	U	U	T05		
SEAARC2018SS060180	REG	Ac-227	-0.11		0.78	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2018SS060180	REG	Am-241	0.10		0.17	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS060180	REG	Cs-137	0.12	0.04	0.06	pCi/g	GSS		=			
SEAARC2018SS060180	REG	K-40	18.11	2.12	1.33	pCi/g	GSS		=			
SEAARC2018SS060180	REG	Pa-231	0.59		2.37	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS060180	REG	Ra-226	0.62	0.07	0.09	pCi/g	GSS		=			
SEAARC2018SS060180	REG	RA-228	0.82	0.10	0.15	pCi/g	GSS		=			
SEAARC2018SS060180	REG	TH-228	0.82	0.10	0.15	pCi/g	GSS		=			
SEAARC2018SS060180	REG	Th-230	2.73		15.30	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS060180	REG	TH-232	0.82	0.10	0.15	pCi/g	GSS		=			
SEAARC2018SS060180	REG	U-235	-0.08		0.42	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2018SS060180	REG	U-238	0.94	0.45	0.98	pCi/g	GSS	U	U	T05		
SEAARC2018SS061440	REG	Ac-227	0.06		0.71	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS061440	REG	Am-241	0.03		0.16	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS061440	REG	Cs-137	0.07		0.10	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS061440	REG	K-40	15.28	1.89	1.28	pCi/g	GSS		=			
SEAARC2018SS061440	REG	Pa-231	0.77		2.49	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS061440	REG	Ra-226	0.57	0.06	0.08	pCi/g	GSS		=			
SEAARC2018SS061440	REG	RA-228	0.71	0.09	0.14	pCi/g	GSS		=			
SEAARC2018SS061440	REG	TH-228	0.71	0.09	0.14	pCi/g	GSS		=			
SEAARC2018SS061440	REG	Th-230	-0.22		14.00	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2018SS061440	REG	TH-232	0.71	0.09	0.14	pCi/g	GSS		=			
SEAARC2018SS061440	REG	U-235	0.02		0.40	pCi/g	GSS	U	U	T04, T05		
SEAARC2018SS061440	REG	U-238	0.85	0.42	0.84	pCi/g	GSS		=			
SEAARC2019SS063840	REG	Ac-227	14.54	0.94	0.79	pCi/g	GSS		=			
SEAARC2019SS063840	REG	Am-241	-0.04		0.58	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEAARC2019SS063840	REG	Cs-137	0.35		0.21	pCi/g	GSS	U	U	T04		
SEAARC2019SS063840	REG	K-40	10.16	1.75	1.85	pCi/g	GSS		=			
SEAARC2019SS063840	REG	Pa-231	16.70	2.79	3.63	pCi/g	GSS		=			
SEAARC2019SS063840	REG	Ra-226	9.39	0.48	0.19	pCi/g	GSS		=			
SEAARC2019SS063840	REG	RA-228	0.87	0.14	0.30	pCi/g	GSS		=			
SEAARC2019SS063840	REG	TH-228	0.87	0.14	0.30	pCi/g	GSS		=			
SEAARC2019SS063840	REG	Th-230	418.85	45.00	36.40	pCi/g	GSS		=			
SEAARC2019SS063840	REG	TH-232	0.87	0.14	0.30	pCi/g	GSS		=			
SEAARC2019SS063840	REG	U-235	3.37	0.42	0.89	pCi/g	GSS		=			
SEAARC2019SS063840	REG	U-238	22.44	2.82	3.75	pCi/g	GSS		=			
SEAARC2019SS064200	REG	Ac-227	15.23	0.92	0.66	pCi/g	GSS		=			
SEAARC2019SS064200	REG	Am-241	-0.19		0.54	pCi/g	GSS	U	UJ	T04, T06		
SEAARC2019SS064200	REG	Cs-137	0.22		0.18	pCi/g	GSS	U	U	T04		
SEAARC2019SS064200	REG	K-40	8.84	1.49	1.51	pCi/g	GSS		=			
SEAARC2019SS064200	REG	Pa-231	17.42	2.29	3.08	pCi/g	GSS		=			
SEAARC2019SS064200	REG	Ra-226	5.98	0.33	0.15	pCi/g	GSS		=			
SEAARC2019SS064200	REG	RA-228	0.91	0.13	0.23	pCi/g	GSS		=			
SEAARC2019SS064200	REG	TH-228	0.91	0.13	0.23	pCi/g	GSS		=			
SEAARC2019SS064200	REG	Th-230	517.75	55.07	33.10	pCi/g	GSS		=			
SEAARC2019SS064200	REG	TH-232	0.91	0.13	0.23	pCi/g	GSS		=			
SEAARC2019SS064200	REG	U-235	3.59	0.40	0.78	pCi/g	GSS		=			
SEAARC2019SS064200	REG	U-238	37.51	3.90	3.42	pCi/g	GSS		=			
SEACOR0000SS120361	REG	Ac-227	-0.01		0.59	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0000SS120361	REG	Am-241	-0.02		0.11	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0000SS120361	REG	Cs-137	0.04		0.10	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120361	REG	K-40	11.42	1.86	1.30	pCi/g	GSS		=			
SEACOR0000SS120361	REG	Pa-231	1.01		2.15	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120361	REG	Ra-226	0.51	0.05	0.08	pCi/g	GSS		=			
SEACOR0000SS120361	REG	RA-228	0.60	0.08	0.13	pCi/g	GSS		=			
SEACOR0000SS120361	REG	TH-228	0.60	0.08	0.13	pCi/g	GSS		=			
SEACOR0000SS120361	REG	Th-230	6.09		11.70	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120361	REG	TH-232	0.60	0.08	0.13	pCi/g	GSS		=			
SEACOR0000SS120361	REG	U-235	0.06		0.33	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120361	REG	U-238	0.00		1.25	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120721	REG	Ac-227	-0.14		0.49	pCi/g	GSS	U	UJ	T04, T06		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0000SS120721	REG	Am-241	-0.01		0.10	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0000SS120721	REG	Cs-137	0.05	0.03	0.04	pCi/g	GSS		=			
SEACOR0000SS120721	REG	K-40	5.93	1.20	1.20	pCi/g	GSS		=			
SEACOR0000SS120721	REG	Pa-231	1.28		1.73	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120721	REG	Ra-226	0.45	0.05	0.07	pCi/g	GSS		=			
SEACOR0000SS120721	REG	RA-228	0.45	0.07	0.10	pCi/g	GSS		=			
SEACOR0000SS120721	REG	TH-228	0.45	0.07	0.10	pCi/g	GSS		=			
SEACOR0000SS120721	REG	Th-230	0.14		9.57	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120721	REG	TH-232	0.45	0.07	0.10	pCi/g	GSS		=			
SEACOR0000SS120721	REG	U-235	0.03		0.29	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120721	REG	U-238	0.84	0.31	0.61	pCi/g	GSS		=			
SEACOR0000SS120901	REG	Ac-227	0.25		0.52	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120901	REG	Am-241	0.04		0.11	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120901	REG	Cs-137	0.01		0.11	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120901	REG	K-40	1.58	1.23	1.85	pCi/g	GSS	U	U	T05		
SEACOR0000SS120901	REG	Pa-231	1.87		2.29	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120901	REG	Ra-226	0.15	0.04	0.07	pCi/g	GSS		=			
SEACOR0000SS120901	REG	RA-228	0.06		0.29	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120901	REG	TH-228	0.06		0.29	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120901	REG	Th-230	13.38		10.90	pCi/g	GSS	U	U	T04		
SEACOR0000SS120901	REG	TH-232	0.06		0.29	pCi/g	GSS	U	U	T04, T05		
SEACOR0000SS120901	REG	U-235	-0.27		0.28	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0000SS120901	REG	U-238	-0.49		1.07	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS060180	REG	Ac-227	4.88	0.41	0.52	pCi/g	GSS		=			
SEACOR0001SS060180	REG	Am-241	0.16		0.37	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS060180	REG	Cs-137	0.08	0.04	0.07	pCi/g	GSS		=			
SEACOR0001SS060180	REG	K-40	10.74	1.79	1.85	pCi/g	GSS		=			
SEACOR0001SS060180	REG	Pa-231	5.60	1.28	2.63	pCi/g	GSS		=			
SEACOR0001SS060180	REG	Ra-226	4.61	0.26	0.15	pCi/g	GSS		=			
SEACOR0001SS060180	REG	RA-228	0.96	0.13	0.23	pCi/g	GSS		=			
SEACOR0001SS060180	REG	TH-228	0.96	0.13	0.23	pCi/g	GSS		=			
SEACOR0001SS060180	REG	Th-230	161.03	18.96	22.40	pCi/g	GSS		=			
SEACOR0001SS060180	REG	TH-232	0.96	0.13	0.23	pCi/g	GSS		=			
SEACOR0001SS060180	REG	U-235	2.28	0.31	0.55	pCi/g	GSS		=			
SEACOR0001SS060180	REG	U-238	11.53	1.63	2.32	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0001SS060240	REG	Ac-227	10.82	0.84	0.86	pCi/g	GSS		=			
SEACOR0001SS060240	REG	Am-241	-0.02		0.64	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS060240	REG	Cs-137	-0.02		0.23	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS060240	REG	K-40	10.78	2.24	2.44	pCi/g	GSS		=			
SEACOR0001SS060240	REG	Pa-231	13.07	2.20	4.16	pCi/g	GSS		=			
SEACOR0001SS060240	REG	Ra-226	7.01	0.40	0.23	pCi/g	GSS		=			
SEACOR0001SS060240	REG	RA-228	0.67	0.16	0.32	pCi/g	GSS		=			
SEACOR0001SS060240	REG	TH-228	0.67	0.16	0.32	pCi/g	GSS		=			
SEACOR0001SS060240	REG	Th-230	328.14	36.61	39.80	pCi/g	GSS		=			
SEACOR0001SS060240	REG	TH-232	0.67	0.16	0.32	pCi/g	GSS		=			
SEACOR0001SS060240	REG	U-235	3.99	0.48	0.94	pCi/g	GSS		=			
SEACOR0001SS060240	REG	U-238	33.54	3.94	4.08	pCi/g	GSS		=			
SEACOR0001SS060960	REG	Ac-227	1.69	0.26	0.48	pCi/g	GSS		=			
SEACOR0001SS060960	REG	Am-241	0.17		0.31	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS060960	REG	Cs-137	0.10	0.05	0.10	pCi/g	GSS		=			
SEACOR0001SS060960	REG	K-40	13.86	2.42	2.75	pCi/g	GSS		=			
SEACOR0001SS060960	REG	Pa-231	1.96	1.18	2.42	pCi/g	GSS	U	U	T05		
SEACOR0001SS060960	REG	Ra-226	2.78	0.19	0.17	pCi/g	GSS		=			
SEACOR0001SS060960	REG	RA-228	0.96	0.15	0.27	pCi/g	GSS		=			
SEACOR0001SS060960	REG	TH-228	0.96	0.15	0.27	pCi/g	GSS		=			
SEACOR0001SS060960	REG	Th-230	62.05	11.39	17.80	pCi/g	GSS		=			
SEACOR0001SS060960	REG	TH-232	0.96	0.15	0.27	pCi/g	GSS		=			
SEACOR0001SS060960	REG	U-235	1.03		0.79	pCi/g	GSS	U	U	T04		
SEACOR0001SS060960	REG	U-238	5.35	1.13	1.85	pCi/g	GSS		=			
SEACOR0001SS120140	REG	Ac-227	3.04	0.35	0.48	pCi/g	GSS		=			
SEACOR0001SS120140	REG	Am-241	-0.14		0.32	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS120140	REG	Cs-137	0.10	0.05	0.08	pCi/g	GSS		=			
SEACOR0001SS120140	REG	K-40	12.34	1.84	1.75	pCi/g	GSS		=			
SEACOR0001SS120140	REG	Pa-231	2.78	1.07	2.46	pCi/g	GSS		=			
SEACOR0001SS120140	REG	Ra-226	4.61	0.25	0.16	pCi/g	GSS		=			
SEACOR0001SS120140	REG	RA-228	0.92	0.13	0.22	pCi/g	GSS		=			
SEACOR0001SS120140	REG	TH-228	0.92	0.13	0.22	pCi/g	GSS		=			
SEACOR0001SS120140	REG	Th-230	87.61	13.03	19.50	pCi/g	GSS		=			
SEACOR0001SS120140	REG	TH-232	0.92	0.13	0.22	pCi/g	GSS		=			
SEACOR0001SS120140	REG	U-235	1.63		0.91	pCi/g	GSS	U	U	T04		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0001SS120140	REG	U-238	5.01	1.09	2.02	pCi/g	GSS		=			
SEACOR0001SS120680	REG	Ac-227	0.60	0.23	0.49	pCi/g	GSS		=			
SEACOR0001SS120680	REG	Am-241	-0.13		0.30	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS120680	REG	Cs-137	0.11		0.24	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS120680	REG	K-40	3.89	2.44	3.71	pCi/g	GSS		=			
SEACOR0001SS120680	REG	Pa-231	5.25		5.22	pCi/g	GSS	U	U	T04		
SEACOR0001SS120680	REG	Ra-226	1.34	0.14	0.18	pCi/g	GSS		=			
SEACOR0001SS120680	REG	RA-228	0.46	0.14	0.28	pCi/g	GSS		=			
SEACOR0001SS120680	REG	TH-228	0.46	0.14	0.28	pCi/g	GSS		=			
SEACOR0001SS120680	REG	Th-230	24.80	9.20	17.40	pCi/g	GSS		=			
SEACOR0001SS120680	REG	TH-232	0.46	0.14	0.28	pCi/g	GSS		=			
SEACOR0001SS120680	REG	U-235	0.25		0.75	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS120680	REG	U-238	5.03	1.20	1.78	pCi/g	GSS		=			
SEACOR0001SS120780	REG	Ac-227	3.04	0.42	0.61	pCi/g	GSS		=			
SEACOR0001SS120780	REG	Am-241	-0.16		0.46	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS120780	REG	Cs-137	0.23		0.25	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS120780	REG	K-40	9.61	2.44	2.72	pCi/g	GSS		=			
SEACOR0001SS120780	REG	Pa-231	3.13	1.65	3.03	pCi/g	GSS		=			
SEACOR0001SS120780	REG	Ra-226	3.48	0.24	0.21	pCi/g	GSS		=			
SEACOR0001SS120780	REG	RA-228	0.58	0.15	0.29	pCi/g	GSS		=			
SEACOR0001SS120780	REG	TH-228	0.58	0.15	0.29	pCi/g	GSS		=			
SEACOR0001SS120780	REG	Th-230	85.23	20.25	28.70	pCi/g	GSS		=			
SEACOR0001SS120780	REG	TH-232	0.58	0.15	0.29	pCi/g	GSS		=			
SEACOR0001SS120780	REG	U-235	1.86	0.36	0.64	pCi/g	GSS		=			
SEACOR0001SS120780	REG	U-238	17.37	2.47	2.97	pCi/g	GSS		=			
SEACOR0001SS122060	REG	Ac-227	-0.12		0.75	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS122060	REG	Am-241	-0.11		0.15	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS122060	REG	Cs-137	0.06	0.03	0.05	pCi/g	GSS		=			
SEACOR0001SS122060	REG	K-40	7.84	1.43	1.53	pCi/g	GSS		=			
SEACOR0001SS122060	REG	Pa-231	1.72		2.38	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS122060	REG	Ra-226	1.15	0.08	0.09	pCi/g	GSS		=			
SEACOR0001SS122060	REG	RA-228	1.02	0.10	0.14	pCi/g	GSS		=			
SEACOR0001SS122060	REG	TH-228	1.02	0.10	0.14	pCi/g	GSS		=			
SEACOR0001SS122060	REG	Th-230	-3.80		14.80	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS122060	REG	TH-232	1.02	0.10	0.14	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0001SS122060	REG	U-235	-0.07		0.38	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS122060	REG	U-238	1.27	0.45	0.92	pCi/g	GSS		=			
SEACOR0001SS122160	REG	Ac-227	-0.29		1.10	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS122160	REG	Am-241	0.05		0.21	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS122160	REG	Cs-137	0.03		0.14	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS122160	REG	K-40	6.95	1.53	1.72	pCi/g	GSS		=			
SEACOR0001SS122160	REG	Pa-231	2.46		3.28	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS122160	REG	Ra-226	1.45	0.11	0.12	pCi/g	GSS		=			
SEACOR0001SS122160	REG	RA-228	1.38	0.15	0.18	pCi/g	GSS		=			
SEACOR0001SS122160	REG	TH-228	1.38	0.15	0.18	pCi/g	GSS		=			
SEACOR0001SS122160	REG	Th-230	0.78		20.10	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS122160	REG	TH-232	1.38	0.15	0.18	pCi/g	GSS		=			
SEACOR0001SS122160	REG	U-235	0.80		0.56	pCi/g	GSS	U	U	T04		
SEACOR0001SS122160	REG	U-238	1.35	0.59	1.25	pCi/g	GSS		=			
SEACOR0001SS140900	REG	Ac-227	-0.07		0.79	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS140900	REG	Am-241	-0.09		0.19	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS140900	REG	Cs-137	0.05		0.15	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS140900	REG	K-40	4.37	1.76	2.45	pCi/g	GSS		=			
SEACOR0001SS140900	REG	Pa-231	1.09		3.14	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS140900	REG	Ra-226	0.51	0.07	0.13	pCi/g	GSS		=			
SEACOR0001SS140900	REG	RA-228	0.41	0.10	0.19	pCi/g	GSS		=			
SEACOR0001SS140900	REG	TH-228	0.41	0.10	0.19	pCi/g	GSS		=			
SEACOR0001SS140900	REG	Th-230	8.21	5.20	10.90	pCi/g	GSS	U	U	T05		
SEACOR0001SS140900	REG	TH-232	0.41	0.10	0.19	pCi/g	GSS		=			
SEACOR0001SS140900	REG	U-235	0.00		0.50	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS140900	REG	U-238	0.91	0.53	1.13	pCi/g	GSS	U	U	T05		
SEACOR0001SS142280	DUP	Ac-227	-0.15		1.01	pCi/g	GSS	U			NC	NC
SEACOR0001SS142280	DUP	Am-241	-0.02		0.21	pCi/g	GSS	U			NC	NC
SEACOR0001SS142280	DUP	Cs-137	0.09		0.15	pCi/g	GSS	U			NC	NC
SEACOR0001SS142280	DUP	K-40	5.41	1.44	1.83	pCi/g	GSS				6.9%	OK
SEACOR0001SS142280	DUP	Pa-231	0.83		3.30	pCi/g	GSS	U			NC	NC
SEACOR0001SS142280	DUP	Ra-226	1.48	0.11	0.13	pCi/g	GSS				5.3%	OK
SEACOR0001SS142280	DUP	RA-228	1.37	0.15	0.19	pCi/g	GSS				2.3%	OK
SEACOR0001SS142280	DUP	TH-228	1.37	0.15	0.19	pCi/g	GSS				2.3%	OK
SEACOR0001SS142280	DUP	Th-230	9.89		21.30	pCi/g	GSS	U			NC	NC

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0001SS142280	DUP	TH-232	1.37	0.15	0.19	pCi/g	GSS				2.3%	OK
SEACOR0001SS142280	DUP	U-235	-0.32		0.55	pCi/g	GSS	U			NC	NC
SEACOR0001SS142280	DUP	U-238	1.63	0.60	1.26	pCi/g	GSS				7.1%	OK
SEACOR0001SS142280	REG	Ac-227	-0.27		1.07	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS142280	REG	Am-241	-0.15		0.21	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS142280	REG	Cs-137	0.20		0.15	pCi/g	GSS	U	U	T04		
SEACOR0001SS142280	REG	K-40	5.80	1.45	1.77	pCi/g	GSS		=			
SEACOR0001SS142280	REG	Pa-231	1.32		3.35	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS142280	REG	Ra-226	1.56	0.12	0.12	pCi/g	GSS		=			
SEACOR0001SS142280	REG	RA-228	1.40	0.15	0.18	pCi/g	GSS		=			
SEACOR0001SS142280	REG	TH-228	1.40	0.15	0.18	pCi/g	GSS		=			
SEACOR0001SS142280	REG	Th-230	14.12		20.90	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS142280	REG	TH-232	1.40	0.15	0.18	pCi/g	GSS		=			
SEACOR0001SS142280	REG	U-235	0.03		0.55	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS142280	REG	U-238	1.75	0.62	1.25	pCi/g	GSS		=			
SEACOR0001SS180420	REG	Ac-227	5.35	0.47	0.67	pCi/g	GSS		=			
SEACOR0001SS180420	REG	Am-241	-0.04		0.50	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0001SS180420	REG	Cs-137	0.10		0.23	pCi/g	GSS	U	U	T04, T05		
SEACOR0001SS180420	REG	K-40	12.84	2.42	2.53	pCi/g	GSS		=			
SEACOR0001SS180420	REG	Pa-231	6.01	1.61	3.32	pCi/g	GSS		=			
SEACOR0001SS180420	REG	Ra-226	5.24	0.31	0.21	pCi/g	GSS		=			
SEACOR0001SS180420	REG	RA-228	0.81	0.16	0.28	pCi/g	GSS		=			
SEACOR0001SS180420	REG	TH-228	0.81	0.16	0.28	pCi/g	GSS		=			
SEACOR0001SS180420	REG	Th-230	192.19	24.31	30.10	pCi/g	GSS		=			
SEACOR0001SS180420	REG	TH-232	0.81	0.16	0.28	pCi/g	GSS		=			
SEACOR0001SS180420	REG	U-235	3.53		1.38	pCi/g	GSS	U	U	T04		
SEACOR0001SS180420	REG	U-238	15.04	2.14	3.12	pCi/g	GSS		=			
SEACOR0002SS060180	REG	Ac-227	0.03		0.68	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060180	REG	Am-241	0.14		0.15	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060180	REG	Cs-137	0.03		0.10	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060180	REG	K-40	6.35	1.30	1.42	pCi/g	GSS		=			
SEACOR0002SS060180	REG	Pa-231	3.59		2.45	pCi/g	GSS	U	U	T04		
SEACOR0002SS060180	REG	Ra-226	0.61	0.06	0.09	pCi/g	GSS		=			
SEACOR0002SS060180	REG	RA-228	0.57	0.09	0.14	pCi/g	GSS		=			
SEACOR0002SS060180	REG	TH-228	0.57	0.09	0.14	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0002SS060180	REG	Th-230	6.94		14.70	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060180	REG	TH-232	0.57	0.09	0.14	pCi/g	GSS		=			
SEACOR0002SS060180	REG	U-235	0.03		0.39	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060180	REG	U-238	1.29	0.46	0.82	pCi/g	GSS		=			
SEACOR0002SS060900	REG	Ac-227	-0.23		0.42	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS060900	REG	Am-241	-0.01		0.09	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS060900	REG	Cs-137	0.05		0.08	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060900	REG	K-40	9.25	1.24	0.34	pCi/g	GSS		=			
SEACOR0002SS060900	REG	Pa-231	0.48		1.64	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060900	REG	Ra-226	0.35	0.04	0.06	pCi/g	GSS		=			
SEACOR0002SS060900	REG	RA-228	0.39	0.07	0.11	pCi/g	GSS		=			
SEACOR0002SS060900	REG	TH-228	0.39	0.07	0.11	pCi/g	GSS		=			
SEACOR0002SS060900	REG	Th-230	4.15		9.25	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS060900	REG	TH-232	0.39	0.07	0.11	pCi/g	GSS		=			
SEACOR0002SS060900	REG	U-235	-0.08		0.27	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS060900	REG	U-238	0.44	0.25	0.53	pCi/g	GSS	U	U	T05		
SEACOR0002SS170360	REG	Ac-227	-0.12		0.48	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS170360	REG	Am-241	0.04		0.11	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS170360	REG	Cs-137	0.04	0.02	0.04	pCi/g	GSS		=			
SEACOR0002SS170360	REG	K-40	6.48	1.01	1.09	pCi/g	GSS		=			
SEACOR0002SS170360	REG	Pa-231	1.40		1.71	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS170360	REG	Ra-226	0.64	0.05	0.07	pCi/g	GSS		=			
SEACOR0002SS170360	REG	RA-228	0.54	0.07	0.11	pCi/g	GSS		=			
SEACOR0002SS170360	REG	TH-228	0.54	0.07	0.11	pCi/g	GSS		=			
SEACOR0002SS170360	REG	Th-230	-10.66		9.89	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS170360	REG	TH-232	0.54	0.07	0.11	pCi/g	GSS		=			
SEACOR0002SS170360	REG	U-235	0.19		0.28	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS170360	REG	U-238	1.22	0.33	0.64	pCi/g	GSS		=			
SEACOR0002SS481800	REG	Ac-227	-0.06		0.72	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS481800	REG	Am-241	0.00		0.16	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS481800	REG	Cs-137	0.13		0.13	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS481800	REG	K-40	5.59	1.49	1.83	pCi/g	GSS		=			
SEACOR0002SS481800	REG	Pa-231	1.11		2.75	pCi/g	GSS	U	U	T04, T05		
SEACOR0002SS481800	REG	Ra-226	0.62	0.07	0.10	pCi/g	GSS		=			
SEACOR0002SS481800	REG	RA-228	0.40	0.09	0.15	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0002SS481800	REG	TH-228	0.40	0.09	0.15	pCi/g	GSS		=			
SEACOR0002SS481800	REG	Th-230	-1.96		15.60	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS481800	REG	TH-232	0.40	0.09	0.15	pCi/g	GSS		=			
SEACOR0002SS481800	REG	U-235	-0.05		0.41	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0002SS481800	REG	U-238	0.86	0.48	0.97	pCi/g	GSS	U	U	T05		
SEACOR0003	DUP	Ac-227	-0.40		1.33	pCi/g	GSS	U			NC	NC
SEACOR0003	DUP	Am-241	-0.10		0.25	pCi/g	GSS	U			NC	NC
SEACOR0003	DUP	Cs-137	-0.03		0.17	pCi/g	GSS	U			NC	NC
SEACOR0003	DUP	K-40	4.31	1.78	2.34	pCi/g	GSS				NC	1.65
SEACOR0003	DUP	Pa-231	0.10		3.90	pCi/g	GSS	U			NC	NC
SEACOR0003	DUP	Ra-226	1.17	0.12	0.14	pCi/g	GSS				10.2%	OK
SEACOR0003	DUP	RA-228	1.03	0.17	0.22	pCi/g	GSS				10.9%	OK
SEACOR0003	DUP	TH-228	1.03	0.17	0.22	pCi/g	GSS				10.9%	OK
SEACOR0003	DUP	Th-230	0.67		24.20	pCi/g	GSS	U			NC	NC
SEACOR0003	DUP	TH-232	1.03	0.17	0.22	pCi/g	GSS				10.9%	OK
SEACOR0003	DUP	U-235	-0.07		0.61	pCi/g	GSS	U			NC	NC
SEACOR0003	DUP	U-238	1.35	0.74	1.47	pCi/g	GSS	U			17.5%	OK
SEACOR0003	REG	Ac-227	-0.38		1.25	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003	REG	Am-241	0.27		0.27	pCi/g	GSS	U	U	T04		
SEACOR0003	REG	Cs-137	0.16		0.18	pCi/g	GSS	U	U	T04, T05		
SEACOR0003	REG	K-40	2.29	1.61	2.31	pCi/g	GSS	U	U	T05		
SEACOR0003	REG	Pa-231	3.30		4.10	pCi/g	GSS	U	U	T04, T05		
SEACOR0003	REG	Ra-226	1.05	0.11	0.15	pCi/g	GSS		=			
SEACOR0003	REG	RA-228	0.93	0.16	0.23	pCi/g	GSS		=			
SEACOR0003	REG	TH-228	0.93	0.16	0.23	pCi/g	GSS		=			
SEACOR0003	REG	Th-230	8.48		23.40	pCi/g	GSS	U	U	T04, T05		
SEACOR0003	REG	TH-232	0.93	0.16	0.23	pCi/g	GSS		=			
SEACOR0003	REG	U-235	-0.10		0.65	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003	REG	U-238	1.61	0.71	1.45	pCi/g	GSS		=			
SEACOR0003SS062400	REG	Ac-227	-0.70		0.52	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS062400	REG	Am-241	-0.01		0.11	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS062400	REG	Cs-137	0.05		0.09	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS062400	REG	K-40	8.97	1.10	0.42	pCi/g	GSS		=			
SEACOR0003SS062400	REG	Pa-231	-0.48		2.13	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS062400	REG	Ra-226	1.16	0.07	0.08	pCi/g	GSS		=			

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0003SS062400	REG	RA-228	1.04	0.10	0.12	pCi/g	GSS		=			
SEACOR0003SS062400	REG	TH-228	1.04	0.10	0.12	pCi/g	GSS		=			
SEACOR0003SS062400	REG	Th-230	-6.17		10.80	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS062400	REG	TH-232	1.04	0.10	0.12	pCi/g	GSS		=			
SEACOR0003SS062400	REG	U-235	0.03		0.32	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS062400	REG	U-238	1.30	0.36	0.69	pCi/g	GSS		=			
SEACOR0003SS122341	REG	Ac-227	0.00		1.09	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122341	REG	Am-241	-0.02		0.22	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122341	REG	Cs-137	-0.06		0.18	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122341	REG	K-40	3.74	1.84	2.67	pCi/g	GSS		=			
SEACOR0003SS122341	REG	Pa-231	2.15		3.73	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122341	REG	Ra-226	0.94	0.10	0.13	pCi/g	GSS		=			
SEACOR0003SS122341	REG	RA-228	0.68	0.13	0.24	pCi/g	GSS		=			
SEACOR0003SS122341	REG	TH-228	0.68	0.13	0.24	pCi/g	GSS		=			
SEACOR0003SS122341	REG	Th-230	12.74		21.80	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122341	REG	TH-232	0.68	0.13	0.24	pCi/g	GSS		=			
SEACOR0003SS122341	REG	U-235	0.46		0.59	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122341	REG	U-238	1.62	0.68	1.26	pCi/g	GSS		=			
SEACOR0003SS122461	REG	Ac-227	-0.12		0.81	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122461	REG	Am-241	0.02		0.17	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122461	REG	Cs-137	-0.02		0.14	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122461	REG	K-40	2.64	1.32	1.88	pCi/g	GSS		=			
SEACOR0003SS122461	REG	Pa-231	4.01		2.90	pCi/g	GSS	U	U	T04		
SEACOR0003SS122461	REG	Ra-226	0.62	0.07	0.11	pCi/g	GSS		=			
SEACOR0003SS122461	REG	RA-228	0.56	0.10	0.15	pCi/g	GSS		=			
SEACOR0003SS122461	REG	TH-228	0.56	0.10	0.15	pCi/g	GSS		=			
SEACOR0003SS122461	REG	Th-230	-4.97		17.10	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122461	REG	TH-232	0.56	0.10	0.15	pCi/g	GSS		=			
SEACOR0003SS122461	REG	U-235	0.05		0.40	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122461	REG	U-238	0.92	0.49	1.01	pCi/g	GSS	U	U	T05		
SEACOR0003SS122581	REG	Ac-227	-0.05		0.94	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122581	REG	Am-241	-0.06		0.18	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122581	REG	Cs-137	0.03		0.14	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122581	REG	K-40	3.92	1.33	1.79	pCi/g	GSS		=			
SEACOR0003SS122581	REG	Pa-231	2.41		2.86	pCi/g	GSS	U	U	T04, T05		

Exhibit E. On-Site Gamma Spectrometry Measurements

Sample ID	Type	Analyte	Result	Error	MDA	Units	Method	Lab Qualifier	Validation Qualifier	Reason Code	RPD	NAD
SEACOR0003SS122581	REG	Ra-226	0.93	0.08	0.10	pCi/g	GSS		=			
SEACOR0003SS122581	REG	RA-228	1.09	0.13	0.15	pCi/g	GSS		=			
SEACOR0003SS122581	REG	TH-228	1.09	0.13	0.15	pCi/g	GSS		=			
SEACOR0003SS122581	REG	Th-230	4.58		17.50	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122581	REG	TH-232	1.09	0.13	0.15	pCi/g	GSS		=			
SEACOR0003SS122581	REG	U-235	0.07		0.46	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122581	REG	U-238	1.74	0.59	1.08	pCi/g	GSS		=			
SEACOR0003SS122941	REG	Ac-227	-0.25		1.32	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122941	REG	Am-241	0.07		0.26	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122941	REG	Cs-137	0.19		0.21	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122941	REG	K-40	2.52	1.65	2.36	pCi/g	GSS		=			
SEACOR0003SS122941	REG	Pa-231	3.26		4.21	pCi/g	GSS	U	U	T04, T05		
SEACOR0003SS122941	REG	Ra-226	1.17	0.12	0.16	pCi/g	GSS		=			
SEACOR0003SS122941	REG	RA-228	1.10	0.18	0.26	pCi/g	GSS		=			
SEACOR0003SS122941	REG	TH-228	1.10	0.18	0.26	pCi/g	GSS		=			
SEACOR0003SS122941	REG	Th-230	-14.85		25.20	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122941	REG	TH-232	1.10	0.18	0.26	pCi/g	GSS		=			
SEACOR0003SS122941	REG	U-235	-0.54		0.65	pCi/g	GSS	U	UJ	T04, T06		
SEACOR0003SS122941	REG	U-238	1.66	0.80	1.38	pCi/g	GSS		=			

EXHIBIT F

OFF-SITE LABORATORY ANALYSES

EXHIBIT F

OFF-SITE LABORATORY ANALYSES

Exhibit F presents off-site analytical data from the 2001 Seaway investigation including both chemical and radiological analyses. Two tables are presented including the "Summary of Seaway Site Summer 2001 Investigation Boring and Sampling Locations" (3 pages) and the "Compilation of Paragon Analytical, Inc. Laboratory Results for Seaway Site Summer 2001 Investigation" (173 pages). Entrees into these tables are described in more detail in the following sections.

SAMPLE LOCATIONS

The table "Summary of Seaway Site Summer 2001 Investigation Boring and Sampling Locations" presents location information for each sample collected during the summer 2001 investigation. Fifteen columns of information are presented, each of which is described below:

1. SITE – The site of the investigation (Seaway).
2. OU_DESC – The operable unit description; includes Areas A, B, and C and the reference area.
3. STATION – The borehole name with format AAABBB#### where AAA is always "SEA" for Seaway; BBB refers to the areas COR for correlation, ARA for Area A, ARB for Area B, or ARC for Area C; and #### refers to the assigned borehole number.
4. XCOORD – The easting coordinate in meters.
5. YCOORD – The northing coordinate in meters.
6. ZCOORD – The elevation above sea level in meters.
7. SAMPLE_NO – The sample identification number; same as station but with the addition of the 2-digit sample interval, the 3 digit end depth in inches, and the 1-digit sample type ("0" for regular or "1" for duplicate except for station SEACOR0001 where "1" indicates regular and "2" indicates duplicate).
8. DATE_COL – The date the sample was collected.
9. TIME_COL – The time of day the sample was collected.
10. FSMP_TYPE – The field sample type; RAG for regular or DUP for duplicate.
11. MATRIX – The medium sampled; all soil.
12. Sample Start Depth – The depth below ground surface representing the top of the sampling interval (given in inches).
13. Sample End Depth – The depth below ground surface representing the bottom of the sampling interval (given in inches).
14. Depth Units – The units of the sample start and end depths (inches).

15. COMMENT – The total depth of each borehole and reference point used by surveyors.

LABORATORY RESULTS

The table "Compilation of Paragon Analytical Inc. Laboratory Results for Seaway Site Summer 2001 Investigation" presents the raw analytical data as reported by the off-site analytical laboratory (paragon Analytical, Inc.). Results for both chemical and radiological analyses are reported. Fifteen columns of information are presented, each of which is described below:

1. SAMPLE_NO – The sample identification number; same as station but with the addition of the 2-digit sample interval, the 3 digit end depth in inches, and the 1-digit sample type ("0" for regular or "1" for duplicate except for station SEACOR0001 where "1" indicates regular and "2" indicates duplicate).
2. COLL_DATE – The date the sample was collected.
3. Lab SDG – The laboratory-assigned sample delivery group.
4. PARAMETER – The name of the chemical or radiological analyte targeted for analysis (note that U-232 and U-229 are laboratory tracers and not environmental contaminants).
5. FRACTION – The analytical category or grouping (e.g., RAD for radiological, T-OV for total organic volatiles, etc.).
6. METHOD – The analytical method. Standard methods listed for chemicals and laboratory assigned methods listed for radionuclides. Generally, alpha spec for uranium and thorium, radon emanation for radium, and gamma spec for all other radionuclides.
7. LAB_RESULT – The reported concentration for each radionuclide and chemical.
8. UNCERTNTY – The uncertainty (or error) in the measurement. Uncertainty listed as "0.00" for chemical analyses used as place holder only (chemical measurement uncertainty not reported by analytical laboratory).
9. UNITS – The units of the listed results and uncertainties as reported by the analytical laboratory (e.g., PCI/G not changed to pCi/g).
10. LAB_QUAL – Laboratory-assigned data qualifiers.
11. SAIC DATA_QUAL – Validator-assigned qualifiers. No qualifier for detected values, "U" for undetected, "J" for estimated, "UJ" for undetected and estimated, of "B" when the analyte if found in both the blank and the regular sample (standard qualifiers assigned).
12. COMMENTS – Comments by the validators.
13. VALIDATED – Indicates where of not result was validated.
14. OK_TO_USE in Reports – Validators' opinion whether data are suitable to use in analytical reports (TRUE for yes or FALSE for no).
15. MATRIX – The medium subject to analysis; media are soil, water and extract (E).

SITE	OU_DESC	STATION	XCOORD	YCOORD	ZCOORD	SAMPLE_NO	DATE_COL	TIME_COL	FSMP_TYPE	MATRIX	Sample Start Depth	Sample End Depth	Depth Units	COMMENT
SEAWAY	AREA A	SEAARA1001	409582.72	1092615.37	642.26	ARA1001SS060180	17-Aug-01	17:05	REG	SOIL	12.00	18.00	IN	DEPTH = 20; POINT = 1474
SEAWAY	AREA A	SEAARA1001	409582.72	1092615.37	642.26	ARA1001SS061140	17-Aug-01	17:20	REG	SOIL	108.00	114.00	IN	DEPTH = 20; POINT = 1474
SEAWAY	AREA A	SEAARA1001	409582.72	1092615.37	642.26	ARA1001SS081200	17-Aug-01	17:25	REG	SOIL	112.00	120.00	IN	DEPTH = 20; POINT = 1474
SEAWAY	AREA A	SEAARA1001	409582.72	1092615.37	642.26	ARA1001SS140140	17-Aug-01	16:50	REG	SOIL	0.00	14.00	IN	DEPTH = 20; POINT = 1474
SEAWAY	AREA A	SEAARA1001	409582.72	1092615.37	642.26	ARA1001SS140280	17-Aug-01	17:10	REG	SOIL	14.00	28.00	IN	DEPTH = 20; POINT = 1474
SEAWAY	AREA A	SEAARA1001	409582.72	1092615.37	642.26	ARA1001SS141100	17-Aug-01	17:15	REG	SOIL	96.00	110.00	IN	DEPTH = 20; POINT = 1474
SEAWAY	AREA A	SEAARA1001	409582.72	1092615.37	642.26	ARA1001SS162300	17-Aug-01	17:40	REG	SOIL	214.00	230.00	IN	DEPTH = 20; POINT = 1474
SEAWAY	AREA A	SEAARA1002	409303.73	1092920.19	639.42	ARA1002SS060080	18-Aug-01	13:25	REG	SOIL	2.00	8.00	IN	DEPTH = 25; POINT = 1476
SEAWAY	AREA A	SEAARA1002	409303.73	1092920.19	639.42	ARA1002SS060180	18-Aug-01	13:20	REG	SOIL	12.00	18.00	IN	DEPTH = 25; POINT = 1476
SEAWAY	AREA A	SEAARA1002	409303.73	1092920.19	639.42	ARA1002SS121320	18-Aug-01	13:35	REG	SOIL	120.00	132.00	IN	DEPTH = 25; POINT = 1476
SEAWAY	AREA A	SEAARA1002	409303.73	1092920.19	639.42	ARA1002SS121800	16-Aug-01	09:45	REG	SOIL	168.00	180.00	IN	DEPTH = 25; POINT = 1476
SEAWAY	AREA A	SEAARA1002	409303.73	1092920.19	639.42	ARA1002SS121980	18-Aug-01	13:40	REG	SOIL	186.00	198.00	IN	DEPTH = 25; POINT = 1476
SEAWAY	AREA A	SEAARA1002	409303.73	1092920.19	639.42	ARA1002SS122640	18-Aug-01	13:45	REG	SOIL	252.00	264.00	IN	DEPTH = 25; POINT = 1476
SEAWAY	AREA A	SEAARA1003	409193.98	1093161.47	634.2	ARA1003SS060120	18-Aug-01	16:20	REG	SOIL	6.00	12.00	IN	DEPTH = 20; POINT = 1479
SEAWAY	AREA A	SEAARA1003	409193.98	1093161.47	634.2	ARA1003SS120240	18-Aug-01	16:25	REG	SOIL	12.00	24.00	IN	DEPTH = 20; POINT = 1479
SEAWAY	AREA A	SEAARA1003	409193.98	1093161.47	634.2	ARA1003SS121680	16-Aug-01	11:00	REG	SOIL	156.00	168.00	IN	DEPTH = 20; POINT = 1479
SEAWAY	AREA A	SEAARA1003	409193.98	1093161.47	634.2	ARA1003SS241920	18-Aug-01	16:40	REG	SOIL	168.00	192.00	IN	DEPTH = 20; POINT = 1479
SEAWAY	AREA A	SEAARA1004	409426.04	1092817.42	642.7	ARA1004SS060080	18-Aug-01	12:10	REG	SOIL	2.00	8.00	IN	DEPTH = 20; POINT = 1475
SEAWAY	AREA A	SEAARA1004	409426.04	1092817.42	642.7	ARA1004SS060140	18-Aug-01	12:15	REG	SOIL	8.00	14.00	IN	DEPTH = 20; POINT = 1475
SEAWAY	AREA A	SEAARA1004	409426.04	1092817.42	642.7	ARA1004SS061500	18-Aug-01	12:35	REG	SOIL	144.00	150.00	IN	DEPTH = 20; POINT = 1475
SEAWAY	AREA A	SEAARA1004	409426.04	1092817.42	642.7	ARA1004SS120720	18-Aug-01	12:20	REG	SOIL	60.00	72.00	IN	DEPTH = 20; POINT = 1475
SEAWAY	AREA A	SEAARA1004	409426.04	1092817.42	642.7	ARA1004SS121380	18-Aug-01	12:40	REG	SOIL	126.00	138.00	IN	DEPTH = 20; POINT = 1475
SEAWAY	AREA A	SEAARA1004	409426.04	1092817.42	642.7	ARA1004SS121740	18-Aug-01	12:45	REG	SOIL	162.00	174.00	IN	DEPTH = 20; POINT = 1475
SEAWAY	AREA A	SEAARA2001	409289.11	1093116.5	636.24	ARA2001SS060120	18-Aug-01	17:10	REG	SOIL	6.00	12.00	IN	DEPTH = 10; POINT = 1480
SEAWAY	AREA A	SEAARA2001	409289.11	1093116.5	636.24	ARA2001SS060180	18-Aug-01	17:20	REG	SOIL	12.00	18.00	IN	DEPTH = 10; POINT = 1480
SEAWAY	AREA A	SEAARA2001	409289.11	1093116.5	636.24	ARA2001SS240360	18-Aug-01	17:30	REG	SOIL	12.00	36.00	IN	DEPTH = 10; POINT = 1480
SEAWAY	AREA A	SEAARA2002	409519.34	1093040.93	624.35	ARA2002SS061860	21-Aug-01	15:00	REG	SOIL	180.00	186.00	IN	DEPTH = 20; POINT = 1481
SEAWAY	AREA A	SEAARA2002	409519.34	1093040.93	624.35	ARA2002SS080080	18-Aug-01	17:50	REG	SOIL	8.00	8.00	IN	DEPTH = 20; POINT = 1481
SEAWAY	AREA A	SEAARA2002	409519.34	1093040.93	624.35	ARA2002SS081620	18-Aug-01	18:15	REG	SOIL	154.00	162.00	IN	DEPTH = 20; POINT = 1481
SEAWAY	AREA A	SEAARA2002	409519.34	1093040.93	624.35	ARA2002SS180300	18-Aug-01	18:00	REG	SOIL	12.00	30.00	IN	DEPTH = 20; POINT = 1481
SEAWAY	AREA A	SEAARA2002	409519.34	1093040.93	624.35	ARA2002SS242280	21-Aug-01	14:50	REG	SOIL	204.00	228.00	IN	DEPTH = 20; POINT = 1481
SEAWAY	AREA A	SEAARA2002	409519.34	1093040.93	624.35	ARA2002SS242281	21-Aug-01	14:50	DUP	SOIL	204.00	228.00	IN	DEPTH = 20; POINT = 1481
SEAWAY	AREA B	SEAARB1001	409730.77	1092275.39	681.91	ARB1001SS065460			REG	SOIL	540.00	546.00	IN	DEPTH = 65; POINT = 1587
SEAWAY	AREA B	SEAARB2001	409579.44	1092361.31	657.46	ARB2001SS062160			REG	SOIL	210.00	216.00	IN	DEPTH = 40; POINT = 1585
SEAWAY	AREA B	SEAARB2001	409579.44	1092361.31	657.46	ARB2001SS062520			REG	SOIL	246.00	252.00	IN	DEPTH = 40; POINT = 1585
SEAWAY	AREA B	SEAARB2001	409579.44	1092361.31	657.46	ARB2001SS063060			REG	SOIL	300.00	306.00	IN	DEPTH = 40; POINT = 1585
SEAWAY	AREA B	SEAARB2002	409626.43	1092432.53	645.27	ARB2002SS060420			REG	SOIL	36.00	42.00	IN	DEPTH = 35; POINT = 1584
SEAWAY	AREA B	SEAARB2002	409626.43	1092432.53	645.27	ARB2002SS063060			REG	SOIL	300.00	306.00	IN	DEPTH = 35; POINT = 1584
SEAWAY	AREA B	SEAARB2003	409702.7	1092419.43	650.64	ARB2003SS061560			REG	SOIL	150.00	156.00	IN	DEPTH = 40; POINT = 1586
SEAWAY	AREA B	SEAARB2003	409702.7	1092419.43	650.64	ARB2003SS061740			REG	SOIL	168.00	174.00	IN	DEPTH = 40; POINT = 1586
SEAWAY	AREA B	SEAARB2004	409827.37	1092334.35	655.61	ARB2004SS062400			REG	SOIL	234.00	240.00	IN	DEPTH = 40; POINT = 1590
SEAWAY	AREA B	SEAARB2004	409827.37	1092334.35	655.61	ARB2004SS062460			REG	SOIL	240.00	246.00	IN	DEPTH = 40; POINT = 1590
SEAWAY	AREA B	SEAARB2005	409940.12	1092376.39	644.13	ARB2005SS062460			REG	SOIL	240.00	246.00	IN	DEPTH = 30; POINT = 1589
SEAWAY	AREA B	SEAARB2006	409804.18	1092489.89	640.39	ARB2006SS060300			REG	SOIL	24.00	30.00	IN	DEPTH = 30; POINT = 1588
SEAWAY	AREA B	SEAARB2007	409929.7	1092258.41	659.84	ARB2007SS060120			REG	SOIL	6.00	12.00	IN	DEPTH = 45; POINT = 1591
SEAWAY	AREA B	SEAARB2008	409900.72	1092052.7	697.36	ARB2008SS068640			REG	SOIL	858.00	864.00	IN	DEPTH = 85; POINT = 1592
SEAWAY	AREA B	SEAARB2010	409407.09	1092431.17	645.43	ARB2010SS061680			REG	SOIL	162.00	168.00	IN	DEPTH = 25; POINT = 5000
SEAWAY	AREA B	SEAARB2010	409407.09	1092431.17	645.43	ARB2010SS062340			REG	SOIL	228.00	234.00	IN	DEPTH = 25; POINT = 5000
SEAWAY	AREA C	SEAARC1001	409327.95	1092221.66	636.26	ARC1001SS060320	19-Aug-01	16:30	REG	SOIL	26.00	32.00	IN	DEPTH = 11.5; POINT = 1563
SEAWAY	AREA C	SEAARC1001	409327.95	1092221.66	636.26	ARC1001SS120960	19-Aug-01	16:45	REG	SOIL	84.00	96.00	IN	DEPTH = 11.5; POINT = 1563
SEAWAY	AREA C	SEAARC1002	409366.68	1092179.97	639.13	ARC1002SS061020	19-Aug-01	15:50	REG	SOIL	96.00	102.00	IN	DEPTH = 15; POINT = 1565
SEAWAY	AREA C	SEAARC1002	409366.68	1092179.97	639.13	ARC1002SS061320			REG	SOIL	126.00	132.00	IN	DEPTH = 15; POINT = 1565
SEAWAY	AREA C	SEAARC1002	409366.68	1092179.97	639.13	ARC1002SS121320	19-Aug-01	15:50	REG	SOIL	120.00	132.00	IN	DEPTH = 15; POINT = 1565
SEAWAY	AREA C	SEAARC1003	409400.73	1092113.61	641.48	ARC1003SS060960	19-Aug-01	12:05	REG	SOIL	90.00	96.00	IN	DEPTH = 17; POINT = 1566
SEAWAY	AREA C	SEAARC1003	409400.73	1092113.61	641.48	ARC1003SS061020	19-Aug-01	11:50	REG	SOIL	96.00	102.00	IN	DEPTH = 17; POINT = 1566
SEAWAY	AREA C	SEAARC1003	409400.73	1092113.61	641.48	ARC1003SS061680	19-Aug-01	12:35	REG	SOIL	162.00	168.00	IN	DEPTH = 17; POINT = 1566
SEAWAY	AREA C	SEAARC1003	409400.73	1092113.61	641.48	ARC1003SS120800	19-Aug-01	12:20	REG	SOIL	68.00	80.00	IN	DEPTH = 17; POINT = 1566
SEAWAY	AREA C	SEAARC1003	409400.73	1092113.61	641.48	ARC1003SS121320	19-Aug-01	11:35	REG	SOIL	120.00	132.00	IN	DEPTH = 17; POINT = 1566
SEAWAY	AREA C	SEAARC1004	409485.76	1092043.07	649.28	ARC1004SS120120	21-Aug-01	11:50	REG	SOIL	12.00	12.00	IN	DEPTH = 20; POINT = 1582
SEAWAY	AREA C	SEAARC1004	409485.76	1092043.07	649.28	ARC1004SS242040	21-Aug-01	11:15	REG	SOIL	180.00	204.00	IN	DEPTH = 20; POINT = 1582
SEAWAY	AREA C	SEAARC1004	409485.76	1092043.07	649.28	ARC1004SS242041	21-Aug-01	11:15	DUP	SOIL	180.00	204.00	IN	DEPTH = 20; POINT = 1582

SITE	OU_DESC	STATION	XCOORD	YCOORD	ZCOORD	SAMPLE_NO	DATE_COL	TIME_COL	FSMP_TYPE	MATRIX	Sample Start Depth	Sample End Depth	Depth Units	COMMENT
SEAWAY	AREA C	SEAARC1004	409485.76	1092043.07	649.28	ARC1004SS242400	21-Aug-01	11:40	REG	SOIL	216.00	240.00	IN	DEPTH = 20; POINT = 1582
SEAWAY	AREA C	SEAARC1004	409485.76	1092043.07	649.28	ARC1004SS242401	21-Aug-01	11:40	DUP	SOIL	216.00	240.00	IN	DEPTH = 20; POINT = 1582
SEAWAY	AREA C	SEAARC1005	409594.53	1092050.24	662.17	ARC1005SS064020			REG	SOIL	396.00	402.00	IN	DEPTH = 35; POINT = 1569
SEAWAY	AREA C	SEAARC1005	409594.53	1092050.24	662.17	ARC1005SS064140			REG	SOIL	408.00	414.00	IN	DEPTH = 35; POINT = 1569
SEAWAY	AREA C	SEAARC1006	409767.2	1092087.1	688.89	ARC1006SS067500			REG	SOIL	744.00	750.00	IN	DEPTH = 80; POINT = 1571
SEAWAY	AREA C	SEAARC1006	409767.2	1092087.1	688.89	ARC1006SS067560			REG	SOIL	750.00	756.00	IN	DEPTH = 80; POINT = 1571
SEAWAY	AREA C	SEAARC1006	409767.2	1092087.1	688.89	ARC1006SS067680			REG	SOIL	762.00	768.00	IN	DEPTH = 80; POINT = 1571
SEAWAY	AREA C	SEAARC1008	409345.42	1092202.8	637.57	ARC1008SS060360	19-Aug-01	17:45	REG	SOIL	30.00	36.00	IN	DEPTH = 15; POINT = 1564
SEAWAY	AREA C	SEAARC1008	409345.42	1092202.8	637.57	ARC1008SS060420	19-Aug-01	17:35	REG	SOIL	36.00	42.00	IN	DEPTH = 15; POINT = 1564
SEAWAY	AREA C	SEAARC1008	409345.42	1092202.8	637.57	ARC1008SS060760	19-Aug-01	18:05	REG	SOIL	70.00	76.00	IN	DEPTH = 15; POINT = 1564
SEAWAY	AREA C	SEAARC1008	409345.42	1092202.8	637.57	ARC1008SS120320	19-Aug-01	17:15	REG	SOIL	20.00	32.00	IN	DEPTH = 15; POINT = 1564
SEAWAY	AREA C	SEAARC1008	409345.42	1092202.8	637.57	ARC1008SS120540	19-Aug-01	17:55	REG	SOIL	42.00	54.00	IN	DEPTH = 15; POINT = 1564
SEAWAY	AREA C	SEAARC2001	409361.24	1092268.42	651.73	ARC2001SS062460			REG	SOIL	240.00	246.00	IN	DEPTH = 35; POINT = 1562
SEAWAY	AREA C	SEAARC2002	409402.02	1092233.68	659.96	ARC2002SS063360			REG	SOIL	330.00	336.00	IN	DEPTH = 35; POINT = 1560
SEAWAY	AREA C	SEAARC2002	409402.02	1092233.68	659.96	ARC2002SS063440			REG	SOIL	338.00	344.00	IN	DEPTH = 35; POINT = 1560
SEAWAY	AREA C	SEAARC2002	409402.02	1092233.68	659.96	ARC2002SS063500			REG	SOIL	344.00	350.00	IN	DEPTH = 35; POINT = 1560
SEAWAY	AREA C	SEAARC2003	409427.58	1092206.39	663.42	ARC2003SS061380			REG	SOIL	132.00	138.00	IN	DEPTH = 40; POINT = 1581
SEAWAY	AREA C	SEAARC2003	409427.58	1092206.39	663.42	ARC2003SS062520			REG	SOIL	246.00	252.00	IN	DEPTH = 40; POINT = 1581
SEAWAY	AREA C	SEAARC2003	409427.58	1092206.39	663.42	ARC2003SS063540			REG	SOIL	348.00	354.00	IN	DEPTH = 40; POINT = 1581
SEAWAY	AREA C	SEAARC2003	409427.58	1092206.39	663.42	ARC2003SS063840			REG	SOIL	378.00	384.00	IN	DEPTH = 40; POINT = 1581
SEAWAY	AREA C	SEAARC2003	409427.58	1092206.39	663.42	ARC2003SS064140			REG	SOIL	408.00	414.00	IN	DEPTH = 40; POINT = 1581
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS060460			REG	SOIL	40.00	46.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS062460			REG	SOIL	240.00	246.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS062640			REG	SOIL	258.00	264.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS062760			REG	SOIL	270.00	276.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS062940			REG	SOIL	288.00	294.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS063000			REG	SOIL	294.00	300.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS063300			REG	SOIL	324.00	330.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2004	409402.59	1092276.53	656.84	ARC2004SS063960			REG	SOIL	390.00	396.00	IN	DEPTH = 35; POINT = 1561
SEAWAY	AREA C	SEAARC2005	409427.93	1092250.06	659.91	ARC2005SS062880			REG	SOIL	282.00	288.00	IN	DEPTH = 40; POINT = 1559
SEAWAY	AREA C	SEAARC2005	409427.93	1092250.06	659.91	ARC2005SS063120			REG	SOIL	306.00	312.00	IN	DEPTH = 40; POINT = 1559
SEAWAY	AREA C	SEAARC2005	409427.93	1092250.06	659.91	ARC2005SS063240			REG	SOIL	318.00	324.00	IN	DEPTH = 40; POINT = 1559
SEAWAY	AREA C	SEAARC2005	409427.93	1092250.06	659.91	ARC2005SS063480			REG	SOIL	342.00	348.00	IN	DEPTH = 40; POINT = 1559
SEAWAY	AREA C	SEAARC2006	409451.17	1092265.55	659.9	ARC2006SS062700			REG	SOIL	264.00	270.00	IN	DEPTH = 40; POINT = 1558
SEAWAY	AREA C	SEAARC2006	409451.17	1092265.55	659.9	ARC2006SS062820			REG	SOIL	276.00	282.00	IN	DEPTH = 40; POINT = 1558
SEAWAY	AREA C	SEAARC2006	409451.17	1092265.55	659.9	ARC2006SS062880			REG	SOIL	282.00	288.00	IN	DEPTH = 40; POINT = 1558
SEAWAY	AREA C	SEAARC2006	409451.17	1092265.55	659.9	ARC2006SS063180			REG	SOIL	312.00	318.00	IN	DEPTH = 40; POINT = 1558
SEAWAY	AREA C	SEAARC2006	409451.17	1092265.55	659.9	ARC2006SS063780			REG	SOIL	372.00	378.00	IN	DEPTH = 40; POINT = 1558
SEAWAY	AREA C	SEAARC2007	409482.42	1092285.84	658.49	ARC2007SS062220			REG	SOIL	216.00	222.00	IN	DEPTH = 40; POINT = 1574
SEAWAY	AREA C	SEAARC2007	409482.42	1092285.84	658.49	ARC2007SS062400			REG	SOIL	234.00	240.00	IN	DEPTH = 40; POINT = 1574
SEAWAY	AREA C	SEAARC2007	409482.42	1092285.84	658.49	ARC2007SS062580			REG	SOIL	252.00	258.00	IN	DEPTH = 40; POINT = 1574
SEAWAY	AREA C	SEAARC2007	409482.42	1092285.84	658.49	ARC2007SS062820			REG	SOIL	276.00	282.00	IN	DEPTH = 40; POINT = 1574
SEAWAY	AREA C	SEAARC2008	409590.58	1092067.23	662.58	ARC2008SS062580			REG	SOIL	252.00	258.00	IN	DEPTH = 30.5; POINT = 1568
SEAWAY	AREA C	SEAARC2009	409533.81	1092094.41	665.9	ARC2009SS063960	03-Sep-01	18:15	REG	SOIL	390.00	396.00	IN	DEPTH = 45; POINT = 1567
SEAWAY	AREA C	SEAARC2009	409533.81	1092094.41	665.9	ARC2009SS123900	03-Sep-01	18:30	REG	SOIL	378.00	390.00	IN	DEPTH = 45; POINT = 1567
SEAWAY	AREA C	SEAARC2009	409533.81	1092094.41	665.9	ARC2009SS124320			REG	SOIL	420.00	432.00	IN	DEPTH = 45; POINT = 1567
SEAWAY	AREA C	SEAARC2009	409533.81	1092094.41	665.9	ARC2009SS124440	03-Sep-01	18:50	REG	SOIL	432.00	444.00	IN	DEPTH = 45; POINT = 1567
SEAWAY	AREA C	SEAARC2010	409505.38	1092133.4	666.13	ARC2010SS063660			REG	SOIL	360.00	366.00	IN	DEPTH = 45; POINT = 1579
SEAWAY	AREA C	SEAARC2010	409505.38	1092133.4	666.13	ARC2010SS063900			REG	SOIL	384.00	390.00	IN	DEPTH = 45; POINT = 1579
SEAWAY	AREA C	SEAARC2010	409505.38	1092133.4	666.13	ARC2010SS064020			REG	SOIL	396.00	402.00	IN	DEPTH = 45; POINT = 1579
SEAWAY	AREA C	SEAARC2011	409533.73	1092160.58	665.77	ARC2011SS063300			REG	SOIL	324.00	330.00	IN	DEPTH = 45; POINT = 1580
SEAWAY	AREA C	SEAARC2012	409805.25	1092040.18	690.05	ARC2012SS068700			REG	SOIL	864.00	870.00	IN	DEPTH = 80; POINT = 1570
SEAWAY	AREA C	SEAARC2012	409805.25	1092040.18	690.05	ARC2012SS068760			REG	SOIL	870.00	876.00	IN	DEPTH = 80; POINT = 1570
SEAWAY	AREA C	SEAARC2012	409805.25	1092040.18	690.05	ARC2012SS068940			REG	SOIL	888.00	894.00	IN	DEPTH = 80; POINT = 1570
SEAWAY	AREA C	SEAARC2013	409706.54	1092151.27	684.42	ARC2013SS066360	03-Sep-01	17:07	REG	SOIL	630.00	636.00	IN	DEPTH = 70; POINT = 1572
SEAWAY	AREA C	SEAARC2013	409706.54	1092151.27	684.42	ARC2013SS126240	03-Sep-01	16:35	REG	SOIL	612.00	624.00	IN	DEPTH = 70; POINT = 1572
SEAWAY	AREA C	SEAARC2013	409706.54	1092151.27	684.42	ARC2013SS246600	03-Sep-01	17:35	REG	SOIL	636.00	660.00	IN	DEPTH = 70; POINT = 1572
SEAWAY	AREA C	SEAARC2014	409287.85	1092197.59	633.22	ARC2014SS061140			REG	SOIL	108.00	114.00	IN	DEPTH = 20; POINT = 1576
SEAWAY	AREA C	SEAARC2015	409226.16	1092290.23	631.31	ARC2015SS061260			REG	SOIL	120.00	126.00	IN	DEPTH = 20; POINT = 1577
SEAWAY	AREA C	SEAARC2016	409170.49	1092367.39	629.49	ARC2016SS060120			REG	SOIL	6.00	12.00	IN	DEPTH = 20; POINT = 1575
SEAWAY	AREA C	SEAARC2016	409170.49	1092367.39	629.49	ARC2016SS060300			REG	SOIL	24.00	30.00	IN	DEPTH = 20; POINT = 1575

SITE	OU_DESC	STATION	XCOORD	YCOORD	ZCOORD	SAMPLE_NO	DATE_COL	TIME_COL	FSMP_TYPE	MATRIX	Sample Start Depth	Sample End Depth	Depth Units	COMMENT
SEAWAY	AREA C	SEAARC2016	409170.49	1092367.39	629.49	ARC2016SS060360			REG	SOIL	30.00	36.00	IN	DEPTH = 20; POINT = 1575
SEAWAY	AREA C	SEAARC2016	409170.49	1092367.39	629.49	ARC2016SS061440			REG	SOIL	138.00	144.00	IN	DEPTH = 20; POINT = 1575
SEAWAY	AREA C	SEAARC2017	409349.02	1092096.72	637.53	ARC2017SS061260			REG	SOIL	120.00	126.00	IN	DEPTH = 40; POINT = 1578
SEAWAY	AREA C	SEAARC2017	409349.02	1092096.72	637.53	ARC2017SS061500			REG	SOIL	144.00	150.00	IN	DEPTH = 40; POINT = 1578
SEAWAY	AREA C	SEAARC2017	409349.02	1092096.72	637.53	ARC2017SS061680			REG	SOIL	162.00	168.00	IN	DEPTH = 40; POINT = 1578
SEAWAY	AREA C	SEAARC2017	409349.02	1092096.72	637.53	ARC2017SS064800			REG	SOIL	474.00	480.00	IN	DEPTH = 40; POINT = 1578
SEAWAY	AREA C	SEAARC2018	409277.4	1092436.53	644.16	ARC2018SS060180			REG	SOIL	12.00	18.00	IN	DEPTH = 30; POINT = 1583
SEAWAY	AREA C	SEAARC2018	409277.4	1092436.53	644.16	ARC2018SS061440			REG	SOIL	138.00	144.00	IN	DEPTH = 30; POINT = 1583
SEAWAY	AREA C	SEAARC2019	409522.84	1092314.11	668.09	ARC2019SS063840			REG	SOIL	378.00	384.00	IN	DEPTH = 60; POINT = 1573
SEAWAY	AREA C	SEAARC2019	409522.84	1092314.11	668.09	ARC2019SS064200			REG	SOIL	414.00	420.00	IN	DEPTH = 60; POINT = 1573
SEAWAY	REF	SEACOR0000	409424.99	1092292.19	656.79	COR0000SS120361	14-Aug-01	19:15	DUP	SOIL	24.00	36.00	IN	DEPTH = 10; POINT = 1557
SEAWAY	REF	SEACOR0000	409424.99	1092292.19	656.79	COR0000SS120721	14-Aug-01	19:45	REG	SOIL	60.00	72.00	IN	DEPTH = 10; POINT = 1557
SEAWAY	REF	SEACOR0000	409424.99	1092292.19	656.79	COR0000SS120722	14-Aug-01	19:45	DUP	SOIL	60.00	72.00	IN	DEPTH = 10; POINT = 1557
SEAWAY	REF	SEACOR0000	409424.99	1092292.19	656.79	COR0000SS120901	14-Aug-01	20:15	DUP	SOIL	78.00	90.00	IN	DEPTH = 10; POINT = 1557
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS060180	16-Aug-01	10:40	REG	SOIL	12.00	18.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS060240	16-Aug-01	10:40	REG	SOIL	18.00	24.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS060960	16-Aug-01	13:00	REG	SOIL	90.00	96.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS120140			REG	SOIL	2.00	14.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS120680	16-Aug-01	12:15	REG	SOIL	56.00	68.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS120780	16-Aug-01	12:40	REG	SOIL	66.00	78.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS122060			REG	SOIL	194.00	206.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS122160	16-Aug-01	13:20	REG	SOIL	204.00	216.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS140140	16-Aug-01	10:30	REG	SOIL	14.00	14.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS140900	16-Aug-01	12:50	REG	SOIL	76.00	90.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS142060	16-Aug-01	13:10	REG	SOIL	192.00	206.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS142280	16-Aug-01	13:30	REG	SOIL	214.00	228.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0001	409417.57	1092657.01	639.78	COR0001SS180420	16-Aug-01	11:30	REG	SOIL	24.00	42.00	IN	DEPTH = 20; POINT = 1473
SEAWAY	REF	SEACOR0002	409151.59	1093019.22	636.41	COR0002SS060180	18-Aug-01	15:30	REG	SOIL	12.00	18.00	IN	DEPTH = 15; POINT = 1477
SEAWAY	REF	SEACOR0002	409151.59	1093019.22	636.41	COR0002SS060900	15-Aug-01	11:30	REG	SOIL	84.00	90.00	IN	DEPTH = 15; POINT = 1477
SEAWAY	REF	SEACOR0002	409151.59	1093019.22	636.41	COR0002SS120360	18-Aug-01	15:35	REG	SOIL	24.00	36.00	IN	DEPTH = 15; POINT = 1477
SEAWAY	REF	SEACOR0002	409151.59	1093019.22	636.41	COR0002SS170360			REG	SOIL	19.00	36.00	IN	DEPTH = 15; POINT = 1477
SEAWAY	REF	SEACOR0002	409151.59	1093019.22	636.41	COR0002SS481800	18-Aug-01	15:45	REG	SOIL	132.00	180.00	IN	DEPTH = 15; POINT = 1477
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS062400			REG	SOIL	234.00	240.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122340	15-Aug-01	19:45	REG	SOIL	222.00	234.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122341	15-Aug-01	19:45	DUP	SOIL	222.00	234.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122460	15-Aug-01	19:13	REG	SOIL	234.00	246.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122461	15-Aug-01	19:13	DUP	SOIL	234.00	246.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122580	15-Aug-01	19:15	REG	SOIL	246.00	258.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122581	15-Aug-01	19:15	DUP	SOIL	246.00	258.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122940	15-Aug-01	19:00	REG	SOIL	282.00	294.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003SS122941	15-Aug-01	19:00	DUP	SOIL	282.00	294.00	IN	DEPTH = 25; POINT = 1478
SEAWAY	REF	SEACOR0003	409100.53	1093017.49	635.75	COR0003XX			REG	SOIL	0.00	0.00	IN	DEPTH = 25; POINT = 1478

SAMPLE_NO	COLL_DATE	Lab SDG	PARAMETER	FRACTION	METHOD	LAB_RESULT	UNCERTNTY	UNITS	LAB_ QUAL	SAIC DATA_ QUAL	COMMENTS	VALIDATED	OK_TO_USE in Reports	MATRIX
COR0003SS122941	15-Aug-01	108137	AC-227	RAD	714R5	0.126	0.08	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	AC-228	RAD	713R6	1.59	0.34	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	AM-241	RAD	713R6	0.19	0.32	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	BI-212	RAD	713R6	1.73	0.85	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	BI-214	RAD	713R6	1.59	0.32	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	CO-60	RAD	713R6	0.027	0.05	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	CS-137	RAD	713R6	0.001	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	K-40	RAD	713R6	10.4	2.10	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	PA-231	RAD	713R6	0.9	1.90	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	PA-234M	RAD	713R6	6.2	8.90	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	PB-212	RAD	713R6	1.97	0.37	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	PB-214	RAD	713R6	1.88	0.35	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	RA-226	RAD	783R3	2.6	0.47	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	TH-228	RAD	714R5	1.76	0.28	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	TH-229	RAD	714R5	2.26	0.64	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	TH-230	RAD	714R5	2.07	0.32	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	TH-232	RAD	714R5	1.83	0.29	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	TH-234	RAD	713R6	2	1.20	PCI/G	TI			TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	TL-208	RAD	713R6	0.59	0.13	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	TOTACTIV	RAD	704R5	11.3	4.20	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	U-232	RAD	714R5	3.02	0.70	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	U-234	RAD	714R5	2.31	0.41	PCI/G				TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	U-235	RAD	713R6	0.27	0.38	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	U-235	RAD	714R5	0.31	0.10	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122941	15-Aug-01	108137	U-238	RAD	714R5	1.98	0.36	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	AC-227	RAD	714R5	0.17	0.10	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	AC-228	RAD	713R6	1.66	0.35	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	AM-241	RAD	713R6	0.11	0.30	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	BI-212	RAD	713R6	2.35	0.83	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	BI-214	RAD	713R6	1.87	0.36	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	CO-60	RAD	713R6	-0.023	0.04	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	CS-137	RAD	713R6	-0.034	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	K-40	RAD	713R6	9.4	2.00	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	PA-231	RAD	713R6	-0.9	2.60	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	PA-234M	RAD	713R6	2.9	8.10	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	PB-212	RAD	713R6	1.96	0.36	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	PB-214	RAD	713R6	1.97	0.36	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	RA-226	RAD	783R3	1.61	0.40	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	TH-228	RAD	714R5	1.67	0.27	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	TH-229	RAD	714R5	2	0.63	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	TH-230	RAD	714R5	2.09	0.32	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	TH-232	RAD	714R5	1.72	0.27	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	TH-234	RAD	713R6	1.8	1.10	PCI/G	TI			TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	TL-208	RAD	713R6	0.58	0.13	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	TOTACTIV	RAD	704R5	10.5	4.10	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	U-232	RAD	714R5	3.05	0.69	PCI/G				TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	U-234	RAD	714R5	1.83	0.33	PCI/G		J		TRUE	TRUE	SOIL

SAMPLE_NO	COLL_DATE	Lab SDG	PARAMETER	FRACTION	METHOD	LAB_RESULT	UNCERTNTY	UNITS	LAB_ QUAL	SAIC DATA_ QUAL	COMMENTS	VALIDATED	OK_TO_USE in Reports	MATRIX
COR0003SS122940	15-Aug-01	108137	U-235	RAD	713R6	-0.1	0.29	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	U-235	RAD	714R5	0.164	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122940	15-Aug-01	108137	U-238	RAD	714R5	2.05	0.36	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	AC-227	RAD	714R5	0.2	0.11	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	AC-228	RAD	713R6	1.23	0.37	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	AM-241	RAD	713R6	0.05	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	BI-212	RAD	713R6	1.8	1.20	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	BI-214	RAD	713R6	1.36	0.35	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	CO-60	RAD	713R6	0.08	0.10	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	CS-137	RAD	713R6	0.021	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	K-40	RAD	713R6	9	2.60	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	PA-231	RAD	713R6	-1.6	2.30	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	PA-234M	RAD	713R6	10	14.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	PB-212	RAD	713R6	1.7	0.36	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	PB-214	RAD	713R6	1.51	0.34	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	RA-226	RAD	783R3	2.53	0.46	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	TH-228	RAD	714R5	1.5	0.24	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	TH-229	RAD	714R5	2.18	0.62	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	TH-230	RAD	714R5	1.93	0.29	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	TH-232	RAD	714R5	1.51	0.24	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	TH-234	RAD	713R6	1.85	0.97	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	TL-208	RAD	713R6	0.52	0.17	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	TOTACTIV	RAD	704R5	11.7	4.00	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	U-232	RAD	714R5	3.24	0.66	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	U-234	RAD	714R5	1.58	0.27	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	U-235	RAD	713R6	0.63	0.40	PCI/G				TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	U-235	RAD	714R5	0.154	0.06	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122581	15-Aug-01	108137	U-238	RAD	714R5	1.56	0.27	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108138	AC-227	T-RAD	714R5	0.02	0.16	PCI/L	U	UJ		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	AC-228	T-RAD	713R6	-22	33.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	AM-241	T-RAD	713R6	-1	10.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	CO-60	T-RAD	713R6	-8.7	9.20	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	CS-137	T-RAD	713R6	-1.1	7.70	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	K-40	T-RAD	713R6	-30	130.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	PA-231	T-RAD	713R6	0	200.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	PA-234M	T-RAD	713R6	100	1300.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	RA-226	T-RAD	783R2	0.28	0.14	PCI/L	LT	J		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	RA-228	T-RAD	724R6	0.93	0.27	PCI/L	LT			TRUE	TRUE	WATER
COR0003SS122580	15-Aug-01	108138	TH-228	T-RAD	714R5	0.08	0.11	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	TH-229	T-RAD	714R5	9.32	2.00	PCI/L				TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	TH-230	T-RAD	714R5	0.267	0.10	PCI/L	LT	J		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	TH-232	T-RAD	714R5	0.052	0.06	PCI/L				TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	TH-234	T-RAD	713R6	4	80.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	U-232	T-RAD	714R5	43.3	10.00	PCI/L				TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	U-234	T-RAD	714R5	1.1	0.68	PCI/L		J		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	U-235	T-RAD	713R6	25	35.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	U-235	T-RAD	714R5	0.34	0.39	PCI/L				TRUE	TRUE	E

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COR0003SS122580	15-Aug-01	108138	U-238	T-RAD	714R5	0.85	0.59	PCI/L	LT			TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108137	AC-227	RAD	714R5	0.058	0.07	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	AC-228	RAD	713R6	1.07	0.62	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	AM-241	RAD	713R6	0.04	0.17	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	BI-214	RAD	713R6	1.64	0.60	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	CO-60	RAD	713R6	-0.06	0.18	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	CS-137	RAD	713R6	-0.18	0.16	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	K-40	RAD	713R6	9.1	4.90	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	PA-231	RAD	713R6	0.6	4.20	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	PA-234M	RAD	713R6	19	27.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	PB-212	RAD	713R6	1.12	0.42	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	PB-214	RAD	713R6	1.59	0.44	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	RA-226	RAD	783R3	2.04	0.40	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	TH-228	RAD	714R5	1.36	0.23	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	TH-229	RAD	714R5	2.23	0.63	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	TH-230	RAD	714R5	1.88	0.29	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	TH-232	RAD	714R5	1.51	0.24	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	TH-234	RAD	713R6	2.9	1.40	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	TL-208	RAD	713R6	0.46	0.26	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	TOTACTIV	RAD	704R5	11.1	4.00	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	U-232	RAD	714R5	2.9	0.68	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	U-234	RAD	714R5	1.66	0.30	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	U-235	RAD	713R6	-0.13	0.56	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	U-235	RAD	714R5	0.191	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108137	U-238	RAD	714R5	1.76	0.31	PCI/G				TRUE	TRUE	SOIL
COR0003SS122580	15-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.398	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	ACID	T-HER	SW8151	0.0198	0.00	MG/L				TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.212	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.279	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0464	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	ARSENIC	T-M	SW6010	0.056	0.00	MG/L				TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	BARIUM	T-M	SW6010	2.1	0.00	MG/L				TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0003SS122580	15-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	CHROMIUM	T-M	SW6010	0.003	0.00	MG/L	B	B		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00352	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0491	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.185	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.287	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.226	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00456	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0468	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122580	15-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122580	15-Aug-01	108138	ZINC	T-M	SW6010	0.51	0.00	MG/L				TRUE	TRUE	E
COR0003SS122461	15-Aug-01	108137	AC-227	RAD	714R5	0.14	0.11	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	AC-228	RAD	713R6	0.95	0.35	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	AM-241	RAD	713R6	0.04	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	BI-214	RAD	713R6	0.89	0.33	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	CO-60	RAD	713R6	0.01	0.11	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	CS-137	RAD	713R6	0.074	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	K-40	RAD	713R6	4.9	2.10	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	PA-231	RAD	713R6	-3.2	2.40	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	PA-234M	RAD	713R6	-2	16.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	PB-212	RAD	713R6	1	0.28	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	PB-214	RAD	713R6	1.2	0.32	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	RA-226	RAD	783R3	0.94	0.26	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	TH-228	RAD	714R5	0.9	0.17	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	TH-229	RAD	714R5	1.99	0.62	PCI/G				TRUE	TRUE	SOIL

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COR0003SS122461	15-Aug-01	108137	TH-230	RAD	714R5	1.43	0.23	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	TH-232	RAD	714R5	0.82	0.15	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	TH-234	RAD	713R6	2	1.00	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	TL-208	RAD	713R6	0.29	0.14	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	TOTACTIV	RAD	704R5	9.8	4.60	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	U-232	RAD	714R5	3.44	0.65	PCI/G				TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	U-234	RAD	714R5	0.9	0.18	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	U-235	RAD	713R6	-0.01	0.38	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	U-235	RAD	714R5	0.061	0.04	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122461	15-Aug-01	108137	U-238	RAD	714R5	0.93	0.18	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108138	AC-227	T-RAD	714R5	0.47	0.29	PCI/L	LT	J		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	AC-228	T-RAD	713R6	35	36.00	PCI/L	TI			TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	AM-241	T-RAD	713R6	-4.8	9.90	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CO-60	T-RAD	713R6	2.4	8.50	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CS-137	T-RAD	713R6	-6.3	8.70	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	K-40	T-RAD	713R6	-50	120.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	PA-231	T-RAD	713R6	-90	210.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	PA-234M	T-RAD	713R6	700	1300.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	RA-226	T-RAD	783R2	1.17	0.29	PCI/L	Y	J		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	RA-228	T-RAD	724R6	0.94	0.25	PCI/L	LT			TRUE	TRUE	WATER
COR0003SS122460	15-Aug-01	108138	TH-228	T-RAD	714R5	-0.02	0.16	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	TH-229	T-RAD	714R5	10.2	2.00	PCI/L				TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	TH-230	T-RAD	714R5	0.13	0.08	PCI/L	LT	J		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	TH-232	T-RAD	714R5	0.028	0.03	PCI/L	LT			TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	TH-234	T-RAD	713R6	-28	82.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	U-232	T-RAD	714R5	40.9	11.00	PCI/L				TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	U-234	T-RAD	714R5	0.87	0.65	PCI/L	LT	J		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	U-235	T-RAD	713R6	-11	36.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	U-235	T-RAD	714R5	0.03	0.23	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	U-238	T-RAD	714R5	0.98	0.69	PCI/L	LT			TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108137	AC-227	RAD	714R5	0.058	0.09	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	AC-228	RAD	713R6	0.84	0.42	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	AM-241	RAD	713R6	0.19	0.17	PCI/G	TI			TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	BI-214	RAD	713R6	0.91	0.39	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	CO-60	RAD	713R6	0	0.11	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	CS-137	RAD	713R6	0.045	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	K-40	RAD	713R6	6.6	2.60	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	PA-231	RAD	713R6	-4.5	2.90	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	PA-234M	RAD	713R6	-5	16.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	PB-212	RAD	713R6	1.13	0.32	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	PB-214	RAD	713R6	1.23	0.37	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	RA-226	RAD	783R3	1.02	0.35	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	TH-228	RAD	714R5	1.02	0.18	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	TH-229	RAD	714R5	2.38	0.61	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	TH-230	RAD	714R5	1.52	0.23	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	TH-232	RAD	714R5	1	0.16	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	TH-234	RAD	713R6	2.1	1.10	PCI/G				TRUE	TRUE	SOIL

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COR0003SS122460	15-Aug-01	108137	TL-208	RAD	713R6	0.39	0.17	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	TOTACTIV	RAD	704R5	8.5	4.00	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	U-232	RAD	714R5	3.03	0.67	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	U-234	RAD	714R5	1.12	0.22	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	U-235	RAD	713R6	0.05	0.47	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	U-235	RAD	714R5	0.108	0.05	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108137	U-238	RAD	714R5	1.1	0.21	PCI/G				TRUE	TRUE	SOIL
COR0003SS122460	15-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.419	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	ACID	T-HER	SW8151	0.0187	0.00	MG/L				TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.205	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.309	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.15	0.00	MG/L				TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0533	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	ARSENIC	T-M	SW6010	0.012	0.00	MG/L	B	B		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	BARIUM	T-M	SW6010	1.7	0.00	MG/L				TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CADMIUM	T-M	SW6010	0.011	0.00	MG/L				TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.008	0.00	MG/L	J	J		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0078	0.00	MG/L	B	B		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00322	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0552	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	LEAD	T-M	SW6010	0.16	0.00	MG/L				TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0003SS122460	15-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.207	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.341	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.169	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00414	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0564	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122460	15-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122460	15-Aug-01	108138	ZINC	T-M	SW6010	3.5	0.00	MG/L				TRUE	TRUE	E
COR0003SS122341	15-Aug-01	108137	AC-227	RAD	714R5	0.117	0.08	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	AC-228	RAD	713R6	1.27	0.51	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	AM-241	RAD	713R6	0.01	0.18	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	BI-214	RAD	713R6	1.52	0.44	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	CO-60	RAD	713R6	-0.102	0.10	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	CS-137	RAD	713R6	-0.03	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	K-40	RAD	713R6	7.3	2.70	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	PA-231	RAD	713R6	-2.7	3.50	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	PA-234M	RAD	713R6	20	19.00	PCI/G	TI			TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	PB-212	RAD	713R6	1.44	0.36	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	PB-214	RAD	713R6	1.35	0.38	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	RA-226	RAD	783R3	1.31	0.32	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	TH-228	RAD	714R5	0.95	0.16	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	TH-229	RAD	714R5	2.27	0.61	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	TH-230	RAD	714R5	2.23	0.32	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	TH-232	RAD	714R5	0.95	0.16	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	TH-234	RAD	713R6	1.8	1.20	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	TL-208	RAD	713R6	0.39	0.17	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	TOTACTIV	RAD	704R5	6.6	4.30	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	U-232	RAD	714R5	3.35	0.68	PCI/G				TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	U-234	RAD	714R5	0.94	0.19	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	U-235	RAD	713R6	-0.11	0.51	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	U-235	RAD	714R5	0.094	0.05	PCI/G	LT			TRUE	TRUE	SOIL
COR0003SS122341	15-Aug-01	108137	U-238	RAD	714R5	1.07	0.21	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108138	AC-227	T-RAD	714R5	0.26	0.29	PCI/L		J		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	AC-228	T-RAD	713R6	0	35.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	AM-241	T-RAD	713R6	2.5	8.70	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CO-60	T-RAD	713R6	6.5	9.80	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CS-137	T-RAD	713R6	-3.9	8.60	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	K-40	T-RAD	713R6	-110	160.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	PA-231	T-RAD	713R6	-60	200.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	PA-234M	T-RAD	713R6	1100	1500.00	PCI/L	U	U		TRUE	TRUE	E

SAMPLE_NO	COLL_DATE	Lab SDG	PARAMETER	FRACTION	METHOD	LAB_RESULT	UNCERTNTY	UNITS	LAB_ QUAL	SAIC DATA_ QUAL	COMMENTS	VALIDATED	OK_TO_USE in Reports	MATRIX
COR0003SS122340	15-Aug-01	108138	RA-226	T-RAD	783R2	0.69	0.26	PCI/L	LT	J		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	RA-228	T-RAD	724R6	0.88	0.27	PCI/L	LT			TRUE	TRUE	WATER
COR0003SS122340	15-Aug-01	108138	TH-228	T-RAD	714R5	0.08	0.14	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	TH-229	T-RAD	714R5	9.38	2.00	PCI/L				TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	TH-230	T-RAD	714R5	0.159	0.07	PCI/L	LT	J		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	TH-232	T-RAD	714R5	0.015	0.04	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	TH-234	T-RAD	713R6	-2	78.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	U-232	T-RAD	714R5	46.3	10.00	PCI/L				TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	U-234	T-RAD	714R5	1.12	0.66	PCI/L		J		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	U-235	T-RAD	713R6	9	32.00	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	U-235	T-RAD	714R5	0.07	0.18	PCI/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	U-238	T-RAD	714R5	0.93	0.60	PCI/L	LT			TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108137	AC-227	RAD	714R5	0.23	0.11	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	AC-228	RAD	713R6	1.4	1.10	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	AM-241	RAD	713R6	-0.04	0.22	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	BI-214	RAD	713R6	1.2	0.62	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	CO-60	RAD	713R6	0.05	0.24	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	CS-137	RAD	713R6	0.11	0.21	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	K-40	RAD	713R6	4.7	4.10	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	PA-231	RAD	713R6	1	6.10	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	PA-234M	RAD	713R6	12	40.00	PCI/G	U			TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	PB-212	RAD	713R6	1.11	0.50	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	PB-214	RAD	713R6	1.38	0.53	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	RA-226	RAD	783R3	1.12	0.41	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	TH-228	RAD	714R5	1.16	0.20	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	TH-229	RAD	714R5	2.49	0.61	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	TH-230	RAD	714R5	2.76	0.39	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	TH-232	RAD	714R5	1.08	0.17	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	TH-234	RAD	713R6	1.3	1.30	PCI/G	TI			TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	TL-208	RAD	713R6	0.51	0.34	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	TOTACTIV	RAD	704R5	11	4.50	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	U-232	RAD	714R5	2.91	0.70	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	U-234	RAD	714R5	1.56	0.30	PCI/G		J		TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	U-235	RAD	713R6	0.59	0.85	PCI/G	U	U		TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108137	U-235	RAD	714R5	0.109	0.06	PCI/G	LT			TRUE	FALSE	SOIL
COR0003SS122340	15-Aug-01	108137	U-238	RAD	714R5	1.51	0.29	PCI/G				TRUE	TRUE	SOIL
COR0003SS122340	15-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.373	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	ACID	T-HER	SW8151	0.019	0.00	MG/L				TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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COR0003SS122340	15-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.278	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.037	0.00	MG/L	J	J		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0519	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	ARSENIC	T-M	SW6010	0.027	0.00	MG/L	B	B		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	BARIUM	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0031	0.00	MG/L	B	B		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00118	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0544	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.205	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.26	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	B	B		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.24	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00429	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0541	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0003SS122340	15-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0003SS122340	15-Aug-01	108138	ZINC	T-M	SW6010	0.41	0.00	MG/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	AC-227	T-RAD	714R5	0.59	0.45	PCI/L		J		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	AC-228	T-RAD	713R6	17	35.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	AM-241	T-RAD	713R6	0	10.00	PCI/L	U	U		TRUE	TRUE	E

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COR0002SS481800	18-Aug-01	108178	CO-60	T-RAD	713R6	0	9.80	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	CS-137	T-RAD	713R6	-1.3	8.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	K-40	T-RAD	713R6	-120	140.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	PA-231	T-RAD	713R6	10	200.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	PA-234M	T-RAD	713R6	1000	1300.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	RA-226	T-RAD	783R3	1.64	0.34	PCI/L	Y1			TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	RA-228	T-RAD	724R6	0.7	0.45	PCI/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TH-228	T-RAD	714R5	-0.09	0.20	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TH-229	T-RAD	714R5	9.3	2.50	PCI/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TH-230	T-RAD	714R5	0.09	0.12	PCI/L	U	UJ		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.008	0.05	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TH-234	T-RAD	713R6	-14	86.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	U-232	T-RAD	714R5	50.1	9.40	PCI/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	U-234	T-RAD	714R5	2.24	0.77	PCI/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	U-235	T-RAD	713R6	1	35.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	U-235	T-RAD	714R5	0.04	0.12	PCI/L	U	UJ		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	U-238	T-RAD	714R5	1.54	0.62	PCI/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108177	AC-227	RAD	714R5	0.27	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	AC-228	RAD	713R6	0.47	0.19	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	AM-241	RAD	713R6	-0.31	0.26	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	BI-214	RAD	713R6	0.65	0.19	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	CO-60	RAD	713R6	0.015	0.04	PCI/G	U			TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	CS-137	RAD	713R6	0.025	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	K-40	RAD	713R6	7.7	1.70	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	PA-231	RAD	713R6	0	1.50	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	PA-234M	RAD	713R6	-0.3	7.50	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	PB-212	RAD	713R6	0.55	0.14	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	PB-214	RAD	713R6	0.68	0.16	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	RA-226	RAD	783R3	1.73	0.57	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	TH-228	RAD	714R5	0.49	0.11	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	TH-229	RAD	714R5	2.76	0.61	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	TH-230	RAD	714R5	1.92	0.28	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	TH-232	RAD	714R5	0.434	0.09	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	TH-234	RAD	713R6	0.85	0.97	PCI/G	TI	J		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	TL-208	RAD	713R6	0.129	0.06	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	TOTACTIV	RAD	704R5	11.4	4.30	PCI/G		J		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	U-232	RAD	714R5	2.61	0.69	PCI/G				TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	U-234	RAD	714R5	0.63	0.15	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	U-235	RAD	713R6	-0.06	0.30	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	U-235	RAD	714R5	0.075	0.05	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108177	U-238	RAD	714R5	0.74	0.17	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS481800	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.332	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0002SS481800	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	ACID	T-HER	SW8151	0.0176	0.00	MG/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.208	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.291	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0473	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	BARIUM	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.019	0.00	MG/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0025	0.00	MG/L	B	B		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00337	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0475	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	LEAD	T-M	SW6010	0.21	0.00	MG/L				TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.215	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.296	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	SILVER	T-M	SW6010	0.0026	0.00	MG/L	B	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.197	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00484	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.053	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS481800	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0002SS481800	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS481800	18-Aug-01	108178	ZINC	T-M	SW6010	11	0.00	MG/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	AC-227	T-RAD	714R5	0.01	0.17	PCI/L	U	UJ		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	AC-228	T-RAD	713R6	-29	37.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	AM-241	T-RAD	713R6	1.2	9.40	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CO-60	T-RAD	713R6	0	9.50	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CS-137	T-RAD	713R6	-6.6	8.10	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	K-40	T-RAD	713R6	-10	110.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	PA-231	T-RAD	713R6	-150	230.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	PA-234M	T-RAD	713R6	800	1600.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	RA-226	T-RAD	783R3	1.54	0.32	PCI/L	Y1			TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	RA-228	T-RAD	724R6	0.92	0.44	PCI/L	LT			TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TH-228	T-RAD	714R5	-0.016	0.05	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TH-229	T-RAD	714R5	9.48	2.40	PCI/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TH-230	T-RAD	714R5	0.24	0.16	PCI/L	LT	J		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TH-232	T-RAD	714R5	0.017	0.05	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TH-234	T-RAD	713R6	-51	69.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	U-232	T-RAD	714R5	46.5	9.50	PCI/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	U-234	T-RAD	714R5	2.97	0.92	PCI/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	U-235	T-RAD	713R6	-17	39.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	U-235	T-RAD	714R5	0.65	0.40	PCI/L	LT	J		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	U-238	T-RAD	714R5	1.53	0.63	PCI/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108177	AC-227	RAD	714R5	0.33	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	AC-228	RAD	713R6	0.26	0.18	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	AM-241	RAD	713R6	0.035	0.10	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	BI-214	RAD	713R6	0.54	0.20	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	CO-60	RAD	713R6	0.031	0.05	PCI/G	U			TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	CS-137	RAD	713R6	0.048	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	K-40	RAD	713R6	7.7	2.10	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	PA-231	RAD	713R6	-1.9	1.70	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	PA-234M	RAD	713R6	5.1	8.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	PB-212	RAD	713R6	0.47	0.14	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	PB-214	RAD	713R6	0.53	0.16	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	RA-226	RAD	783R3	1.02	0.25	PCI/G		J		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	TH-228	RAD	714R5	0.62	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	TH-229	RAD	714R5	3.07	0.60	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	TH-230	RAD	714R5	1.62	0.24	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	TH-232	RAD	714R5	0.539	0.10	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	TH-234	RAD	713R6	0.54	0.75	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	TL-208	RAD	713R6	0.133	0.09	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	TOTACTIV	RAD	704R5	10.7	4.20	PCI/G		U		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	U-232	RAD	714R5	3.07	0.67	PCI/G				TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	U-234	RAD	714R5	0.85	0.18	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	U-235	RAD	713R6	0.22	0.27	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	U-235	RAD	714R5	0.041	0.03	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108177	U-238	RAD	714R5	0.6	0.14	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS120360	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0002SS120360	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.319	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	ACID	T-HER	SW8151	0.0144	0.00	MG/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.209	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.279	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0479	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	BARIUM	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.16	0.00	MG/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	COPPER	T-M	SW6010	0.026	0.00	MG/L	B	B		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00452	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0467	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	LEAD	T-M	SW6010	0.24	0.00	MG/L				TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.287	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	SILVER	T-M	SW6010	0.0048	0.00	MG/L	B	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.221	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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COR0002SS120360	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00499	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0476	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS120360	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS120360	18-Aug-01	108178	ZINC	T-M	SW6010	13	0.00	MG/L				TRUE	TRUE	E
COR0002SS060900	15-Aug-01	108170	AC-227	RAD	714R5	0.35	0.16	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	AC-228	RAD	713R6	1.59	0.40	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	AM-241	RAD	713R6	0.12	0.13	PCI/G	TI			TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	BI-212	RAD	713R6	1.3	1.30	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	BI-214	RAD	713R6	1.87	0.43	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	CO-60	RAD	713R6	0	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	CS-137	RAD	713R6	0.047	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	K-40	RAD	713R6	9.8	2.50	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	PA-231	RAD	713R6	-1.8	2.40	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	PA-234M	RAD	713R6	0	11.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	PB-212	RAD	713R6	1.99	0.40	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	PB-214	RAD	713R6	1.84	0.37	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	RA-226	RAD	783R3	1.21	0.27	PCI/G		J		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	TH-228	RAD	714R5	2.07	0.33	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	TH-229	RAD	714R5	1.85	0.64	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	TH-230	RAD	714R5	2.97	0.44	PCI/G		J		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	TH-232	RAD	714R5	1.98	0.31	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	TH-234	RAD	713R6	2.02	0.92	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	TL-208	RAD	713R6	0.51	0.15	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	TOTACTIV	RAD	704R5	13.8	4.40	PCI/G		J		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	U-232	RAD	714R5	2.48	0.69	PCI/G				TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	U-234	RAD	714R5	1.57	0.29	PCI/G		J		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	U-235	RAD	713R6	0.26	0.39	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	U-235	RAD	714R5	0.164	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS060900	15-Aug-01	108170	U-238	RAD	714R5	1.64	0.30	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108178	AC-227	T-RAD	714R5	0.23	0.27	PCI/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	AC-228	T-RAD	713R6	-9	37.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	AM-241	T-RAD	713R6	-8.6	8.90	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CO-60	T-RAD	713R6	-3	11.00	PCI/L	U			TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CS-137	T-RAD	713R6	-6.5	8.90	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	K-40	T-RAD	713R6	-100	140.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	PA-231	T-RAD	713R6	-30	210.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	PA-234M	T-RAD	713R6	-1100	1500.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	RA-226	T-RAD	783R3	0.97	0.25	PCI/L	LT			TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	RA-228	T-RAD	724R6	0.89	0.44	PCI/L	LT			TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TH-228	T-RAD	714R5	0.039	0.08	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TH-229	T-RAD	714R5	9.64	2.50	PCI/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TH-230	T-RAD	714R5	0.24	0.18	PCI/L	LT	J		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TH-232	T-RAD	714R5	0.045	0.08	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TH-234	T-RAD	713R6	-19	77.00	PCI/L	U	U		TRUE	TRUE	E

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COR0002SS060180	18-Aug-01	108178	U-232	T-RAD	714R5	47.4	9.40	PCI/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	U-234	T-RAD	714R5	2.2	0.78	PCI/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	U-235	T-RAD	713R6	-23	33.00	PCI/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	U-235	T-RAD	714R5	0.21	0.24	PCI/L		J		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	U-238	T-RAD	714R5	1.49	0.62	PCI/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108177	AC-227	RAD	714R5	0.38	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	AC-228	RAD	713R6	0.22	0.25	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	AM-241	RAD	713R6	-0.008	0.08	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	BI-214	RAD	713R6	0.48	0.20	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	CO-60	RAD	713R6	-0.009	0.06	PCI/G	U			TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	CS-137	RAD	713R6	0.023	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	K-40	RAD	713R6	7.7	2.20	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	PA-231	RAD	713R6	-1	1.50	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	PA-234M	RAD	713R6	3	11.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	PB-212	RAD	713R6	0.43	0.15	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	PB-214	RAD	713R6	0.41	0.15	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	RA-226	RAD	783R3	1.38	0.30	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	TH-228	RAD	714R5	0.466	0.09	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	TH-229	RAD	714R5	3.26	0.59	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	TH-230	RAD	714R5	2.01	0.28	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	TH-232	RAD	714R5	0.503	0.09	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	TH-234	RAD	713R6	0.66	0.56	PCI/G		J		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	TL-208	RAD	713R6	0.13	0.08	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	TOTACTIV	RAD	704R5	9.2	4.10	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	U-232	RAD	714R5	2.67	0.71	PCI/G				TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	U-234	RAD	714R5	0.84	0.19	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	U-235	RAD	713R6	-0.08	0.26	PCI/G	U	U		TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	U-235	RAD	714R5	0.051	0.04	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108177	U-238	RAD	714R5	0.74	0.18	PCI/G	LT			TRUE	TRUE	SOIL
COR0002SS060180	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.33	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	ACID	T-HER	SW8151	0.0184	0.00	MG/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.213	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.296	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0484	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	BARIUM	T-M	SW6010	0.82	0.00	MG/L				TRUE	TRUE	E

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COR0002SS060180	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.17	0.00	MG/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0023	0.00	MG/L	B	B		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	COPPER	T-M	SW6010	0.11	0.00	MG/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00499	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0483	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	LEAD	T-M	SW6010	0.14	0.00	MG/L				TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.22	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.305	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.214	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00487	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0533	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0002SS060180	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0002SS060180	18-Aug-01	108178	ZINC	T-M	SW6010	7.6	0.00	MG/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	112048	PH	OTHER	SW9045C	7.2	0.00	PH		J		TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108138	AC-227	T-RAD	714R5	0.56	0.35	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	AC-228	T-RAD	713R6	-10	40.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	AM-241	T-RAD	713R6	5.4	9.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CO-60	T-RAD	713R6	-2	10.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CS-137	T-RAD	713R6	-7.1	9.30	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	K-40	T-RAD	713R6	60	160.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	PA-231	T-RAD	713R6	60	200.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	PA-234M	T-RAD	713R6	700	1600.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	RA-226	T-RAD	783R2	21.3	2.30	PCI/L	Y	J		TRUE	TRUE	E

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COR0001SS180420	16-Aug-01	108138	RA-228	T-RAD	724R6	0.86	0.26	PCI/L	LT			TRUE	TRUE	WATER
COR0001SS180420	16-Aug-01	108138	TH-228	T-RAD	714R5	0.05	0.13	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	TH-229	T-RAD	714R5	8.77	2.00	PCI/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	TH-230	T-RAD	714R5	0.43	0.14	PCI/L	LT			TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	TH-232	T-RAD	714R5	-0.009	0.04	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	TH-234	T-RAD	713R6	14	84.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	U-232	T-RAD	714R5	37.9	11.00	PCI/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	U-234	T-RAD	714R5	69	12.00	PCI/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	U-235	T-RAD	713R6	3	33.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	U-235	T-RAD	714R5	3.9	1.60	PCI/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	U-238	T-RAD	714R5	76	13.00	PCI/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108137	AC-227	RAD	714R5	7	1.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	AC-228	RAD	713R6	0.9	0.37	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	AM-241	RAD	713R6	0.04	0.76	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	BI-214	RAD	713R6	6.6	1.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	CO-60	RAD	713R6	-0.09	0.14	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	CS-137	RAD	713R6	0.03	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	K-40	RAD	713R6	16.9	4.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	PA-231	RAD	713R6	1.5	6.00	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	PA-234M	RAD	713R6	30	32.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	PB-212	RAD	713R6	0.85	0.26	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	PB-214	RAD	713R6	9.1	1.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	RA-226	RAD	783R3	12.1	1.40	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	TH-227	RAD	713R6	9.7	2.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	TH-228	RAD	714R5	0.86	0.17	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	TH-229	RAD	714R5	2.07	0.63	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	TH-230	RAD	714R5	167	21.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	TH-232	RAD	714R5	1.09	0.18	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	TH-234	RAD	713R6	15.7	3.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	TOTACTIV	RAD	704R5	260	27.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	U-232	RAD	714R5	13.5	2.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	U-234	RAD	714R5	15.4	2.30	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	U-235	RAD	713R6	3.3	1.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	U-235	RAD	714R5	0.68	0.25	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108137	U-238	RAD	714R5	14.6	2.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.316	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	ACID	T-HER	SW8151	0.0173	0.00	MG/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.229	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.298	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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COR0001SS180420	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0476	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	BARIUM	T-M	SW6010	0.9	0.00	MG/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.028	0.00	MG/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	COPPER	T-M	SW6010	0.073	0.00	MG/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00442	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0484	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	LEAD	T-M	SW6010	0.083	0.00	MG/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.21	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.267	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.237	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.0044	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.055	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS180420	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS180420	16-Aug-01	108138	ZINC	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
COR0001SS180420	16-Aug-01	112048	CYANIDE, TOTAL	OTHER	SW9010	0.69	0.00	MG/KG		J		TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	112048	REACTIVE CYANIDE	OTHER	1	0.1	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
COR0001SS180420	16-Aug-01	112048	REACTIVE SULFIDE	OTHER	2	50	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108138	AC-227	T-RAD	714R5	0.37	0.30	PCI/L		J		TRUE	TRUE	E

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COR0001SS142280	16-Aug-01	111157	AC-227	T-RAD	714R6	0.06	0.12	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Ac-227		714R6	0.06	0.12	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	AC-228	T-RAD	713R6	-41	37.00	PCI/L	U	UJ		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	AC-228	T-RAD	713R6	-5	35.00	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Ac-228		713R6	-5	35.00	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	AM-241	T-RAD	713R6	3.1	9.50	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	AM-241	T-RAD	713R6	7.9	9.50	PCI/L	TI			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Am-241		713R6	7.9	9.50	PCI/L	TI			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	CO-60	T-RAD	713R6	-1	13.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	CO-60	T-RAD	713R6	3.4	9.30	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Co-60		713R6	3.4	9.30	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	CS-137	T-RAD	713R6	-1.3	8.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	CS-137	T-RAD	713R6	-13	9.60	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Cs-137		713R6	-13	9.60	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	K-40	T-RAD	713R6	80	160.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	K-40	T-RAD	713R6	10	170.00	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	PA-231	T-RAD	713R6	-160	230.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	PA-231	T-RAD	713R6	60	240.00	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Pa-231		713R6	60	240.00	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	PA-234M	T-RAD	713R6	1500	1500.00	PCI/L	TI			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	PA-234M	T-RAD	713R6	100	1600.00	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Pa-234m		713R6	100	1600.00	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	RA-226	T-RAD	783R2	24.5	2.60	PCI/L	Y	J		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	RA-226	T-RAD	713R6	220	140.00	PCI/L	TI			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	RA-226	T-RAD	783R3	-0.33	0.36	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Ra-226		713R6	220	140.00	PCI/L	TI			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	111157	Ra-226		783R3	-0.33	0.36	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	RA-228	T-RAD	724R6	1.32	0.25	PCI/L				TRUE	TRUE	WATER
COR0001SS142280	16-Aug-01	111157	Ra-228		724R6	0.31	0.73	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	TH-228	T-RAD	714R5	-0.01	0.13	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	TH-228	T-RAD	714R6	0.03	0.10	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Th-228		714R6	0.03	0.10	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	TH-229	T-RAD	714R5	9.75	2.00	PCI/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	TH-229	T-RAD	714R6	4.97	1.20	PCI/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Th-229		714R6	4.97	1.20	PCI/L				TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	TH-230	T-RAD	714R5	0.5	0.13	PCI/L	LT			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	TH-230	T-RAD	714R6	0.136	0.06	PCI/L	LT			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Th-230		714R6	0.136	0.06	PCI/L	LT			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	TH-232	T-RAD	714R5	0.015	0.04	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	TH-232	T-RAD	714R6	-0.03	0.03	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Th-232		714R6	-0.03	0.03	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	TH-234	T-RAD	713R6	-5	84.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	TH-234	T-RAD	713R6	1	91.00	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	Th-234		713R6	1	91.00	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	111157	TotActiv		704R5	28	5.90	PCI/L				TRUE	TRUE	LIQUID
COR0001SS142280	16-Aug-01	108138	U-232	T-RAD	714R5	16.4	11.00	PCI/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	U-232	T-RAD	714R6	22.2	5.50	PCI/L				TRUE	TRUE	E

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COR0001SS142280	16-Aug-01	108138	U-234	T-RAD	714R5	207	31.00	PCI/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	U-234	T-RAD	714R6	0.74	0.41	PCI/L	LT			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	U-235	T-RAD	713R6	14	37.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	U-235	T-RAD	714R5	12.1	3.00	PCI/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	U-235	T-RAD	713R6	-5	36.00	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	U-235	T-RAD	714R6	-0.01	0.09	PCI/L	U			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	U-238	T-RAD	714R5	211	32.00	PCI/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	111157	U-238	T-RAD	714R6	0.35	0.27	PCI/L	LT			TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108137	AC-227	RAD	714R5	0.21	0.13	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	AC-228	RAD	713R6	1.49	0.31	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	AM-241	RAD	713R6	0.18	0.30	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	BI-212	RAD	713R6	1.66	0.82	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	BI-214	RAD	713R6	1.63	0.33	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	CO-60	RAD	713R6	0.013	0.05	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	CS-137	RAD	713R6	0.051	0.05	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	K-40	RAD	713R6	10	2.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	PA-231	RAD	713R6	0.6	1.30	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	PA-234M	RAD	713R6	3.9	7.90	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	PB-212	RAD	713R6	1.87	0.35	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	PB-214	RAD	713R6	1.86	0.35	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	RA-226	RAD	783R3	1.55	0.33	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	TH-228	RAD	714R5	1.84	0.30	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	TH-229	RAD	714R5	2	0.63	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	TH-230	RAD	714R5	2.19	0.33	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	TH-232	RAD	714R5	1.69	0.26	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	TH-234	RAD	713R6	1.52	0.99	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	TL-208	RAD	713R6	0.53	0.12	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	TOTACTIV	RAD	704R5	10.8	4.00	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	U-232	RAD	714R5	3.08	0.66	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	U-234	RAD	714R5	1.79	0.30	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	U-235	RAD	713R6	0.05	0.36	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	U-235	RAD	714R5	0.198	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108137	U-238	RAD	714R5	1.98	0.33	PCI/G				TRUE	TRUE	SOIL
COR0001SS142280	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.364	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	ACID	T-HER	SW8151	0.0173	0.00	MG/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.233	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.286	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.054	0.00	MG/L				TRUE	TRUE	E

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COR0001SS142280	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0496	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	BARIUM	T-M	SW6010	1.6	0.00	MG/L				TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.007	0.00	MG/L	J	J		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.0017	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0048	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00174	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0521	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	LEAD	T-M	SW6010	0.0068	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.217	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.302	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.222	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00438	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0537	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142280	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142280	16-Aug-01	108138	ZINC	T-M	SW6010	1.4	0.00	MG/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	AC-227	T-RAD	714R5	0.34	0.31	PCI/L		J		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	AC-228	T-RAD	713R6	11	32.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	AM-241	T-RAD	713R6	-6	10.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CO-60	T-RAD	713R6	-1.6	8.90	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CS-137	T-RAD	713R6	-4.7	9.70	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	K-40	T-RAD	713R6	-70	120.00	PCI/L	U	U		TRUE	TRUE	E

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COR0001SS142060	16-Aug-01	108138	PA-231	T-RAD	713R6	50	200.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	PA-234M	T-RAD	713R6	-400	1300.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	RA-226	T-RAD	783R2	0.65	0.28	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	RA-228	T-RAD	724R6	0.76	0.24	PCI/L				TRUE	TRUE	WATER
COR0001SS142060	16-Aug-01	108138	TH-228	T-RAD	714R5	-0.05	0.17	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	TH-229	T-RAD	714R5	7.84	2.10	PCI/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	TH-230	T-RAD	714R5	0.093	0.08	PCI/L		J		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	TH-232	T-RAD	714R5	0.012	0.04	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	TH-234	T-RAD	713R6	-48	71.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	U-232	T-RAD	714R5	44.1	10.00	PCI/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	U-234	T-RAD	714R5	0.44	0.42	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	U-235	T-RAD	713R6	-32	38.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	U-235	T-RAD	714R5	0.06	0.19	PCI/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	U-238	T-RAD	714R5	0.79	0.57	PCI/L	LT			TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108137	AC-227	RAD	714R5	0.18	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	AC-228	RAD	713R6	1.25	0.41	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	AM-241	RAD	713R6	-0.03	0.15	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	BI-214	RAD	713R6	1.64	0.48	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	CO-60	RAD	713R6	-0.02	0.10	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	CS-137	RAD	713R6	0.07	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	K-40	RAD	713R6	12.6	3.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	PA-231	RAD	713R6	-0.9	3.00	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	PA-234M	RAD	713R6	-2	17.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	PB-212	RAD	713R6	1.52	0.37	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	PB-214	RAD	713R6	1.63	0.39	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	RA-226	RAD	783R3	1.71	0.33	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	TH-228	RAD	714R5	1.19	0.21	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	TH-229	RAD	714R5	2.14	0.62	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	TH-230	RAD	714R5	5.74	0.78	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	TH-232	RAD	714R5	1.27	0.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	TH-234	RAD	713R6	1.67	0.87	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	TL-208	RAD	713R6	0.43	0.16	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	TOTACTIV	RAD	704R5	16.1	4.50	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	U-232	RAD	714R5	3.23	0.66	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	U-234	RAD	714R5	1.75	0.30	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	U-235	RAD	713R6	0.03	0.45	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	U-235	RAD	714R5	0.194	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108137	U-238	RAD	714R5	1.67	0.29	PCI/G				TRUE	TRUE	SOIL
COR0001SS142060	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.09	0.00	MG/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.5	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.391	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.246	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0001SS142060	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	ACID	T-HER	SW8151	0.0188	0.00	MG/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.235	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.166	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.295	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.305	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.068	0.00	MG/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.083	0.00	MG/L	J		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.68	0.00	MG/L	E	E	TO USE RR1	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.73	0.00	MG/L			USING THIS RESULT	TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0476	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	BARIUM	T-M	SW6010	19	0.00	MG/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00337	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0488	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	LEAD	T-M	SW6010	0.038	0.00	MG/L				TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.193	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0001SS142060	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.5	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.378	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.355	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.1	0.00	MG/L	U		USING REG	TRUE	FALSE	E
COR0001SS142060	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.248	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.169	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.0046	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.049	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS142060	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS142060	16-Aug-01	108138	ZINC	T-M	SW6010	1.8	0.00	MG/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	AC-227	T-RAD	714R5	0.38	0.28	PCI/L		J		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	AC-228	T-RAD	713R6	15	34.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	AM-241	T-RAD	713R6	9.8	9.30	PCI/L	TI			TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CO-60	T-RAD	713R6	0	9.80	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CS-137	T-RAD	713R6	-5.2	9.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	K-40	T-RAD	713R6	-10	160.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	PA-231	T-RAD	713R6	0	210.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	PA-234M	T-RAD	713R6	700	1700.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	RA-226	T-RAD	783R2	3.84	0.56	PCI/L	Y	J		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	RA-228	T-RAD	724R6	1.22	0.27	PCI/L				TRUE	TRUE	WATER
COR0001SS140900	16-Aug-01	108138	TH-228	T-RAD	714R5	-0.04	0.15	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	TH-229	T-RAD	714R5	10.1	2.00	PCI/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	TH-230	T-RAD	714R5	0.211	0.09	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	TH-232	T-RAD	714R5	0.029	0.03	PCI/L	LT			TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	TH-234	T-RAD	713R6	-8	94.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	U-232	T-RAD	714R5	44.6	10.00	PCI/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	U-234	T-RAD	714R5	4.8	1.40	PCI/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	U-235	T-RAD	713R6	19	34.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	U-235	T-RAD	714R5	0.69	0.49	PCI/L	LT			TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	U-238	T-RAD	714R5	4.5	1.40	PCI/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108137	AC-227	RAD	714R5	0.37	0.13	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	AC-228	RAD	713R6	0.43	0.46	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	AM-241	RAD	713R6	-0.07	0.14	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	BI-214	RAD	713R6	0.75	0.35	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	CO-60	RAD	713R6	0.02	0.12	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	CS-137	RAD	713R6	0.12	0.11	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	K-40	RAD	713R6	11.2	3.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	PA-231	RAD	713R6	-0.7	2.90	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	PA-234M	RAD	713R6	9	22.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	PB-212	RAD	713R6	0.44	0.23	PCI/G				TRUE	TRUE	SOIL

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COR0001SS140900	16-Aug-01	108137	PB-214	RAD	713R6	1.07	0.33	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	RA-226	RAD	783R3	0.7	0.19	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	TH-228	RAD	714R5	0.38	0.10	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	TH-229	RAD	714R5	2.38	0.61	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	TH-230	RAD	714R5	8.8	1.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	TH-232	RAD	714R5	0.47	0.09	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	TH-234	RAD	713R6	0.6	1.10	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	TOTACTIV	RAD	704R5	24.2	5.90	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	U-232	RAD	714R5	2.96	0.68	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	U-234	RAD	714R5	1.25	0.24	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	U-235	RAD	713R6	-0.33	0.51	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	U-235	RAD	714R5	0.024	0.03	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108137	U-238	RAD	714R5	1.29	0.25	PCI/G				TRUE	TRUE	SOIL
COR0001SS140900	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.439	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	ACID	T-HER	SW8151	0.0168	0.00	MG/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.027	0.00	MG/L	J	J		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.174	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.297	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.012	0.00	MG/L	J	J		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0493	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	BARIUM	T-M	SW6010	1.5	0.00	MG/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00162	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0481	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0001SS140900	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	LEAD	T-M	SW6010	0.75	0.00	MG/L				TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.207	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.297	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.145	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00439	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0496	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140900	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140900	16-Aug-01	108138	ZINC	T-M	SW6010	1.3	0.00	MG/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	112048	PH	OTHER	SW9045C	7.4	0.00	PH		J		TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108138	AC-227	T-RAD	714R5	0.48	0.25	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	AC-228	T-RAD	713R6	19	34.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	AM-241	T-RAD	713R6	-5	11.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CO-60	T-RAD	713R6	-6.3	8.70	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CS-137	T-RAD	713R6	-10.6	8.80	PCI/L	U	UJ		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	K-40	T-RAD	713R6	-60	130.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	PA-231	T-RAD	713R6	-20	220.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	PA-234M	T-RAD	713R6	-600	1200.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	RA-226	T-RAD	783R2	20.7	2.20	PCI/L	Y	J		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	RA-228	T-RAD	724R6	1.17	0.27	PCI/L				TRUE	TRUE	WATER
COR0001SS140140	16-Aug-01	108138	TH-228	T-RAD	714R5	0.02	0.11	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	TH-229	T-RAD	714R5	9.75	2.00	PCI/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	TH-230	T-RAD	714R5	0.81	0.19	PCI/L	LT			TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	TH-232	T-RAD	714R5	0.031	0.03	PCI/L	LT			TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	TH-234	T-RAD	713R6	-15	71.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	U-232	T-RAD	714R5	45.9	10.00	PCI/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	U-234	T-RAD	714R5	14.9	3.00	PCI/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	U-235	T-RAD	713R6	-15	38.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	U-235	T-RAD	714R5	0.74	0.52	PCI/L	LT			TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	U-238	T-RAD	714R5	16.1	3.20	PCI/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108137	AC-227	RAD	714R5	3.08	0.51	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	AC-228	RAD	713R6	0.6	0.28	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	AM-241	RAD	713R6	0.19	0.19	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	BI-214	RAD	713R6	4.64	0.88	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	CO-60	RAD	713R6	-0.01	0.09	PCI/G	U			TRUE	TRUE	SOIL

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COR0001SS140140	16-Aug-01	108137	CS-137	RAD	713R6	0.12	0.10	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	K-40	RAD	713R6	12.4	3.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	PA-231	RAD	713R6	3.3	2.70	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	PA-234M	RAD	713R6	13	16.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	PB-212	RAD	713R6	0.9	0.24	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	PB-214	RAD	713R6	6.1	1.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	RA-226	RAD	783R3	10	1.20	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TH-227	RAD	713R6	3.46	0.96	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TH-228	RAD	714R5	0.86	0.17	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TH-229	RAD	714R5	2.45	0.63	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TH-230	RAD	714R5	69.4	9.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TH-232	RAD	714R5	1.02	0.18	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TH-234	RAD	713R6	3.2	1.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TL-208	RAD	713R6	0.27	0.13	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	TOTACTIV	RAD	704R5	109	12.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	U-232	RAD	714R5	3.3	0.65	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	U-234	RAD	714R5	4.4	0.65	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	U-235	RAD	714R5	0.264	0.08	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	U-235	RAD	713R6	1.5	0.77	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108137	U-238	RAD	714R5	4.17	0.62	PCI/G				TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.359	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	ACID	T-HER	SW8151	0.02	0.00	MG/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.242	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.324	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0528	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	BARIUM	T-M	SW6010	0.94	0.00	MG/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.0025	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00477	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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COR0001SS140140	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0496	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	LEAD	T-M	SW6010	0.012	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.222	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.294	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.27	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.0046	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0547	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS140140	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS140140	16-Aug-01	108138	ZINC	T-M	SW6010	1.3	0.00	MG/L				TRUE	TRUE	E
COR0001SS140140	16-Aug-01	112048	CYANIDE, TOTAL	OTHER	SW9010	5.8	0.00	MG/KG	N	J		TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	112048	REACTIVE CYANIDE	OTHER	1	0.1	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
COR0001SS140140	16-Aug-01	112048	REACTIVE SULFIDE	OTHER	2	50	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108138	AC-227	T-RAD	714R5	0.41	0.27	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	AC-228	T-RAD	713R6	-6	36.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	AM-241	T-RAD	713R6	0.7	9.10	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	CO-60	T-RAD	713R6	1	10.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	CS-137	T-RAD	713R6	0	8.20	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	K-40	T-RAD	713R6	0	160.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	PA-231	T-RAD	713R6	90	200.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	PA-234M	T-RAD	713R6	-600	1400.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	RA-226	T-RAD	783R2	16.5	1.80	PCI/L		J		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	RA-228	T-RAD	724R6	1.48	0.26	PCI/L				TRUE	TRUE	WATER
COR0001SS122160	16-Aug-01	108138	TH-228	T-RAD	714R5	0.16	0.13	PCI/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	TH-229	T-RAD	714R5	10	2.00	PCI/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	TH-230	T-RAD	714R5	0.34	0.11	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	TH-232	T-RAD	714R5	0.022	0.03	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	TH-234	T-RAD	713R6	34	83.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	U-232	T-RAD	714R5	45.4	10.00	PCI/L				TRUE	TRUE	E

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COR0001SS122160	16-Aug-01	108138	U-234	T-RAD	714R5	29.1	5.10	PCI/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	U-235	T-RAD	713R6	-11	36.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	U-235	T-RAD	714R5	1.92	0.87	PCI/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	U-238	T-RAD	714R5	28.2	5.00	PCI/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108137	AC-227	RAD	714R5	0.076	0.06	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	AC-228	RAD	713R6	0.45	0.22	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	AM-241	RAD	713R6	-0.035	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	BI-214	RAD	713R6	0.21	0.14	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	CO-60	RAD	713R6	0.041	0.05	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	CS-137	RAD	713R6	0.062	0.06	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	K-40	RAD	713R6	7.6	2.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	PA-231	RAD	713R6	-0.7	1.40	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	PA-234M	RAD	713R6	1.8	6.80	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	PB-212	RAD	713R6	0.24	0.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	PB-214	RAD	713R6	0.25	0.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	RA-226	RAD	783R3	0.35	0.17	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	TH-228	RAD	714R5	0.359	0.08	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	TH-229	RAD	714R5	2.66	0.61	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	TH-230	RAD	714R5	0.75	0.13	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	TH-232	RAD	714R5	0.289	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	TH-234	RAD	713R6	0.53	0.44	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	TL-208	RAD	713R6	0.09	0.05	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	TOTACTIV	RAD	704R5	2.7	3.70	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	U-232	RAD	714R5	3.1	0.66	PCI/G				TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	U-234	RAD	714R5	0.43	0.11	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	U-235	RAD	713R6	0.05	0.24	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	U-235	RAD	714R5	0.037	0.03	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108137	U-238	RAD	714R5	0.346	0.10	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS122160	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.019	0.00	MG/L	J	J		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.408	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	ACID	T-HER	SW8151	0.0162	0.00	MG/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.229	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.283	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.014	0.00	MG/L	J	J		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.14	0.00	MG/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0527	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.013	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	BARIUM	T-M	SW6010	4.7	0.00	MG/L				TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.0088	0.00	MG/L	J	J		TRUE	TRUE	E

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COR0001SS122160	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00457	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0493	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	LEAD	T-M	SW6010	0.0075	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.214	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.311	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.257	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00436	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0564	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS122160	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS122160	16-Aug-01	108138	ZINC	T-M	SW6010	2.4	0.00	MG/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	AC-227	T-RAD	714R5	0.54	0.28	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	AC-227	T-RAD	714R6	0.04	0.13	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Ac-227		714R6	0.04	0.13	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	AC-228	T-RAD	713R6	28	39.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	AC-228	T-RAD	713R6	-1	32.00	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Ac-228		713R6	-1	32.00	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	AM-241	T-RAD	713R6	-5.3	8.60	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	AM-241	T-RAD	713R6	0.6	9.80	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Am-241		713R6	0.6	9.80	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	CO-60	T-RAD	713R6	2	12.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	CO-60	T-RAD	713R6	0	8.30	PCI/L	U			TRUE	TRUE	E

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COR0001SS120780	16-Aug-01	111157	Co-60		713R6	0	8.30	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	CS-137	T-RAD	713R6	-3.2	7.70	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	CS-137	T-RAD	713R6	1.7	7.60	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Cs-137		713R6	1.7	7.60	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	K-40	T-RAD	713R6	70	170.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	K-40	T-RAD	713R6	10	110.00	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	PA-231	T-RAD	713R6	70	240.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	PA-231	T-RAD	713R6	-10	190.00	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Pa-231		713R6	-10	190.00	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	PA-234M	T-RAD	713R6	0	1400.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	PA-234M	T-RAD	713R6	1200	1300.00	PCI/L	TI			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Pa-234m		713R6	1200	1300.00	PCI/L	TI			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	RA-226	T-RAD	783R2	3.75	0.59	PCI/L	Y	J		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	RA-226	T-RAD	713R6	190	170.00	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	RA-226	T-RAD	783R3	1.64	0.54	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Ra-226		713R6	190	170.00	PCI/L				TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	111157	Ra-226		783R3	1.64	0.54	PCI/L				TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	RA-228	T-RAD	724R6	1.74	0.29	PCI/L				TRUE	TRUE	WATER
COR0001SS120780	16-Aug-01	111157	Ra-228		724R6	-0.11	0.82	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	TH-228	T-RAD	714R5	0.02	0.13	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	TH-228	T-RAD	714R6	0.06	0.11	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Th-228		714R6	0.06	0.11	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	TH-229	T-RAD	714R5	9.9	2.00	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	TH-229	T-RAD	714R6	5.35	1.20	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Th-229		714R6	5.35	1.20	PCI/L				TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	TH-230	T-RAD	714R5	0.169	0.09	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	TH-230	T-RAD	714R6	0.6	0.14	PCI/L	LT			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Th-230		714R6	0.6	0.14	PCI/L	LT			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	TH-232	T-RAD	714R5	-0.023	0.05	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	TH-232	T-RAD	714R6	0.011	0.02	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Th-232		714R6	0.011	0.02	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	TH-234	T-RAD	713R6	-25	67.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	TH-234	T-RAD	713R6	-15	80.00	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	Th-234		713R6	-15	80.00	PCI/L	U			TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	111157	TotActiv		704R5	191	25.00	PCI/L				TRUE	TRUE	LIQUID
COR0001SS120780	16-Aug-01	108138	U-232	T-RAD	714R5	44.2	11.00	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	U-232	T-RAD	714R6	16.2	6.10	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	U-234	T-RAD	714R5	2.5	1.10	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	U-234	T-RAD	714R6	73	12.00	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	U-235	T-RAD	713R6	-5	34.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	U-235	T-RAD	714R5	0.32	0.38	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	U-235	T-RAD	713R6	9	34.00	PCI/L	U			TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	U-235	T-RAD	714R6	3.3	1.10	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	U-238	T-RAD	714R5	3	1.20	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	111157	U-238	T-RAD	714R6	68	11.00	PCI/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108137	AC-227	RAD	714R5	2.86	0.51	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	AC-228	RAD	713R6	0.44	0.30	PCI/G				TRUE	TRUE	SOIL

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COR0001SS120780	16-Aug-01	108137	AM-241	RAD	713R6	0.46	0.58	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	BI-214	RAD	713R6	2.85	0.82	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	CO-60	RAD	713R6	-0.055	0.07	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	CS-137	RAD	713R6	-0.017	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	K-40	RAD	713R6	12.8	2.80	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	PA-231	RAD	713R6	10.1	3.30	PCI/G	TI	J		TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	PA-234M	RAD	713R6	21	15.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	PB-212	RAD	713R6	0.91	0.23	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	PB-214	RAD	713R6	5.01	0.88	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	RA-226	RAD	783R3	4.26	0.62	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TH-227	RAD	713R6	3.86	0.96	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TH-228	RAD	714R5	0.82	0.17	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TH-229	RAD	714R5	1.87	0.65	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TH-230	RAD	714R5	73	9.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TH-232	RAD	714R5	0.79	0.15	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TH-234	RAD	713R6	20.7	4.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TL-208	RAD	713R6	0.2	0.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	TOTACTIV	RAD	704R5	153	16.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	U-232	RAD	714R5	12.8	2.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	U-234	RAD	714R5	15.5	2.40	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	U-235	RAD	714R5	0.69	0.27	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	U-235	RAD	713R6	2.03	0.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108137	U-238	RAD	714R5	16.7	2.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS120780	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.372	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	ACID	T-HER	SW8151	0.0191	0.00	MG/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.215	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.293	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0458	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	BARIUM	T-M	SW6010	1.3	0.00	MG/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0001SS120780	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00308	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0449	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	LEAD	T-M	SW6010	0.18	0.00	MG/L				TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.134	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.3	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.226	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00445	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0465	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120780	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120780	16-Aug-01	108138	ZINC	T-M	SW6010	1.8	0.00	MG/L				TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	AC-227	T-RAD	714R5	0.35	0.28	PCI/L		J		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	AC-228	T-RAD	713R6	16	32.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	AM-241	T-RAD	713R6	11.4	9.40	PCI/L	TI			TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	CO-60	T-RAD	713R6	-2.2	9.30	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	CS-137	T-RAD	713R6	-0.6	8.90	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	K-40	T-RAD	713R6	-140	130.00	PCI/L	U	J		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	PA-231	T-RAD	713R6	80	200.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	PA-234M	T-RAD	713R6	-1300	1400.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	RA-226	T-RAD	783R2	8.2	1.00	PCI/L		J		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	RA-228	T-RAD	724R6	0.84	0.27	PCI/L				TRUE	TRUE	WATER
COR0001SS120680	16-Aug-01	108138	TH-228	T-RAD	714R5	-0.08	0.16	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	TH-229	T-RAD	714R5	9.79	2.00	PCI/L				TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	TH-230	T-RAD	714R5	0.4	0.14	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	TH-232	T-RAD	714R5	0.043	0.04	PCI/L	LT			TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	TH-234	T-RAD	713R6	-4	83.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	U-232	T-RAD	714R5	44.4	10.00	PCI/L				TRUE	TRUE	E

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COR0001SS120680	16-Aug-01	108138	U-234	T-RAD	714R5	17.6	3.40	PCI/L				TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	U-235	T-RAD	713R6	11	36.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	U-235	T-RAD	714R5	0.7	0.51	PCI/L	LT			TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	U-238	T-RAD	714R5	17.6	3.40	PCI/L				TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108137	AC-227	RAD	714R5	0.98	0.22	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	AC-228	RAD	713R6	1.9	1.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	AM-241	RAD	713R6	-0.52	0.39	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	CO-60	RAD	713R6	0.32	0.56	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	CS-137	RAD	713R6	-0.15	0.43	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	K-40	RAD	713R6	5.3	7.10	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	PA-231	RAD	713R6	0	11.00	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	PA-234M	RAD	713R6	31	81.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	PB-214	RAD	713R6	1.98	0.86	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	RA-226	RAD	783R3	4.49	0.67	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	TH-228	RAD	714R5	0.5	0.12	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	TH-229	RAD	714R5	2.2	0.62	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	TH-230	RAD	714R5	20.9	2.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	TH-232	RAD	714R5	0.59	0.12	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	TH-234	RAD	713R6	9.6	4.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	TOTACTIV	RAD	704R5	50.6	7.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	U-232	RAD	714R5	2.94	0.67	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	U-234	RAD	714R5	3.16	0.50	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	U-235	RAD	713R6	0.9	1.40	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	U-235	RAD	714R5	0.173	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108137	U-238	RAD	714R5	3.04	0.49	PCI/G				TRUE	TRUE	SOIL
COR0001SS120680	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.356	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	ACID	T-HER	SW8151	0.0171	0.00	MG/L				TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.228	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.307	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0526	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	BARIUM	T-M	SW6010	1.3	0.00	MG/L				TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0001SS120680	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.017	0.00	MG/L	J	J		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00268	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0501	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	LEAD	T-M	SW6010	0.32	0.00	MG/L				TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.167	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.313	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	SILVER	T-M	SW6010	0.0023	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.169	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00447	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0548	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS120680	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS120680	16-Aug-01	108138	ZINC	T-M	SW6010	1.6	0.00	MG/L				TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	AC-227	T-RAD	714R5	0.47	0.31	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	AC-228	T-RAD	713R6	8	32.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	AM-241	T-RAD	713R6	-13.5	9.80	PCI/L	U	UJ		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CO-60	T-RAD	713R6	0.8	8.80	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CS-137	T-RAD	713R6	0.7	7.30	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	K-40	T-RAD	713R6	-40	120.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	PA-231	T-RAD	713R6	-110	220.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	PA-234M	T-RAD	713R6	200	1100.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	RA-226	T-RAD	783R2	1.13	0.27	PCI/L	Y	J		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	RA-228	T-RAD	724R6	1.19	0.31	PCI/L				TRUE	TRUE	WATER
COR0001SS060960	16-Aug-01	108138	TH-228	T-RAD	714R5	0.1	0.14	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	TH-229	T-RAD	714R5	9.96	2.00	PCI/L				TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	TH-230	T-RAD	714R5	0.22	0.10	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	TH-232	T-RAD	714R5	0.029	0.04	PCI/L				TRUE	TRUE	E

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COR0001SS060960	16-Aug-01	108138	TH-234	T-RAD	713R6	-45	69.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	U-232	T-RAD	714R5	45.9	10.00	PCI/L				TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	U-234	T-RAD	714R5	1.27	0.70	PCI/L		J		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	U-235	T-RAD	713R6	18	34.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	U-235	T-RAD	714R5	0.06	0.19	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	U-238	T-RAD	714R5	0.8	0.56	PCI/L	LT			TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108137	AC-227	RAD	714R5	1.6	0.30	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	AC-228	RAD	713R6	1.09	0.58	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	AM-241	RAD	713R6	-0.35	0.55	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	BI-214	RAD	713R6	2.3	0.55	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	CO-60	RAD	713R6	0	0.14	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	CS-137	RAD	713R6	0.1	0.12	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	K-40	RAD	713R6	12.2	3.40	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	PA-231	RAD	713R6	2.7	3.80	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	PA-234M	RAD	713R6	18	21.00	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	PB-212	RAD	713R6	1	0.30	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	PB-214	RAD	713R6	2.46	0.51	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	RA-226	RAD	783R3	2.88	0.58	PCI/G	Y1	J		TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TH-227	RAD	713R6	0.93	0.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TH-228	RAD	714R5	0.69	0.13	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TH-229	RAD	714R5	2.28	0.62	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TH-230	RAD	714R5	38.8	5.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TH-232	RAD	714R5	0.86	0.15	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TH-234	RAD	713R6	2.5	1.90	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TL-208	RAD	713R6	0.2	0.13	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	TOTACTIV	RAD	704R5	61.5	7.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	U-232	RAD	714R5	3.51	0.65	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	U-234	RAD	714R5	3.59	0.54	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	U-235	RAD	713R6	0.78	0.67	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	U-235	RAD	714R5	0.184	0.06	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108137	U-238	RAD	714R5	3.54	0.54	PCI/G				TRUE	TRUE	SOIL
COR0001SS060960	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.359	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	ACID	T-HER	SW8151	0.017	0.00	MG/L				TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.289	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0487	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0001SS060960	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	BARIUM	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.0042	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0462	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	LEAD	T-M	SW6010	0.24	0.00	MG/L				TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.205	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.259	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.222	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00459	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0512	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060960	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060960	16-Aug-01	108138	ZINC	T-M	SW6010	5.1	0.00	MG/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	112048	PH	OTHER	SW9045C	7.7	0.00	PH		J		TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108138	AC-227	T-RAD	714R5	0.89	0.39	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	AC-228	T-RAD	713R6	0	33.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	AM-241	T-RAD	713R6	-7	11.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CO-60	T-RAD	713R6	0.8	7.60	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CS-137	T-RAD	713R6	2.5	8.10	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	K-40	T-RAD	713R6	-70	120.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	PA-231	T-RAD	713R6	40	210.00	PCI/L	U	U		TRUE	TRUE	E

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COR0001SS060240	16-Aug-01	108138	PA-234M	T-RAD	713R6	-300	1300.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	PB-214	T-RAD	713R6	23	16.00	PCI/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	RA-226	T-RAD	783R2	34.6	3.60	PCI/L	Y	J		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	RA-228	T-RAD	724R6	1.3	0.25	PCI/L				TRUE	TRUE	WATER
COR0001SS060240	16-Aug-01	108138	TH-228	T-RAD	714R5	-0.02	0.11	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	TH-229	T-RAD	714R5	9.29	2.00	PCI/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	TH-230	T-RAD	714R5	0.87	0.20	PCI/L	LT			TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	TH-232	T-RAD	714R5	0.026	0.04	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	TH-234	T-RAD	713R6	35	93.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	U-232	T-RAD	714R5	31.3	12.00	PCI/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	U-234	T-RAD	714R5	95	16.00	PCI/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	U-235	T-RAD	713R6	25	40.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	U-235	T-RAD	714R5	3.5	1.60	PCI/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	U-238	T-RAD	714R5	88	15.00	PCI/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108137	AC-227	RAD	714R5	14	1.90	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	AC-228	RAD	713R6	1.68	0.55	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	AM-241	RAD	713R6	0.31	0.29	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	BI-214	RAD	713R6	10.6	2.50	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	CO-60	RAD	713R6	0.02	0.12	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	CS-137	RAD	713R6	0.07	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	K-40	RAD	713R6	16.2	3.90	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	PA-231	RAD	713R6	22.3	5.20	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	PA-234M	RAD	713R6	55	30.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	PB-212	RAD	713R6	1.06	0.32	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	PB-214	RAD	713R6	14.3	2.50	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	RA-226	RAD	783R3	20.3	2.20	PCI/G	Y1	J		TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TH-227	RAD	713R6	15.6	3.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TH-228	RAD	714R5	0.98	0.17	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TH-229	RAD	714R5	2.09	0.63	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TH-230	RAD	714R5	378	49.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TH-232	RAD	714R5	1.42	0.23	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TH-234	RAD	713R6	32.4	6.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TL-208	RAD	713R6	0.32	0.14	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	TOTACTIV	RAD	704R5	539	55.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	U-232	RAD	714R5	60.9	14.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	U-234	RAD	714R5	31.4	5.90	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	U-235	RAD	714R5	2.9	1.30	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	U-235	RAD	713R6	10.6	2.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108137	U-238	RAD	714R5	37.2	6.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.333	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	ACID	T-HER	SW8151	0.0193	0.00	MG/L				TRUE	TRUE	E

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COR0001SS060240	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.24	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.316	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0506	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	BARIUM	T-M	SW6010	1	0.00	MG/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.05	0.00	MG/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	COPPER	T-M	SW6010	0.17	0.00	MG/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00488	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0499	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	LEAD	T-M	SW6010	0.035	0.00	MG/L				TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.218	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.284	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.231	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00456	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0539	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060240	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060240	16-Aug-01	108138	ZINC	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E

SAMPLE_NO	COLL_DATE	Lab SDG	PARAMETER	FRACTION	METHOD	LAB_RESULT	UNCERTNTY	UNITS	LAB_ QUAL	SAIC DATA_ QUAL	COMMENTS	VALIDATED	OK_TO_USE in Reports	MATRIX
COR0001SS060240	16-Aug-01	112048	CYANIDE, TOTAL	OTHER	SW9010	1.3	0.00	MG/KG		J		TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	112048	REACTIVE CYANIDE	OTHER	1	0.1	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
COR0001SS060240	16-Aug-01	112048	REACTIVE SULFIDE	OTHER	2	50	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108138	AC-227	T-RAD	714R5	0.87	0.45	PCI/L	LT	J		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	AC-228	T-RAD	713R6	10	34.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	AM-241	T-RAD	713R6	2.6	8.90	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CO-60	T-RAD	713R6	4	13.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CS-137	T-RAD	713R6	0.6	9.10	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	K-40	T-RAD	713R6	40	160.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	PA-231	T-RAD	713R6	-100	210.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	PA-234M	T-RAD	713R6	0	1500.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	RA-226	T-RAD	783R2	18.4	2.00	PCI/L	Y	J		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	RA-228	T-RAD	724R6	0.98	0.26	PCI/L	LT			TRUE	TRUE	WATER
COR0001SS060180	16-Aug-01	108138	TH-228	T-RAD	714R5	0.06	0.18	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	TH-229	T-RAD	714R5	8.82	2.00	PCI/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	TH-230	T-RAD	714R5	0.48	0.15	PCI/L	LT			TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	TH-232	T-RAD	714R5	0.026	0.06	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	TH-234	T-RAD	713R6	7	75.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	U-232	T-RAD	714R5	39.3	10.00	PCI/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	U-234	T-RAD	714R5	60.9	9.70	PCI/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	U-235	T-RAD	713R6	-18	35.00	PCI/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	U-235	T-RAD	714R5	3.3	1.20	PCI/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	U-238	T-RAD	714R5	67	11.00	PCI/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108137	AC-227	RAD	714R5	4.63	0.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	AC-228	RAD	713R6	0.7	0.25	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	AM-241	RAD	713R6	0.26	0.23	PCI/G	TI			TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	BI-214	RAD	713R6	5.5	1.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	CO-60	RAD	713R6	0.023	0.09	PCI/G	U			TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	CS-137	RAD	713R6	-0.05	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	K-40	RAD	713R6	14	3.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	PA-231	RAD	713R6	5.3	2.50	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	PA-234M	RAD	713R6	2	14.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	PB-212	RAD	713R6	0.85	0.25	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	PB-214	RAD	713R6	6.8	1.20	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	RA-226	RAD	783R3	10.9	1.30	PCI/G		J		TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TH-227	RAD	713R6	4.1	1.10	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TH-228	RAD	714R5	1.09	0.19	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TH-229	RAD	714R5	1.95	0.63	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TH-230	RAD	714R5	136	18.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TH-232	RAD	714R5	0.97	0.17	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TH-234	RAD	713R6	8.5	2.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TL-208	RAD	713R6	0.26	0.11	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	TOTACTIV	RAD	704R5	205	21.00	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	U-232	RAD	714R5	13.1	2.70	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	U-234	RAD	714R5	11	1.80	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	U-235	RAD	714R5	0.64	0.26	PCI/G	LT			TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108137	U-235	RAD	713R6	2.57	0.81	PCI/G				TRUE	TRUE	SOIL

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COR0001SS060180	16-Aug-01	108137	U-238	RAD	714R5	9.7	1.60	PCI/G				TRUE	TRUE	SOIL
COR0001SS060180	16-Aug-01	108138	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.357	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	ACID	T-HER	SW8151	0.0198	0.00	MG/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	2-FLUOROBIPHENYL	T-OS	SW8270	0.233	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	2-FLUOROPHENOL	T-OS	SW8270	0.309	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0507	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	BARIUM	T-M	SW6010	0.81	0.00	MG/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CADMIUM	T-M	SW6010	0.033	0.00	MG/L				TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	COPPER	T-M	SW6010	0.033	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	DECACHLOROBIPHENYL	T-PES	SW8081	0.00462	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0544	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	LEAD	T-M	SW6010	0.0098	0.00	MG/L	B	B		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	NITROBENZENE-D5	T-OS	SW8270	0.215	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	PHENOL-D5	T-OS	SW8270	0.274	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E

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COR0001SS060180	16-Aug-01	108138	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	TERPHENYL-D14	T-OS	SW8270	0.23	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00441	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	TOLUENE-D8	T-OV	SW8260	0.0554	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
COR0001SS060180	16-Aug-01	108138	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
COR0001SS060180	16-Aug-01	108138	ZINC	T-M	SW6010	1.3	0.00	MG/L				TRUE	TRUE	E
COR0000SS120901	14-Aug-01	108128	1,1,1,2-TETRACHLOROETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1,1,2-TETRACHLOROETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1,1-TRICHLOROETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1,1-TRICHLOROETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1,2,2-TETRACHLOROETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1,2,2-TETRACHLOROETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1,2-TRICHLOROETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1,2-TRICHLOROETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1-DICHLOROETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1-DICHLOROETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1-DICHLOROETHENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1-DICHLOROETHENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1-DICHLOROPROPENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,1-DICHLOROPROPENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,3-TRICHLOROBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,3-TRICHLOROBENZENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,3-TRICHLOROPROPANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,3-TRICHLOROPROPANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,4-TRICHLOROBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,4-TRICHLOROBENZENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,4-TRICHLOROBENZENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,4-TRICHLOROBENZENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,4-TRIMETHYLBENZENE	OV	SW8260	43	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2,4-TRIMETHYLBENZENE	OV	SW8260	320	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROPROPANE	OV	SW8260	16	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROPROPANE	OV	SW8260	20	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DIBROMOETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DIBROMOETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROBENZENE	OV	SW8260	8	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROBENZENE	OV	SW8260	65	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROBENZENE	OS	SW8270	660	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROBENZENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROPROPANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,2-DICHLOROPROPANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,3,5-TRIMETHYLBENZENE	OV	SW8260	16	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,3,5-TRIMETHYLBENZENE	OV	SW8260	130	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL

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COR0000SS120901	14-Aug-01	108128	1,3-DICHLOROBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,3-DICHLOROBENZENE	OV	SW8260	2.3	0.00	UG/KG	J	J	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,3-DICHLOROBENZENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,3-DICHLOROBENZENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,3-DICHLOROPROPANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,3-DICHLOROPROPANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,4-DICHLOROBENZENE	OV	SW8260	2.4	0.00	UG/KG	J	J	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1,4-DICHLOROBENZENE	OV	SW8260	21	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,4-DICHLOROBENZENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	1,4-DICHLOROBENZENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1-CHLOROHEXANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	1-CHLOROHEXANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,2-DICHLOROPROPANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,2-DICHLOROPROPANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,3,4,6-TETRACHLOROPHENOL	OS	SW8270	25000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,3,4,6-TETRACHLOROPHENOL	OS	SW8270	62000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4,5-TRICHLOROPHENOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4,5-TRICHLOROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4,6-TRIBROMOPHENOL	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4,6-TRIBROMOPHENOL	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4,6-TRICHLOROPHENOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4,6-TRICHLOROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DICHLOROPHENOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DICHLOROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DIMETHYLPHENOL	OS	SW8270	5000	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DIMETHYLPHENOL	OS	SW8270	4400	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DINITROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DINITROPHENOL	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DINITROTOLUENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,4-DINITROTOLUENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2,6-DINITROTOLUENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2,6-DINITROTOLUENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-BUTANONE	OV	SW8260	150	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-BUTANONE	OV	SW8260	180	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-CHLORONAPHTHALENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-CHLORONAPHTHALENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-CHLOROPHENOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-CHLOROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-CHLOROTOLUENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-CHLOROTOLUENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-FLUOROBIPHENYL	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-FLUOROBIPHENYL	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-FLUOROPHENOL	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-FLUOROPHENOL	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-HEXANONE	OV	SW8260	32	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-HEXANONE	OV	SW8260	39	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-METHYLNAPHTHALENE	OS	SW8270	1400	0.00	UG/KG	J	J		TRUE	TRUE	SOIL

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COR0000SS120901	14-Aug-01	108128	2-METHYLNAPHTHALENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-METHYLPHENOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-METHYLPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-NITROANILINE	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-NITROANILINE	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	2-NITROPHENOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	2-NITROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	3,3'-DICHLOROBENZIDINE	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	3,3'-DICHLOROBENZIDINE	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	3-NITROANILINE	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	3-NITROANILINE	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4,4'-DDD	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4,4'-DDE	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4,4'-DDT	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4,6-DINITRO-2-METHYLPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4,6-DINITRO-2-METHYLPHENOL	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-BROMOFLUOROBENZENE	OV	SW8260	63.8	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-BROMOFLUOROBENZENE	OV	SW8260	87.2	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHER	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHER	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-CHLORO-3-METHYLPHENOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4-CHLORO-3-METHYLPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-CHLOROANILINE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4-CHLOROANILINE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHER	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHER	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-CHLOROTOLUENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-CHLOROTOLUENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4-METHYL-2-PENTANONE	OV	SW8260	32	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-METHYL-2-PENTANONE	OV	SW8260	39	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4-METHYLPHENOL	OS	SW8270	15000	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4-METHYLPHENOL	OS	SW8270	12000	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-NITROANILINE	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4-NITROANILINE	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	4-NITROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	4-NITROPHENOL	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ACENAPHTHENE	OS	SW8270	1200	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ACENAPHTHENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ACENAPHTHYLENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ACENAPHTHYLENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ACETONE	OV	SW8260	450	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ACETONE	OV	SW8260	660	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ALDRIN	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ALPHA-BHC	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ALPHA-CHLORDANE	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ANILINE	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ANILINE	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL

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COR0000SS120901	14-Aug-01	108128	ANTHRACENE	OS	SW8270	3000	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ANTHRACENE	OS	SW8270	2500	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	AROCLOR-1016	PCB	SW8082	660	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AROCLOR-1221	PCB	SW8082	300	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AROCLOR-1232	PCB	SW8082	150	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AROCLOR-1242	PCB	SW8082	150	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AROCLOR-1248	PCB	SW8082	1200	0.00	UG/KG		J	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AROCLOR-1254	PCB	SW8082	150	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AROCLOR-1260	PCB	SW8082	150	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AZOBENZENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	AZOBENZENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZENE	OV	SW8260	4.6	0.00	UG/KG	J	J	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZENE	OV	SW8260	9.9	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(A)ANTHRACENE	OS	SW8270	4200	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(A)ANTHRACENE	OS	SW8270	3700	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(A)PYRENE	OS	SW8270	3500	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(A)PYRENE	OS	SW8270	3100	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(B)FLUORANTHENE	OS	SW8270	5600	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(B)FLUORANTHENE	OS	SW8270	4800	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(G,H,I)PERYLENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(G,H,I)PERYLENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(K)FLUORANTHENE	OS	SW8270	2000	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZO(K)FLUORANTHENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZOIC ACID	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZOIC ACID	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZYL ALCOHOL	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BENZYL ALCOHOL	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BETA-BHC	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROETHOXY)METHANE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROETHOXY)METHANE	OS	SW8270	5000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BIS(2-CHLOROETHYL)ETHER	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BIS(2-CHLOROETHYL)ETHER	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROISOPROPYL)ETHER	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROISOPROPYL)ETHER	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BIS(2-ETHYLHEXYL)PHTHALATE	OS	SW8270	45000	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BIS(2-ETHYLHEXYL)PHTHALATE	OS	SW8270	32000	0.00	UG/KG			USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOBENZENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOCHLOROMETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOCHLOROMETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMODICHLOROMETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMODICHLOROMETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOFORM	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOFORM	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOMETHANE	OV	SW8260	16	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	BROMOMETHANE	OV	SW8260	20	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BUTYL BENZYL PHTHALATE	OS	SW8270	2200	0.00	UG/KG	J	J		TRUE	TRUE	SOIL

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COR0000SS120901	14-Aug-01	108128	BUTYL BENZYL PHTHALATE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CARBAZOLE	OS	SW8270	1200	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CARBAZOLE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CARBON DISULFIDE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CARBON DISULFIDE	OV	SW8260	23	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CARBON TETRACHLORIDE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CARBON TETRACHLORIDE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROBENZENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROETHANE	OV	SW8260	16	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROETHANE	OV	SW8260	20	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROFORM	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROFORM	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROMETHANE	OV	SW8260	16	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CHLOROMETHANE	OV	SW8260	20	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHRYSENE	OS	SW8270	3800	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHRYSENE	OS	SW8270	3500	0.00	UG/KG	J	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CIS-1,2-DICHLOROETHENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CIS-1,2-DICHLOROETHENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CIS-1,3-DICHLOROPROPENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	CIS-1,3-DICHLOROPROPENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DECACHLOROBIPHENYL	PEST	SW8081	29.3	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DECACHLOROBIPHENYL	PCB	SW8082	21.2	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DECACHLOROBIPHENYL	PCB	SW8082	42.9	0.00	UG/KG	*	*	SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DELTA-BHC	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBENZO(A,H)ANTHRACENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBENZO(A,H)ANTHRACENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBENZOFURAN	OS	SW8270	1000	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBENZOFURAN	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBROMOCHLOROMETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBROMOCHLOROMETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBROMOFLUOROMETHANE	OV	SW8260	27.5	0.00	UG/KG	*	*	SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBROMOFLUOROMETHANE	OV	SW8260	77.4	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBROMOMETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DIBROMOMETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DICHLORODIFLUOROMETHANE	OV	SW8260	16	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DICHLORODIFLUOROMETHANE	OV	SW8260	20	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIELDRIN	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIETHYL PHTHALATE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIETHYL PHTHALATE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DIMETHYL PHTHALATE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DIMETHYL PHTHALATE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DI-N-BUTYL PHTHALATE	OS	SW8270	690	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DI-N-BUTYL PHTHALATE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	DI-N-OCTYL PHTHALATE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	DI-N-OCTYL PHTHALATE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ENDOSULFAN I	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL

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COR0000SS120901	14-Aug-01	108128	ENDOSULFAN II	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ENDOSULFAN SULFATE	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ENDRIN	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ENDRIN ALDEHYDE	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ENDRIN KETONE	PEST	SW8081	5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHYLBENZENE	OV	SW8260	61	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHYLBENZENE	OV	SW8260	390	0.00	UG/KG	E	J	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	FLUORANTHENE	OS	SW8270	9500	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	FLUORANTHENE	OS	SW8270	8900	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	FLUORENE	OS	SW8270	2000	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	FLUORENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	GAMMA-BHC (LINDANE)	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	GAMMA-CHLORDANE	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	HEPTACHLOR	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	HEPTACHLOR EPOXIDE	PEST	SW8081	2.5	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROBENZENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROBENZENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROBUTADIENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROBUTADIENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROBUTADIENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROBUTADIENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	NE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	NE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROETHANE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	HEXACHLOROETHANE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	INDENO(1,2,3-CD)PYRENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	INDENO(1,2,3-CD)PYRENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	IODOMETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	IODOMETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ISOPHORONE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ISOPHORONE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ISOPROPYLBENZENE	OV	SW8260	19	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ISOPROPYLBENZENE	OV	SW8260	120	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	M+P-XYLENE	OV	SW8260	80	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	M+P-XYLENE	OV	SW8260	460	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	METHOXYCHLOR	PEST	SW8081	25	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHER	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	ETHER	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	METHYLENE CHLORIDE	OV	SW8260	4.5	0.00	UG/KG	J	J	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	METHYLENE CHLORIDE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	NAPHTHALENE	OV	SW8260	51	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	NAPHTHALENE	OV	SW8260	98	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	NAPHTHALENE	OS	SW8270	1500	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	NAPHTHALENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	N-BUTYLBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	N-BUTYLBENZENE	OV	SW8260	12	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	NITROBENZENE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL

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COR0000SS120901	14-Aug-01	108128	NITROBENZENE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	NITROBENZENE-D5	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	NITROBENZENE-D5	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	N-NITROSODIMETHYLAMINE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	N-NITROSODIMETHYLAMINE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	N-NITROSO-DI-N-PROPYLAMINE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	N-NITROSO-DI-N-PROPYLAMINE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	N-NITROSODIPHENYLAMINE	OS	SW8270	920	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	N-NITROSODIPHENYLAMINE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	N-PROPYLBENZENE	OV	SW8260	7	0.00	UG/KG	J	J	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	N-PROPYLBENZENE	OV	SW8260	61	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	O-XYLENE	OV	SW8260	34	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	O-XYLENE	OV	SW8260	210	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	PENTACHLOROPHENOL	OS	SW8270	12000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	PENTACHLOROPHENOL	OS	SW8270	31000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	PHENANTHRENE	OS	SW8270	9500	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	PHENANTHRENE	OS	SW8270	8100	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	PHENOL	OS	SW8270	2500	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	PHENOL	OS	SW8270	2000	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	PHENOL-D5	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	PHENOL-D5	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	P-ISOPROPYLTOLUENE	OV	SW8260	10	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	P-ISOPROPYLTOLUENE	OV	SW8260	90	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	PYRENE	OS	SW8270	11000	0.00	UG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	PYRENE	OS	SW8270	6400	0.00	UG/KG	J	J	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	PYRIDINE	OS	SW8270	5000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	PYRIDINE	OS	SW8270	12000	0.00	UG/KG	U	U	USING REG	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	SEC-BUTYLBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	SEC-BUTYLBENZENE	OV	SW8260	15	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	STYRENE	OV	SW8260	15	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	STYRENE	OV	SW8260	40	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TERPHENYL-D14	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TERPHENYL-D14	OS	SW8270	0	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TERT-BUTYLBENZENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TERT-BUTYLBENZENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TETRACHLOROETHENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TETRACHLOROETHENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TETRACHLORO-M-XYLENE	PEST	SW8081	19.3	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TETRACHLORO-M-XYLENE	PCB	SW8082	16.8	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TETRACHLORO-M-XYLENE	PCB	SW8082	25.6	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TOLUENE	OV	SW8260	18	0.00	UG/KG			USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TOLUENE	OV	SW8260	87	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TOLUENE-D8	OV	SW8260	57.8	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TOLUENE-D8	OV	SW8260	63.1	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TOXAPHENE	PEST	SW8081	250	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TRANS-1,2-DICHLOROETHENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TRANS-1,2-DICHLOROETHENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL

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COR0000SS120901	14-Aug-01	108128	TRANS-1,3-DICHLOROPROPENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TRANS-1,3-DICHLOROPROPENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TRICHLOROETHENE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TRICHLOROETHENE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TRICHLOROFLUOROMETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TRICHLOROFLUOROMETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	TRICHLOROTRIFLUOROETHANE	OV	SW8260	7.9	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	TRICHLOROTRIFLUOROETHANE	OV	SW8260	9.8	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	VINYL ACETATE	OV	SW8260	32	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	VINYL ACETATE	OV	SW8260	39	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	VINYL CHLORIDE	OV	SW8260	16	0.00	UG/KG	U	U	USING RR1	TRUE	FALSE	SOIL
COR0000SS120901	14-Aug-01	108128	VINYL CHLORIDE	OV	SW8260	20	0.00	UG/KG	U	U	USING THIS RESULT	TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	AC-227	RAD	714R5	0.11	0.07	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	AC-228	RAD	713R6	0.28	0.25	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	AM-241	RAD	713R6	0.056	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	BI-214	RAD	713R6	0.28	0.16	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	CO-60	RAD	713R6	0.035	0.06	PCI/G	U			TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	CS-137	RAD	713R6	-0.035	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	K-40	RAD	713R6	5.4	1.70	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	PA-231	RAD	713R6	-0.7	1.90	PCI/G	U	UJ		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	PA-234M	RAD	713R6	-3	11.00	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	PB-212	RAD	713R6	0.49	0.16	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	PB-214	RAD	713R6	0.34	0.14	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	RA-226	RAD	783R3	1.63	0.31	PCI/G		J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	TH-228	RAD	714R5	0.56	0.12	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	TH-229	RAD	714R5	2.2	0.62	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	TH-230	RAD	714R5	0.75	0.13	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	TH-232	RAD	714R5	0.54	0.11	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	TH-234	RAD	713R6	0.43	0.77	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	TOTACTIV	RAD	704R5	7.3	4.80	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	U-232	RAD	714R5	3.53	0.65	PCI/G				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	U-234	RAD	714R5	0.62	0.14	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	U-235	RAD	713R6	-0.11	0.32	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	U-235	RAD	714R5	0.051	0.03	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108137	U-238	RAD	714R5	0.54	0.12	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ALUMINUM	M	SW6010	23000	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ANTIMONY	M	SW6010	10	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ARSENIC	M	SW6010	17	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BARIUM	M	SW6010	120	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	BERYLLIUM	M	SW6010	0.39	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CADMIUM	M	SW6010	12	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CALCIUM	M	SW6010	18000	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CHROMIUM	M	SW6010	100	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	COBALT	M	SW6010	9.8	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	COPPER	M	SW6010	1700	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	CYANIDE, TOTAL	OTHER	SW9010	0.87	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	IRON	M	SW6010	88000	0.00	MG/KG				TRUE	TRUE	SOIL

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COR0000SS120901	14-Aug-01	108128	LEAD	M	SW6010	690	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	MAGNESIUM	M	SW6010	4300	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	MANGANESE	M	SW6010	1100	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	MERCURY	M	SW7471	0.29	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	NICKEL	M	SW6010	98	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	POTASSIUM	M	SW6010	1300	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	SELENIUM	M	SW6010	1.6	0.00	MG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	SILVER	M	SW6010	3.4	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	SODIUM	M	SW6010	890	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	THALLIUM	M	SW6010	1.7	0.00	MG/KG	U	U		TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	VANADIUM	M	SW6010	20	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120901	14-Aug-01	108128	ZINC	M	SW6010	2400	0.00	MG/KG				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	AC-227	RAD	714R5	0.27	0.17	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	AC-228	RAD	713R6	0.74	0.21	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	AM-241	RAD	713R6	0.1	0.24	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	BI-214	RAD	713R6	0.59	0.17	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	CO-60	RAD	713R6	0.027	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	CS-137	RAD	713R6	0.054	0.05	PCI/G	TI			TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	K-40	RAD	713R6	11.7	2.20	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	PA-231	RAD	713R6	-0.4	1.30	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	PA-234M	RAD	713R6	-2.1	6.50	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	PB-212	RAD	713R6	0.67	0.15	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	PB-214	RAD	713R6	0.57	0.14	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	RA-226	RAD	783R2	0.65	0.16	PCI/G	Y	J		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	TH-228	RAD	714R5	0.64	0.18	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	TH-229	RAD	714R5	0.455	0.40	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	TH-230	RAD	714R5	0.85	0.18	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	TH-232	RAD	714R5	0.8	0.18	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	TH-234	RAD	713R6	0.73	0.85	PCI/G	TI			TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	TL-208	RAD	713R6	0.21	0.07	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	TOTACTIV	RAD	704R5	7.6	3.70	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	U-232	RAD	714R5	6.2	1.30	PCI/G				TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	U-234	RAD	714R5	0.8	0.22	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	U-235	RAD	713R6	-0.05	0.28	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	U-235	RAD	714R5	0.095	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120722	14-Aug-01	108127	U-238	RAD	714R5	0.81	0.22	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	AC-227	RAD	714R5	0.21	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	AC-228	RAD	713R6	0.58	0.16	PCI/G				TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	AM-241	RAD	713R6	-0.15	0.25	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	BI-214	RAD	713R6	0.5	0.14	PCI/G				TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	CO-60	RAD	713R6	0.033	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	CS-137	RAD	713R6	0.014	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	K-40	RAD	713R6	11	2.20	PCI/G				TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	PA-231	RAD	713R6	-0.8	1.30	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	PA-234M	RAD	713R6	0.7	7.50	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	PB-212	RAD	713R6	0.74	0.16	PCI/G				TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	PB-214	RAD	713R6	0.63	0.15	PCI/G				TRUE	TRUE	SOIL

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COR0000SS120721	14-Aug-01	108127	RA-226	RAD	783R2	0.49	0.15	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	TH-228	RAD	714R5	0.62	0.16	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	TH-229	RAD	714R5	0.43	0.37	PCI/G				TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	TH-230	RAD	714R5	0.81	0.16	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	TH-232	RAD	714R5	0.73	0.15	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	TH-234	RAD	713R6	0.9	0.86	PCI/G	TI			TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	TL-208	RAD	713R6	0.156	0.06	PCI/G				TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	TOTACTIV	RAD	704R5	7.2	3.70	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	U-232	RAD	714R5	5.38	1.40	PCI/G				TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	U-234	RAD	714R5	0.71	0.21	PCI/G	LT	J		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	U-235	RAD	713R6	-0.25	0.29	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	U-235	RAD	714R5	0.083	0.07	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120721	14-Aug-01	108127	U-238	RAD	714R5	0.89	0.24	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	AC-227	RAD	714R5	0.1	0.11	PCI/G		J		TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	AC-228	RAD	713R6	0.73	0.20	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	AM-241	RAD	713R6	-0.24	0.27	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	BI-212	RAD	713R6	1.12	0.68	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	BI-214	RAD	713R6	0.68	0.17	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	CO-60	RAD	713R6	0.027	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	CS-137	RAD	713R6	0.054	0.05	PCI/G	TI			TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	K-40	RAD	713R6	20.9	3.80	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	PA-231	RAD	713R6	-0.6	1.40	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	PA-234M	RAD	713R6	-0.6	8.10	PCI/G	U	U		TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	PB-212	RAD	713R6	0.97	0.20	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	PB-214	RAD	713R6	0.73	0.16	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	RA-226	RAD	783R2	0.89	0.20	PCI/G	Y			TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	TH-228	RAD	714R5	1.09	0.22	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	TH-229	RAD	714R5	0.376	0.39	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	TH-230	RAD	714R5	1.1	0.21	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	TH-232	RAD	714R5	1.1	0.21	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	TH-234	RAD	713R6	1.9	1.10	PCI/G	TI			TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	TL-208	RAD	713R6	0.355	0.09	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	TOTACTIV	RAD	704R5	10.7	3.80	PCI/G		J		TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	U-232	RAD	714R5	5.69	1.40	PCI/G				TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	U-234	RAD	714R5	1.04	0.26	PCI/G		J		TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	U-235	RAD	713R6	0.26	0.29	PCI/G	TI			TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	U-235	RAD	714R5	0.077	0.06	PCI/G	LT			TRUE	TRUE	SOIL
COR0000SS120361	14-Aug-01	108127	U-238	RAD	714R5	1.04	0.26	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109026	Ac-227	T-RAD	714R5	1.79	0.62	PCI/L		J		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Ac-228	T-RAD	713R6	19	33.00	PCI/L	U			TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Am-241	T-RAD	713R6	4.1	9.50	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Co-60	T-RAD	713R6	6.6	9.40	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Cs-137	T-RAD	713R6	3.2	8.90	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	K-40	T-RAD	713R6	-60	160.00	PCI/L	U	UJ		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Pa-231	T-RAD	713R6	0	230.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Pa-234m	T-RAD	713R6	-100	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Ra-226	T-RAD	783R3	11.2	1.80	PCI/L				TRUE	TRUE	E

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ARC2013SS246600	03-Sep-01	109026	Ra-228	T-RAD	724R6	1.7	1.10	PCI/L		J		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Th-228	T-RAD	714R5	0	0.17	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Th-229	T-RAD	714R5	10.2	2.10	PCI/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Th-230	T-RAD	714R5	0.63	0.19	PCI/L	LT	J		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Th-232	T-RAD	714R5	0.024	0.06	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	Th-234	T-RAD	713R6	26	85.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	U-232	T-RAD	714R5	24.2	11.00	PCI/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	U-234	T-RAD	714R5	142	23.00	PCI/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	U-235	T-RAD	714R5	6.5	2.10	PCI/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	U-235	T-RAD	713R6	13	33.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	U-238	T-RAD	714R5	144	23.00	PCI/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109025	AC-227	RAD	714R5	3.75	0.80	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	AC-228	RAD	713R6	0.85	0.35	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	AM-241	RAD	713R6	0	0.18	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	BI-214	RAD	713R6	2.22	0.51	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	CO-60	RAD	713R6	0.011	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	CS-137	RAD	713R6	-0.007	0.09	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	K-40	RAD	713R6	15.3	3.80	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	PA-231	RAD	713R6	3.5	2.60	PCI/G	TI	J		TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	PA-234M	RAD	713R6	24	18.00	PCI/G	TI			TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	PB-212	RAD	713R6	0.88	0.24	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	PB-214	RAD	713R6	2.9	0.57	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	RA-226	RAD	783R3	4.3	0.53	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TH-227	RAD	713R6	3.28	0.92	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TH-228	RAD	714R5	1.21	0.24	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TH-229	RAD	714R5	1.95	0.69	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TH-230	RAD	714R5	76	10.00	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TH-232	RAD	714R5	1.06	0.21	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TH-234	RAD	713R6	12.4	2.60	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TL-208	RAD	713R6	0.32	0.12	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	TOTACTIV	RAD	704R5	137	15.00	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	U-232	RAD	714R5	1.81	0.75	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	U-234	RAD	714R5	11.1	1.70	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	U-235	RAD	713R6	1.79	0.70	PCI/G	TI			TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	U-235	RAD	714R5	0.93	0.22	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109025	U-238	RAD	714R5	12	1.90	PCI/G				TRUE	TRUE	SOIL
ARC2013SS246600	03-Sep-01	109026	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.418	0.00	MG/L	*	*	SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	ACID	T-HER	SW8151	0.019	0.00	MG/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	2-FLUOROBIPHENYL	T-OS	SW8270	0.212	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARC2013SS246600	03-Sep-01	109026	2-FLUOROPHENOL	T-OS	SW8270	0.286	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.051	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	BARIUM	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	CADMIUM	T-M	SW6010	0.0018	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	DECACHLOROBIPHENYL	T-PES	SW8081	0.00351	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0522	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	LEAD	T-M	SW6010	0.049	0.00	MG/L				TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	MERCURY	T-M	SW6010	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	NITROBENZENE-D5	T-OS	SW8270	0.192	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	PHENOL-D5	T-OS	SW8270	0.297	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	SELENIUM	T-M	SW6010	0.018	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U			TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	TERPHENYL-D14	T-OS	SW8270	0.234	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00383	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	TOLUENE-D8	T-OV	SW8260	0.0512	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS246600	03-Sep-01	109026	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS246600	03-Sep-01	109026	ZINC	T-M	SW6010	2.8	0.00	MG/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Ac-227	T-RAD	714R5	4.24	0.97	PCI/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Ac-228	T-RAD	713R6	-2	29.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Am-241	T-RAD	713R6	-0.6	8.80	PCI/L	U	U		TRUE	TRUE	E

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ARC2013SS126240	03-Sep-01	109026	Co-60	T-RAD	713R6	-10	12.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Cs-137	T-RAD	713R6	-3.2	7.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	K-40	T-RAD	713R6	-140	150.00	PCI/L	U	UJ		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Pa-231	T-RAD	713R6	-220	200.00	PCI/L	U	UJ		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Pa-234m	T-RAD	713R6	1100	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Ra-226	T-RAD	783R3	9.9	1.20	PCI/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Ra-228	T-RAD	724R6	1.5	1.10	PCI/L		J		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Th-228	T-RAD	714R5	0.16	0.10	PCI/L	LT			TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Th-229	T-RAD	714R5	9.47	2.10	PCI/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Th-230	T-RAD	714R5	8.1	1.20	PCI/L		J		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Th-232	T-RAD	714R5	0.035	0.05	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	Th-234	T-RAD	713R6	-10	81.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	U-232	T-RAD	714R5	28.5	11.00	PCI/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	U-234	T-RAD	714R5	110	18.00	PCI/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	U-235	T-RAD	714R5	5.2	1.80	PCI/L		J		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	U-235	T-RAD	713R6	-1	35.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	U-238	T-RAD	714R5	114	19.00	PCI/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109025	AC-227	RAD	714R5	2.46	0.59	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	AC-228	RAD	713R6	1.16	0.33	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	AM-241	RAD	713R6	-0.13	0.19	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	BI-214	RAD	713R6	2.42	0.50	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	CO-60	RAD	713R6	-0.016	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	CS-137	RAD	713R6	0.08	0.08	PCI/G	TI			TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	K-40	RAD	713R6	17.1	3.80	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	PA-231	RAD	713R6	3.1	2.20	PCI/G	TI	J		TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	PA-234M	RAD	713R6	14	15.00	PCI/G	TI			TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	PB-212	RAD	713R6	0.86	0.23	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	PB-214	RAD	713R6	2.75	0.53	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	RA-226	RAD	783R3	4.02	0.51	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TH-227	RAD	713R6	2.89	0.81	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TH-228	RAD	714R5	1.25	0.25	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TH-229	RAD	714R5	2.14	0.69	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TH-230	RAD	714R5	51.4	7.00	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TH-232	RAD	714R5	1.08	0.21	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TH-234	RAD	713R6	7.9	1.80	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TL-208	RAD	713R6	0.31	0.11	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	TOTACTIV	RAD	704R5	84.6	9.60	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	U-232	RAD	714R5	2.8	0.68	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	U-234	RAD	714R5	6.44	0.96	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	U-235	RAD	713R6	1.44	0.64	PCI/G	TI			TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	U-235	RAD	714R5	0.56	0.14	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109025	U-238	RAD	714R5	6.44	0.96	PCI/G				TRUE	TRUE	SOIL
ARC2013SS126240	03-Sep-01	109026	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.409	0.00	MG/L	*	*	SURROGATE RECOVERY	FALSE	FALSE	E

SAMPLE_NO	COLL_DATE	Lab SDG	PARAMETER	FRACTION	METHOD	LAB_RESULT	UNCERTNTY	UNITS	LAB_ QUAL	SAIC DATA_ QUAL	COMMENTS	VALIDATED	OK_TO_USE in Reports	MATRIX
ARC2013SS126240	03-Sep-01	109026	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	ACID	T-HER	SW8151	0.0172	0.00	MG/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	2-FLUOROBIPHENYL	T-OS	SW8270	0.244	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	2-FLUOROPHENOL	T-OS	SW8270	0.325	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0494	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	ARSENIC	T-M	SW6010	0.011	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	BARIUM	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	CADMIUM	T-M	SW6010	0.03	0.00	MG/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	CHROMIUM	T-M	SW6010	0.003	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	DECACHLOROBIPHENYL	T-PES	SW8081	0.00393	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0507	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	LEAD	T-M	SW6010	0.069	0.00	MG/L				TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	MERCURY	T-M	SW6010	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	NITROBENZENE-D5	T-OS	SW8270	0.209	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	PHENOL-D5	T-OS	SW8270	0.344	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	SILVER	T-M	SW6010	0.0022	0.00	MG/L	B	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	TERPHENYL-D14	T-OS	SW8270	0.255	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00379	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	TOLUENE-D8	T-OV	SW8260	0.0497	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS126240	03-Sep-01	109026	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC2013SS126240	03-Sep-01	109026	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS126240	03-Sep-01	109026	ZINC	T-M	SW6010	1.4	0.00	MG/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Ac-227	T-RAD	714R5	11.7	2.00	PCI/L		J		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Ac-228	T-RAD	713R6	16	33.00	PCI/L	U			TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Am-241	T-RAD	713R6	5	11.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Co-60	T-RAD	713R6	8.7	8.10	PCI/L	TI			TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Cs-137	T-RAD	713R6	-3	7.30	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	K-40	T-RAD	713R6	30	130.00	PCI/L	U	UJ		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Pa-231	T-RAD	713R6	160	250.00	PCI/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Pa-234m	T-RAD	713R6	1400	1400.00	PCI/L	TI			TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Ra-226	T-RAD	783R3	36.5	3.80	PCI/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Ra-228	T-RAD	724R6	2	1.10	PCI/L		J		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Th-228	T-RAD	714R5	0.19	0.20	PCI/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Th-229	T-RAD	714R5	11	2.10	PCI/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Th-230	T-RAD	714R5	20.5	2.80	PCI/L		J		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Th-232	T-RAD	714R5	0.104	0.08	PCI/L	LT			TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	Th-234	T-RAD	713R6	110	95.00	PCI/L	TI			TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	U-232	T-RAD	714R5	8.8	11.00	PCI/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	U-234	T-RAD	714R5	519	79.00	PCI/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	U-235	T-RAD	714R5	28.7	5.80	PCI/L		J		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	U-235	T-RAD	713R6	35	39.00	PCI/L	TI			TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	U-238	T-RAD	714R5	513	78.00	PCI/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109025	AC-227	RAD	714R5	7.7	1.40	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	AC-228	RAD	713R6	1.23	0.34	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	AM-241	RAD	713R6	0.7	0.65	PCI/G	TI			TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	BI-212	RAD	713R6	1.28	0.83	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	BI-214	RAD	713R6	4.84	0.85	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	CO-60	RAD	713R6	0.011	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	CS-137	RAD	713R6	-0.029	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	K-40	RAD	713R6	17.1	3.30	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	PA-231	RAD	713R6	13.1	3.00	PCI/G		J		TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	PA-234M	RAD	713R6	24	15.00	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	PB-212	RAD	713R6	0.86	0.23	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	PB-214	RAD	713R6	7.3	1.30	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	RA-226	RAD	783R3	9.9	1.10	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TH-227	RAD	713R6	9.4	1.80	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TH-228	RAD	714R5	1.08	0.23	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TH-229	RAD	714R5	1.9	0.70	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TH-230	RAD	714R5	192	27.00	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TH-232	RAD	714R5	1.15	0.23	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TH-234	RAD	713R6	25.8	4.80	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TL-208	RAD	713R6	0.26	0.10	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	TOTACTIV	RAD	704R5	302	31.00	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	U-232	RAD	714R5	0.841	0.76	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	U-234	RAD	714R5	27.3	4.10	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	U-235	RAD	713R6	5.7	1.30	PCI/G	TI			TRUE	FALSE	SOIL

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ARC2013SS066360	03-Sep-01	109025	U-235	RAD	714R5	2.61	0.49	PCI/G		J		TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109025	U-238	RAD	714R5	27.4	4.20	PCI/G				TRUE	TRUE	SOIL
ARC2013SS066360	03-Sep-01	109026	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.407	0.00	MG/L	*	*	SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	ACID	T-HER	SW8151	0.0182	0.00	MG/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	2-FLUOROBIPHENYL	T-OS	SW8270	0.235	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	2-FLUOROPHENOL	T-OS	SW8270	0.312	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0492	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	ARSENIC	T-M	SW6010	0.069	0.00	MG/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	BARIUM	T-M	SW6010	0.95	0.00	MG/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	CADMIUM	T-M	SW6010	0.022	0.00	MG/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	CHROMIUM	T-M	SW6010	0.0046	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	DECACHLOROBIPHENYL	T-PES	SW8081	0.00337	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0498	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	LEAD	T-M	SW6010	0.064	0.00	MG/L				TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	MERCURY	T-M	SW6010	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	NITROBENZENE-D5	T-OS	SW8270	0.21	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	PHENOL-D5	T-OS	SW8270	0.315	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	SELENIUM	T-M	SW6010	0.023	0.00	MG/L	B	B		TRUE	TRUE	E

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ARC2013SS066360	03-Sep-01	109026	SILVER	T-M	SW6010	0.0043	0.00	MG/L	B	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	TERPHENYL-D14	T-OS	SW8270	0.235	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00391	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	TOLUENE-D8	T-OV	SW8260	0.05	0.00	MG/L			S	FALSE	FALSE	E
ARC2013SS066360	03-Sep-01	109026	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2013SS066360	03-Sep-01	109026	ZINC	T-M	SW6010	1.8	0.00	MG/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Ac-227	T-RAD	714R5	0.3	0.34	PCI/L		J		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Ac-228	T-RAD	713R6	-12	32.00	PCI/L	U			TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Am-241	T-RAD	713R6	8.2	9.60	PCI/L	TI			TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Co-60	T-RAD	713R6	5.6	8.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Cs-137	T-RAD	713R6	3.2	7.80	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	K-40	T-RAD	713R6	40	130.00	PCI/L	U	UJ		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Pa-231	T-RAD	713R6	-160	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Pa-234m	T-RAD	713R6	-400	1300.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Ra-226	T-RAD	783R3	7.24	0.91	PCI/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Ra-228	T-RAD	724R6	0.51	0.47	PCI/L		J		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Th-228	T-RAD	714R5	-0.026	0.07	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Th-229	T-RAD	714R5	6.24	2.60	PCI/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Th-230	T-RAD	714R5	0.62	0.32	PCI/L	LT	J		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Th-232	T-RAD	714R5	-0.005	0.08	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	Th-234	T-RAD	713R6	45	67.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	U-232	T-RAD	714R5	46.1	10.00	PCI/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	U-234	T-RAD	714R5	31.2	5.40	PCI/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	U-235	T-RAD	714R5	1.62	0.79	PCI/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	U-235	T-RAD	713R6	-1	36.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	U-238	T-RAD	714R5	31.4	5.40	PCI/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109025	AC-227	RAD	714R5	1.44	0.38	PCI/G		J		TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	AC-228	RAD	713R6	0.52	0.18	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	AM-241	RAD	713R6	0.15	0.30	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	BI-214	RAD	713R6	1.04	0.24	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	CO-60	RAD	713R6	0.02	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	CS-137	RAD	713R6	0.019	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	K-40	RAD	713R6	8.5	1.90	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	PA-231	RAD	713R6	3	1.90	PCI/G	TI			TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	PA-234M	RAD	713R6	-1	8.50	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	PB-212	RAD	713R6	0.68	0.17	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	PB-214	RAD	713R6	1.42	0.28	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	RA-226	RAD	783R3	2.7	0.37	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	TH-227	RAD	713R6	0.95	0.36	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	TH-228	RAD	714R5	0.58	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	TH-229	RAD	714R5	2.89	0.67	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	TH-230	RAD	714R5	24.7	3.40	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	TH-232	RAD	714R5	0.64	0.14	PCI/G	LT			TRUE	TRUE	SOIL

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ARC2009SS124440	03-Sep-01	109025	TH-234	RAD	713R6	2.2	1.10	PCI/G	TI			TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	TL-208	RAD	713R6	0.143	0.06	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	TOTACTIV	RAD	704R5	46.8	6.30	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	U-232	RAD	714R5	3.04	0.65	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	U-234	RAD	714R5	2.96	0.46	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	U-235	RAD	713R6	0.38	0.41	PCI/G	TI			TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	U-235	RAD	714R5	0.146	0.06	PCI/G	LT			TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109025	U-238	RAD	714R5	2.86	0.45	PCI/G				TRUE	TRUE	SOIL
ARC2009SS124440	03-Sep-01	109026	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.402	0.00	MG/L	*	*	SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	ACID	T-HER	SW8151	0.0185	0.00	MG/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	2-FLUOROBIPHENYL	T-OS	SW8270	0.21	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	2-FLUOROPHENOL	T-OS	SW8270	0.28	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0506	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	BARIUM	T-M	SW6010	0.62	0.00	MG/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	CADMIUM	T-M	SW6010	0.03	0.00	MG/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	DECACHLOROBIPHENYL	T-PES	SW8081	0.004	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0516	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	LEAD	T-M	SW6010	0.14	0.00	MG/L				TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	MERCURY	T-M	SW6010	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC2009SS124440	03-Sep-01	109026	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	NITROBENZENE-D5	T-OS	SW8270	0.193	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	PHENOL-D5	T-OS	SW8270	0.295	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	TERPHENYL-D14	T-OS	SW8270	0.246	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00397	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	TOLUENE-D8	T-OV	SW8260	0.0502	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS124440	03-Sep-01	109026	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS124440	03-Sep-01	109026	ZINC	T-M	SW6010	14	0.00	MG/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Ac-227	T-RAD	714R5	0.41	0.38	PCI/L		J		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Ac-228	T-RAD	713R6	4	30.00	PCI/L	U			TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Am-241	T-RAD	713R6	12	10.00	PCI/L	TI			TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Co-60	T-RAD	713R6	-0.8	7.90	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Cs-137	T-RAD	713R6	-4.2	7.60	PCI/L	U			TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	K-40	T-RAD	713R6	70	130.00	PCI/L	U	UJ		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Pa-231	T-RAD	713R6	150	210.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Pa-234m	T-RAD	713R6	200	1100.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Ra-226	T-RAD	783R3	10.3	1.20	PCI/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Ra-228	T-RAD	724R6	2.04	0.59	PCI/L		J		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Th-228	T-RAD	714R5	0	0.14	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Th-229	T-RAD	714R5	6.44	2.70	PCI/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Th-230	T-RAD	714R5	0.66	0.32	PCI/L	LT	J		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Th-232	T-RAD	714R5	-0.013	0.06	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	Th-234	T-RAD	713R6	25	83.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	U-232	T-RAD	714R5	28.2	12.00	PCI/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	U-234	T-RAD	714R5	94	16.00	PCI/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	U-235	T-RAD	714R5	4.7	1.80	PCI/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	U-235	T-RAD	713R6	-16	39.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	U-238	T-RAD	714R5	88	15.00	PCI/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109025	AC-227	RAD	714R5	4.92	0.95	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	AC-228	RAD	713R6	0.65	0.21	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	AM-241	RAD	713R6	0.36	0.50	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	BI-214	RAD	713R6	3.4	0.62	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	CO-60	RAD	713R6	-0.016	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	CS-137	RAD	713R6	-0.014	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	K-40	RAD	713R6	14	2.80	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	PA-231	RAD	713R6	15.3	3.80	PCI/G	TI	J		TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	PA-234M	RAD	713R6	7	11.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	PB-212	RAD	713R6	0.96	0.22	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	PB-214	RAD	713R6	4.89	0.85	PCI/G				TRUE	TRUE	SOIL

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ARC2009SS123900	03-Sep-01	109025	RA-226	RAD	783R3	7.54	0.85	PCI/G	Y1			TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	TH-227	RAD	713R6	5.8	1.20	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	TH-228	RAD	714R5	0.97	0.21	PCI/G	LT			TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	TH-229	RAD	714R5	2.19	0.70	PCI/G				TRUE	FALSE	SOIL
ARC2009SS123900	03-Sep-01	109025	TH-230	RAD	714R5	112	15.00	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	TH-232	RAD	714R5	1.06	0.22	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	TH-234	RAD	713R6	8.5	2.20	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	TL-208	RAD	713R6	0.267	0.09	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	TOTACTIV	RAD	704R5	178	19.00	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	U-232	RAD	714R5	2.34	0.71	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	U-234	RAD	714R5	7.8	1.20	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	U-235	RAD	713R6	1.98	0.58	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	U-235	RAD	714R5	0.98	0.21	PCI/G	LT	R		TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109025	U-238	RAD	714R5	8.3	1.30	PCI/G				TRUE	TRUE	SOIL
ARC2009SS123900	03-Sep-01	109026	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.417	0.00	MG/L	*	*	SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	ACID	T-HER	SW8151	0.0183	0.00	MG/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	2-FLUOROBIPHENYL	T-OS	SW8270	0.239	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	2-FLUOROPHENOL	T-OS	SW8270	0.312	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0491	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	ARSENIC	T-M	SW6010	0.015	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	BARIUM	T-M	SW6010	1.6	0.00	MG/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	CADMIUM	T-M	SW6010	0.013	0.00	MG/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	COPPER	T-M	SW6010	0.0048	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	DECACHLOROBIPHENYL	T-PES	SW8081	0.00333	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.05	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC2009SS123900	03-Sep-01	109026	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	LEAD	T-M	SW6010	0.064	0.00	MG/L				TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	MERCURY	T-M	SW6010	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	NITROBENZENE-D5	T-OS	SW8270	0.214	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	PHENOL-D5	T-OS	SW8270	0.336	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	SELENIUM	T-M	SW6010	0.02	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	SILVER	T-M	SW6010	0.0027	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	TERPHENYL-D14	T-OS	SW8270	0.263	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00401	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	TOLUENE-D8	T-OV	SW8260	0.0495	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS123900	03-Sep-01	109026	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS123900	03-Sep-01	109026	ZINC	T-M	SW6010	4.8	0.00	MG/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Ac-227	T-RAD	714R5	0.32	0.34	PCI/L		J		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Ac-228	T-RAD	713R6	-2	30.00	PCI/L	U			TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Am-241	T-RAD	713R6	6.3	9.40	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Co-60	T-RAD	713R6	5.6	7.70	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Cs-137	T-RAD	713R6	-5.8	7.60	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	K-40	T-RAD	713R6	20	110.00	PCI/L	U	UJ		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Pa-231	T-RAD	713R6	-20	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Pa-234m	T-RAD	713R6	200	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Ra-226	T-RAD	783R3	22	2.70	PCI/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Ra-228	T-RAD	724R6	1.78	0.56	PCI/L		J		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Th-228	T-RAD	714R5	-0.03	0.13	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Th-229	T-RAD	714R5	6.46	2.70	PCI/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Th-230	T-RAD	714R5	0.68	0.34	PCI/L	LT	J		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Th-232	T-RAD	714R5	-0.014	0.07	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	Th-234	T-RAD	713R6	-13	93.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	U-232	T-RAD	714R5	39.9	11.00	PCI/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	U-234	T-RAD	714R5	68	11.00	PCI/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	U-235	T-RAD	714R5	3.8	1.30	PCI/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	U-235	T-RAD	713R6	28	36.00	PCI/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	U-238	T-RAD	714R5	72	11.00	PCI/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109025	AC-227	RAD	714R5	3.31	0.74	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	AC-228	RAD	713R6	0.6	0.19	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	AM-241	RAD	713R6	0.47	0.41	PCI/G	TI			TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	BI-212	RAD	713R6	1.21	0.73	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	BI-214	RAD	713R6	2.49	0.46	PCI/G				TRUE	TRUE	SOIL

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ARC2009SS063960	03-Sep-01	109025	CO-60	RAD	713R6	-0.008	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	CS-137	RAD	713R6	-0.012	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	K-40	RAD	713R6	15.8	3.00	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	PA-231	RAD	713R6	6.6	1.90	PCI/G		J		TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	PA-234M	RAD	713R6	8.2	8.40	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	PB-212	RAD	713R6	0.95	0.20	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	PB-214	RAD	713R6	3.4	0.60	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	RA-226	RAD	783R3	4.79	0.58	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TH-227	RAD	713R6	3.7	0.82	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TH-228	RAD	714R5	0.99	0.22	PCI/G	LT			TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TH-229	RAD	714R5	2.03	0.71	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TH-230	RAD	714R5	65.8	9.20	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TH-232	RAD	714R5	1.07	0.22	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TH-234	RAD	713R6	5.5	1.90	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TL-208	RAD	713R6	0.215	0.08	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	TOTACTIV	RAD	704R5	99	11.00	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	U-232	RAD	714R5	2.81	0.67	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	U-234	RAD	714R5	5.38	0.81	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	U-235	RAD	713R6	1.56	0.53	PCI/G	TI			TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	U-235	RAD	714R5	0.54	0.13	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109025	U-238	RAD	714R5	5.69	0.85	PCI/G				TRUE	TRUE	SOIL
ARC2009SS063960	03-Sep-01	109026	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.395	0.00	MG/L	*	*	SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	ACID	T-HER	SW8151	0.0187	0.00	MG/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	2-FLUOROBIPHENYL	T-OS	SW8270	0.231	0.00	MG/L			S	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	2-FLUOROPHENOL	T-OS	SW8270	0.312	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0503	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	ARSENIC	T-M	SW6010	0.018	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	BARIUM	T-M	SW6010	1.6	0.00	MG/L		U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	CADMIUM	T-M	SW6010	0.016	0.00	MG/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	COPPER	T-M	SW6010	0.011	0.00	MG/L	B	B		TRUE	TRUE	E

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ARC2009SS063960	03-Sep-01	109026	DECACHLOROBIPHENYL	T-PES	SW8081	0.00354	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.05	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	LEAD	T-M	SW6010	0.032	0.00	MG/L				TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	MERCURY	T-M	SW6010	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	NITROBENZENE-D5	T-OS	SW8270	0.204	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	PHENOL-D5	T-OS	SW8270	0.33	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	SELENIUM	T-M	SW6010	0.013	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	SILVER	T-M	SW6010	0.0042	0.00	MG/L	B	B		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	TERPHENYL-D14	T-OS	SW8270	0.254	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00392	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	TOLUENE-D8	T-OV	SW8260	0.0501	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC2009SS063960	03-Sep-01	109026	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC2009SS063960	03-Sep-01	109026	ZINC	T-M	SW6010	2.3	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	AC-227	T-RAD	714R5	0.17	0.53	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	AC-228	T-RAD	713R6	-12	30.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	AM-241	T-RAD	713R6	-2.2	8.90	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	CO-60	T-RAD	713R6	-10.4	9.30	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	CS-137	T-RAD	713R6	-3.9	8.10	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	K-40	T-RAD	713R6	-40	120.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	PA-231	T-RAD	713R6	120	210.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	PA-234M	T-RAD	713R6	600	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	RA-226	T-RAD	783R3	1.31	0.28	PCI/L		J		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	RA-228	T-RAD	724R6	0.88	0.48	PCI/L	LT			TRUE	TRUE	WATER
ARC1008SS120540	19-Aug-01	108195	TH-228	T-RAD	714R5	0.01	0.14	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	TH-229	T-RAD	714R5	10.6	2.10	PCI/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	TH-230	T-RAD	714R5	0.31	0.13	PCI/L	LT	J		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	TH-232	T-RAD	714R5	0.005	0.06	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	TH-234	T-RAD	713R6	3	81.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	U-232	T-RAD	714R5	48.7	10.00	PCI/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	U-234	T-RAD	714R5	4	1.30	PCI/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	U-235	T-RAD	713R6	11	35.00	PCI/L	U	U		TRUE	TRUE	E

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ARC1008SS120540	19-Aug-01	108195	U-235	T-RAD	714R5	0.32	0.34	PCI/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108195	U-238	T-RAD	714R5	4.3	1.30	PCI/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108194	AC-227	RAD	714R5	0.5	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	AC-228	RAD	713R6	0.51	0.25	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	AM-241	RAD	713R6	0.03	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	BI-214	RAD	713R6	0.58	0.25	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	CO-60	RAD	713R6	0.048	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	CS-137	RAD	713R6	-0.023	0.09	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	K-40	RAD	713R6	10	2.90	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	PA-231	RAD	713R6	-1.2	2.20	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	PA-234M	RAD	713R6	19	15.00	PCI/G	TI			TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	PB-212	RAD	713R6	0.66	0.21	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	PB-214	RAD	713R6	0.76	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	RA-226	RAD	783R3	0.7	0.19	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	TH-228	RAD	714R5	0.62	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	TH-229	RAD	714R5	2.76	0.62	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	TH-230	RAD	714R5	2.61	0.38	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	TH-232	RAD	714R5	0.56	0.11	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	TH-234	RAD	713R6	2.08	0.99	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	TL-208	RAD	713R6	0.31	0.13	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	TOTACTIV	RAD	704R5	16.9	4.50	PCI/G		J		TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	U-232	RAD	714R5	2.86	0.70	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	U-234	RAD	714R5	1.73	0.32	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	U-235	RAD	713R6	0.29	0.35	PCI/G	U			TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	U-235	RAD	714R5	0.104	0.05	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108194	U-238	RAD	714R5	1.81	0.34	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120540	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.326	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	ACID	T-HER	SW8151	0.0168	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.202	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0455	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	BARIUM	T-M	SW6010	0.81	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.13	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1008SS120540	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	COPPER	T-M	SW6010	0.021	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00379	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0468	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	LEAD	T-M	SW6010	0.05	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.208	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.276	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00463	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0492	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120540	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120540	19-Aug-01	108180	ZINC	T-M	SW6010	16	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	AC-227	T-RAD	714R5	1.86	0.63	PCI/L		J		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	AC-228	T-RAD	713R6	1	36.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	AM-241	T-RAD	713R6	-0.4	9.80	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	CO-60	T-RAD	713R6	3.2	8.80	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	CS-137	T-RAD	713R6	-1.5	7.30	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	K-40	T-RAD	713R6	20	130.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	PA-231	T-RAD	713R6	140	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	PA-234M	T-RAD	713R6	-500	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	RA-226	T-RAD	783R3	22.8	2.40	PCI/L		J		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	RA-228	T-RAD	724R6	0.98	0.40	PCI/L	LT			TRUE	TRUE	WATER
ARC1008SS120320	19-Aug-01	108195	TH-228	T-RAD	714R5	0.02	0.06	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	TH-229	T-RAD	714R5	11	2.10	PCI/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	TH-230	T-RAD	714R5	0.74	0.21	PCI/L	LT	R		TRUE	TRUE	E

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ARC1008SS120320	19-Aug-01	108195	TH-232	T-RAD	714R5	-0.002	0.03	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	TH-234	T-RAD	713R6	13	79.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	U-232	T-RAD	714R5	38.4	11.00	PCI/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	U-234	T-RAD	714R5	69	11.00	PCI/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	U-235	T-RAD	713R6	-2	35.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	U-235	T-RAD	714R5	3.7	1.40	PCI/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108195	U-238	T-RAD	714R5	70	12.00	PCI/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108194	AC-227	RAD	714R5	20.4	2.90	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	AC-228	RAD	713R6	1.02	0.28	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	AM-241	RAD	713R6	0.15	0.29	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	BI-214	RAD	713R6	5.7	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	CO-60	RAD	713R6	-0.027	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	CS-137	RAD	713R6	0.052	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	K-40	RAD	713R6	12.3	2.50	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	PA-231	RAD	713R6	19.1	4.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	PA-234M	RAD	713R6	26	13.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	PB-212	RAD	713R6	0.86	0.24	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	PB-214	RAD	713R6	9.1	1.50	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	RA-226	RAD	783R3	21.1	2.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TH-227	RAD	713R6	12.1	2.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TH-228	RAD	714R5	1.08	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TH-229	RAD	714R5	4.49	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TH-230	RAD	714R5	450	58.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TH-232	RAD	714R5	1.23	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TH-234	RAD	713R6	20	4.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TL-208	RAD	713R6	0.244	0.10	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	TOTACTIV	RAD	704R5	689	71.00	PCI/G		J		TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	U-232	RAD	714R5	9.43	2.80	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	U-234	RAD	714R5	32.3	4.90	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	U-235	RAD	713R6	4.07	0.93	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	U-235	RAD	714R5	2	0.55	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108194	U-238	RAD	714R5	30.7	4.70	PCI/G				TRUE	TRUE	SOIL
ARC1008SS120320	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.279	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	ACID	T-HER	SW8151	0.0175	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.207	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.196	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.049	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARC1008SS120320	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	BARIUM	T-M	SW6010	1.3	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.021	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00337	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0474	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	LEAD	T-M	SW6010	0.12	0.00	MG/L				TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.221	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.275	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.196	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00489	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0475	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS120320	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS120320	19-Aug-01	108180	ZINC	T-M	SW6010	3.5	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	AC-227	T-RAD	714R5	0.82	0.61	PCI/L		J		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	AC-228	T-RAD	713R6	1	30.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	AM-241	T-RAD	713R6	7.8	8.60	PCI/L	TI			TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	CO-60	T-RAD	713R6	-1.6	8.70	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	CS-137	T-RAD	713R6	-3.2	8.90	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	K-40	T-RAD	713R6	-20	110.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	PA-231	T-RAD	713R6	10	200.00	PCI/L	U	U		TRUE	TRUE	E

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ARC1008SS060760	19-Aug-01	108195	PA-234M	T-RAD	713R6	-200	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	RA-226	T-RAD	783R3	0.98	0.42	PCI/L	LT			TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	RA-228	T-RAD	724R6	1.88	0.44	PCI/L				TRUE	TRUE	WATER
ARC1008SS060760	19-Aug-01	108195	TH-228	T-RAD	714R5	-0.07	0.20	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	TH-229	T-RAD	714R5	10.7	2.10	PCI/L				TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	TH-230	T-RAD	714R5	0.27	0.13	PCI/L	LT	R		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	TH-232	T-RAD	714R5	0.059	0.06	PCI/L		J		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	TH-234	T-RAD	713R6	15	74.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	U-232	T-RAD	714R5	47.3	10.00	PCI/L				TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	U-234	T-RAD	714R5	3.1	1.10	PCI/L				TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	U-235	T-RAD	713R6	8	38.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	U-235	T-RAD	714R5	0.07	0.18	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108195	U-238	T-RAD	714R5	2.37	0.96	PCI/L				TRUE	TRUE	E
ARC1008SS060760	19-Aug-01	108194	AC-227	RAD	714R5	0.32	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	AC-228	RAD	713R6	0.78	0.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	AM-241	RAD	713R6	0.09	0.16	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	BI-212	RAD	713R6	0.99	0.61	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	BI-214	RAD	713R6	0.56	0.17	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	CO-60	RAD	713R6	0.023	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	CS-137	RAD	713R6	-0.01	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	K-40	RAD	713R6	16.1	3.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	PA-231	RAD	713R6	0.5	1.30	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	PA-234M	RAD	713R6	2	7.40	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	PB-212	RAD	713R6	0.95	0.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	PB-214	RAD	713R6	0.78	0.18	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	RA-226	RAD	783R3	1.01	0.25	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	TH-228	RAD	714R5	0.95	0.18	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	TH-229	RAD	714R5	1.99	0.62	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	TH-230	RAD	714R5	0.97	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	TH-232	RAD	714R5	0.86	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	TH-234	RAD	713R6	1.43	0.75	PCI/G	TI			TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	TL-208	RAD	713R6	0.286	0.08	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	TOTACTIV	RAD	704R5	11.3	4.00	PCI/G		J		TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	U-232	RAD	714R5	3.05	0.66	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	U-234	RAD	714R5	0.83	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	U-235	RAD	713R6	0.09	0.27	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	U-235	RAD	714R5	0.066	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060760	19-Aug-01	108194	U-238	RAD	714R5	0.79	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108195	AC-227	T-RAD	714R5	0.88	0.42	PCI/L	LT	J		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	AC-228	T-RAD	713R6	-10	29.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	AM-241	T-RAD	713R6	5.8	9.50	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	CO-60	T-RAD	713R6	-2.4	8.90	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	CS-137	T-RAD	713R6	-1.5	8.60	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	K-40	T-RAD	713R6	-120	110.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	PA-231	T-RAD	713R6	-10	200.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	PA-234M	T-RAD	713R6	800	1400.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	RA-226	T-RAD	783R3	5.14	0.68	PCI/L		J		TRUE	TRUE	E

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ARC1008SS060420	19-Aug-01	108195	RA-228	T-RAD	724R6	1.24	0.42	PCI/L				TRUE	TRUE	WATER
ARC1008SS060420	19-Aug-01	108195	TH-228	T-RAD	714R5	0.065	0.07	PCI/L		J		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	TH-229	T-RAD	714R5	10.4	2.10	PCI/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	TH-230	T-RAD	714R5	0.63	0.20	PCI/L	LT	J		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	TH-232	T-RAD	714R5	0.01	0.04	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	TH-234	T-RAD	713R6	30	84.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	U-232	T-RAD	714R5	43.7	11.00	PCI/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	U-234	T-RAD	714R5	10.9	2.60	PCI/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	U-235	T-RAD	713R6	8	35.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	U-235	T-RAD	714R5	0.2	0.28	PCI/L	LT	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108195	U-238	T-RAD	714R5	11.7	2.70	PCI/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108194	AC-227	RAD	714R5	2.05	0.38	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	AC-228	RAD	713R6	0.83	0.27	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	AM-241	RAD	713R6	0.08	0.13	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	BI-214	RAD	713R6	1.02	0.29	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	CO-60	RAD	713R6	0.017	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	CS-137	RAD	713R6	-0.019	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	K-40	RAD	713R6	11.8	2.90	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	PA-231	RAD	713R6	1.5	2.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	PA-234M	RAD	713R6	6	13.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	PB-212	RAD	713R6	1.05	0.25	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	PB-214	RAD	713R6	1.41	0.32	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	RA-226	RAD	783R3	1.45	0.29	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TH-227	RAD	713R6	0.94	0.52	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TH-228	RAD	714R5	1.04	0.19	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TH-229	RAD	714R5	2.21	0.62	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TH-230	RAD	714R5	30.8	4.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TH-232	RAD	714R5	0.88	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TH-234	RAD	713R6	1.9	1.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TL-208	RAD	713R6	0.28	0.10	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	TOTACTIV	RAD	704R5	65.8	8.00	PCI/G		J		TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	U-232	RAD	714R5	2.78	0.67	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	U-234	RAD	714R5	3.41	0.54	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	U-235	RAD	713R6	0.5	0.46	PCI/G	TI			TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	U-235	RAD	714R5	0.324	0.10	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108194	U-238	RAD	714R5	3.49	0.55	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060420	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.286	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	ACID	T-HER	SW8151	0.0178	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.198	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARC1008SS060420	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.196	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0476	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	BARIUM	T-M	SW6010	0.85	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.1	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	COPPER	T-M	SW6010	0.22	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00414	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0499	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	LEAD	T-M	SW6010	0.089	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.217	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.275	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.199	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00467	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0475	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060420	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060420	19-Aug-01	108180	ZINC	T-M	SW6010	19	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	AC-227	T-RAD	714R5	1.41	0.56	PCI/L		J		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	AC-228	T-RAD	713R6	7	31.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	AM-241	T-RAD	713R6	0.8	9.40	PCI/L	U	U		TRUE	TRUE	E

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ARC1008SS060360	19-Aug-01	108195	CO-60	T-RAD	713R6	-2.4	8.90	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	CS-137	T-RAD	713R6	-5.1	8.30	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	K-40	T-RAD	713R6	40	140.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	PA-231	T-RAD	713R6	-80	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	PA-234M	T-RAD	713R6	700	1400.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	RA-226	T-RAD	783R3	31.1	3.20	PCI/L		J		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	RA-228	T-RAD	724R6	1.44	0.43	PCI/L				TRUE	TRUE	WATER
ARC1008SS060360	19-Aug-01	108195	TH-228	T-RAD	714R5	0.072	0.09	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	TH-229	T-RAD	714R5	11.2	2.10	PCI/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	TH-230	T-RAD	714R5	0.33	0.14	PCI/L	LT	J		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	TH-232	T-RAD	714R5	0.02	0.06	PCI/L	U	UJ		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	TH-234	T-RAD	713R6	74	79.00	PCI/L	TI			TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	U-232	T-RAD	714R5	31.4	12.00	PCI/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	U-234	T-RAD	714R5	92	16.00	PCI/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	U-235	T-RAD	713R6	-26	39.00	PCI/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	U-235	T-RAD	714R5	4.2	1.70	PCI/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108195	U-238	T-RAD	714R5	92	16.00	PCI/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108194	AC-227	RAD	714R5	8.6	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	AC-228	RAD	713R6	0.92	0.26	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	AM-241	RAD	713R6	0.63	0.63	PCI/G	TI			TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	BI-214	RAD	713R6	5.5	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	CO-60	RAD	713R6	-0.008	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	CS-137	RAD	713R6	-0.042	0.09	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	K-40	RAD	713R6	11.1	2.30	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	PA-231	RAD	713R6	17	3.60	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	PA-234M	RAD	713R6	20	13.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	PB-212	RAD	713R6	0.85	0.22	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	PB-214	RAD	713R6	8.6	1.50	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	RA-226	RAD	783R3	9.6	1.10	PCI/G	Y1			TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TH-227	RAD	713R6	13.4	2.40	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TH-228	RAD	714R5	0.7	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TH-229	RAD	714R5	2.34	0.62	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TH-230	RAD	714R5	185	24.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TH-232	RAD	714R5	0.8	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TH-234	RAD	713R6	19.4	3.90	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TL-208	RAD	713R6	0.241	0.10	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	TOTACTIV	RAD	704R5	381	39.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	U-232	RAD	714R5	1.89	1.00	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	U-234	RAD	714R5	17.3	2.80	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	U-235	RAD	713R6	4.9	1.10	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	U-235	RAD	714R5	0.96	0.27	PCI/G	LT			TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108194	U-238	RAD	714R5	16.9	2.70	PCI/G				TRUE	TRUE	SOIL
ARC1008SS060360	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.29	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARC1008SS060360	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	ACID	T-HER	SW8151	0.0174	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.194	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.197	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0481	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	BARIUM	T-M	SW6010	0.83	0.00	MG/L				TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.0091	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00257	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0472	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.209	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.272	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.201	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00459	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0474	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1008SS060360	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1008SS060360	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1008SS060360	19-Aug-01	108180	ZINC	T-M	SW6010	2.7	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	AC-227	T-RAD	714R5	0.9	0.49	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	AC-228	T-RAD	713R6	-2	31.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	AM-241	T-RAD	713R6	-3.2	9.80	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CO-60	T-RAD	713R6	3.2	8.10	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CS-137	T-RAD	713R6	-2.2	7.70	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	K-40	T-RAD	713R6	-10	120.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	PA-231	T-RAD	713R6	-30	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	PA-234M	T-RAD	713R6	-300	1000.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	RA-226	T-RAD	783R3	1.21	0.31	PCI/L				TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	RA-228	T-RAD	724R6	1.07	0.48	PCI/L				TRUE	TRUE	WATER
ARC1004SS242401	21-Aug-01	108195	TH-228	T-RAD	714R5	0.03	0.12	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	TH-229	T-RAD	714R5	11.3	2.10	PCI/L				TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	TH-230	T-RAD	714R5	0.057	0.07	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	TH-232	T-RAD	714R5	0.039	0.05	PCI/L		J		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	TH-234	T-RAD	713R6	-15	77.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	U-232	T-RAD	714R5	50	10.00	PCI/L				TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	U-234	T-RAD	714R5	0.54	0.42	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	U-235	T-RAD	713R6	12	37.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	U-235	T-RAD	714R5	0.14	0.22	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	U-238	T-RAD	714R5	0.13	0.22	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108194	AC-227	RAD	714R5	0.32	0.14	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	AC-228	RAD	713R6	0.54	0.19	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	AM-241	RAD	713R6	-0.04	0.29	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	BI-212	RAD	713R6	0.9	0.71	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	BI-214	RAD	713R6	0.76	0.21	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	CO-60	RAD	713R6	-0.023	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	CS-137	RAD	713R6	0.131	0.07	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	K-40	RAD	713R6	8.3	1.90	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	PA-231	RAD	713R6	0.3	1.60	PCI/G	U	J		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	PA-234M	RAD	713R6	3.5	7.80	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	PB-212	RAD	713R6	0.72	0.18	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	PB-214	RAD	713R6	0.89	0.20	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	RA-226	RAD	783R3	0.35	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	TH-228	RAD	714R5	0.72	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	TH-229	RAD	714R5	2.19	0.63	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	TH-230	RAD	714R5	1.01	0.18	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	TH-232	RAD	714R5	0.75	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	TH-234	RAD	713R6	-0.14	0.91	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	TL-208	RAD	713R6	0.196	0.07	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	TOTACTIV	RAD	704R5	5.3	4.20	PCI/G		J		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	U-232	RAD	714R5	3.23	0.67	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	U-234	RAD	714R5	0.8	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	U-235	RAD	713R6	-0.11	0.34	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108194	U-235	RAD	714R5	0.041	0.03	PCI/G	LT			TRUE	TRUE	SOIL

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ARC1004SS242401	21-Aug-01	108194	U-238	RAD	714R5	0.67	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242401	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.402	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	ACID	T-HER	SW8151	0.0179	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.202	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.278	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0517	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.013	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	BARIUM	T-M	SW6010	0.93	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0099	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.0024	0.00	MG/L	B	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.00348	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0504	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	LEAD	T-M	SW6010	1.4	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.199	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.286	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1004SS242401	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.188	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00429	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.0494	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242401	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242401	21-Aug-01	108195	ZINC	T-M	SW6010	3.6	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	AC-227	T-RAD	714R5	0.93	0.55	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	AC-228	T-RAD	713R6	-16	30.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	AM-241	T-RAD	713R6	-4.3	9.40	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CO-60	T-RAD	713R6	0.8	6.90	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CS-137	T-RAD	713R6	-0.3	8.30	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	K-40	T-RAD	713R6	70	110.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	PA-231	T-RAD	713R6	0	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	PA-234M	T-RAD	713R6	-1100	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	RA-226	T-RAD	783R3	1	0.27	PCI/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	RA-228	T-RAD	724R6	1.14	0.47	PCI/L				TRUE	TRUE	WATER
ARC1004SS242400	21-Aug-01	108195	TH-228	T-RAD	714R5	0.09	0.19	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	TH-229	T-RAD	714R5	11.1	2.10	PCI/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	TH-230	T-RAD	714R5	0.23	0.11	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	TH-232	T-RAD	714R5	0.04	0.05	PCI/L		J		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	TH-234	T-RAD	713R6	-7	79.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	U-232	T-RAD	714R5	47.8	10.00	PCI/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	U-234	T-RAD	714R5	1.06	0.61	PCI/L		J		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	U-235	T-RAD	713R6	-4	34.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	U-235	T-RAD	714R5	0.17	0.23	PCI/L	LT	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	U-238	T-RAD	714R5	0.44	0.41	PCI/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108194	AC-227	RAD	714R5	0.31	0.13	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	AC-228	RAD	713R6	0.49	0.25	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	AM-241	RAD	713R6	-0.08	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	BI-214	RAD	713R6	0.69	0.25	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	CO-60	RAD	713R6	0.075	0.06	PCI/G	TI			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	CS-137	RAD	713R6	0.025	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	K-40	RAD	713R6	7.6	2.20	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	PA-231	RAD	713R6	-0.5	2.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	PA-234M	RAD	713R6	6	10.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	PB-212	RAD	713R6	0.67	0.20	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	PB-214	RAD	713R6	0.73	0.20	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	RA-226	RAD	783R3	0.71	0.21	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	TH-228	RAD	714R5	0.72	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	TH-229	RAD	714R5	2.68	0.60	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	TH-230	RAD	714R5	0.82	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	TH-232	RAD	714R5	0.65	0.11	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	TH-234	RAD	713R6	1.18	0.70	PCI/G	TI			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	TL-208	RAD	713R6	0.226	0.10	PCI/G				TRUE	TRUE	SOIL

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ARC1004SS242400	21-Aug-01	108194	TOTACTIV	RAD	704R5	8.9	4.20	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	U-232	RAD	714R5	2.79	0.69	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	U-234	RAD	714R5	0.82	0.18	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	U-235	RAD	713R6	0.22	0.33	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	U-235	RAD	714R5	0.06	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108194	U-238	RAD	714R5	0.8	0.18	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242400	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.291	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	ACID	T-HER	SW8151	0.0194	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.213	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.26	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0463	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.023	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	BARIUM	T-M	SW6010	0.83	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0049	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.00353	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0473	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	LEAD	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.215	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARC1004SS242400	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.308	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.195	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00394	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.049	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242400	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242400	21-Aug-01	108195	ZINC	T-M	SW6010	2.8	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	AC-227	T-RAD	714R5	0.43	0.33	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	AC-228	T-RAD	713R6	-6	31.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	AM-241	T-RAD	713R6	-1	8.80	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CO-60	T-RAD	713R6	4	8.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CS-137	T-RAD	713R6	3.7	7.70	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	K-40	T-RAD	713R6	-30	110.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	PA-231	T-RAD	713R6	0	210.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	PA-234M	T-RAD	713R6	1400	1500.00	PCI/L	TI			TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	RA-226	T-RAD	783R3	0.58	0.55	PCI/L				TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	RA-228	T-RAD	724R6	0.82	0.39	PCI/L	LT			TRUE	TRUE	WATER
ARC1004SS242041	21-Aug-01	108195	TH-228	T-RAD	714R5	0.024	0.07	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	TH-229	T-RAD	714R5	10.7	2.20	PCI/L				TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	TH-230	T-RAD	714R5	0.75	0.23	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	TH-232	T-RAD	714R5	0.011	0.05	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	TH-234	T-RAD	713R6	63	90.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	U-232	T-RAD	714R5	48.8	10.00	PCI/L				TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	U-234	T-RAD	714R5	0.31	0.35	PCI/L		J		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	U-235	T-RAD	713R6	11	35.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	U-235	T-RAD	714R5	-0.03	0.15	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	U-238	T-RAD	714R5	0.09	0.17	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108194	AC-227	RAD	714R5	0.32	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	AC-228	RAD	713R6	0.61	0.32	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	AM-241	RAD	713R6	0.06	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	BI-214	RAD	713R6	0.6	0.29	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	CO-60	RAD	713R6	0	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	CS-137	RAD	713R6	0.06	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	K-40	RAD	713R6	6.7	2.40	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	PA-231	RAD	713R6	-2.3	2.20	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	PA-234M	RAD	713R6	6	16.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	PB-212	RAD	713R6	0.64	0.21	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	PB-214	RAD	713R6	0.7	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	RA-226	RAD	783R3	0.76	0.22	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	TH-228	RAD	714R5	0.64	0.12	PCI/G	LT			TRUE	TRUE	SOIL

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ARC1004SS242041	21-Aug-01	108194	TH-229	RAD	714R5	2.48	0.61	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	TH-230	RAD	714R5	0.85	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	TH-232	RAD	714R5	0.58	0.11	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	TH-234	RAD	713R6	0.51	0.65	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	TL-208	RAD	713R6	0.17	0.12	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	TOTACTIV	RAD	704R5	8.2	4.60	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	U-232	RAD	714R5	2.88	0.67	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	U-234	RAD	714R5	0.64	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	U-235	RAD	713R6	0.12	0.38	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	U-235	RAD	714R5	0.056	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108194	U-238	RAD	714R5	0.73	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242041	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.373	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	ACID	T-HER	SW8151	0.0184	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.217	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.259	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0509	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.02	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	BARIUM	T-M	SW6010	0.59	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0036	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.003	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.049	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1004SS242041	21-Aug-01	108195	LEAD	T-M	SW6010	1.3	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.219	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.294	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.209	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00385	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.0502	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242041	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242041	21-Aug-01	108195	ZINC	T-M	SW6010	3.6	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	AC-227	T-RAD	714R5	1.23	0.61	PCI/L		J		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	AC-228	T-RAD	713R6	-26	29.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	AM-241	T-RAD	713R6	0	9.30	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CO-60	T-RAD	713R6	4.8	8.50	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CS-137	T-RAD	713R6	5.1	7.10	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	K-40	T-RAD	713R6	40	120.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	PA-231	T-RAD	713R6	20	210.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	PA-234M	T-RAD	713R6	100	1300.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	RA-226	T-RAD	783R3	0.03	0.43	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	RA-228	T-RAD	724R6	0.81	0.48	PCI/L	LT			TRUE	TRUE	WATER
ARC1004SS242040	21-Aug-01	108195	TH-228	T-RAD	714R5	0.08	0.16	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	TH-229	T-RAD	714R5	10.6	2.10	PCI/L				TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	TH-230	T-RAD	714R5	0.26	0.12	PCI/L	LT	R		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	TH-232	T-RAD	714R5	0.027	0.05	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	TH-234	T-RAD	713R6	-10	72.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	U-232	T-RAD	714R5	48.5	10.00	PCI/L				TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	U-234	T-RAD	714R5	0.91	0.59	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	U-235	T-RAD	713R6	9	34.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	U-235	T-RAD	714R5	0.06	0.18	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	U-238	T-RAD	714R5	0.79	0.53	PCI/L	LT			TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108194	AC-227	RAD	714R5	0.27	0.12	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	AC-228	RAD	713R6	0.48	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	AM-241	RAD	713R6	-0.05	0.20	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	BI-214	RAD	713R6	0.65	0.22	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	CO-60	RAD	713R6	0.047	0.06	PCI/G	TI			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	CS-137	RAD	713R6	0.078	0.06	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	K-40	RAD	713R6	7.6	1.90	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	PA-231	RAD	713R6	0.8	1.70	PCI/G	U	U		TRUE	TRUE	SOIL

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ARC1004SS242040	21-Aug-01	108194	PA-234M	RAD	713R6	5.5	8.50	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	PB-212	RAD	713R6	0.73	0.19	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	PB-214	RAD	713R6	0.75	0.20	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	RA-226	RAD	783R3	0.65	0.18	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	TH-228	RAD	714R5	0.64	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	TH-229	RAD	714R5	1.92	0.62	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	TH-230	RAD	714R5	0.86	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	TH-232	RAD	714R5	0.59	0.12	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	TH-234	RAD	713R6	0.94	0.82	PCI/G	TI			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	TL-208	RAD	713R6	0.178	0.09	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	TOTACTIV	RAD	704R5	8.9	4.30	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	U-232	RAD	714R5	3.39	0.66	PCI/G				TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	U-234	RAD	714R5	0.62	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	U-235	RAD	713R6	-0.05	0.36	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	U-235	RAD	714R5	0.049	0.03	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108194	U-238	RAD	714R5	0.68	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS242040	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.371	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	ACID	T-HER	SW8151	0.0189	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.248	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0517	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	BARIUM	T-M	SW6010	0.72	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0044	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.00312	0.00	MG/L			S	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0511	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1004SS242040	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	LEAD	T-M	SW6010	0.8	0.00	MG/L				TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.285	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00413	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.0498	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS242040	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS242040	21-Aug-01	108195	ZINC	T-M	SW6010	4	0.00	MG/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	AC-227	T-RAD	714R5	0.22	0.32	PCI/L	U	UJ		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	AC-228	T-RAD	713R6	-27	31.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	AM-241	T-RAD	713R6	11.8	9.40	PCI/L	TI			TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CO-60	T-RAD	713R6	2.2	9.80	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CS-137	T-RAD	713R6	-3.2	7.20	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	K-40	T-RAD	713R6	50	150.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	PA-231	T-RAD	713R6	210	210.00	PCI/L	TI			TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	PA-234M	T-RAD	713R6	600	1700.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	RA-226	T-RAD	783R3	1.02	0.71	PCI/L		J		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	RA-228	T-RAD	724R6	1.06	0.48	PCI/L				TRUE	TRUE	WATER
ARC1004SS120120	21-Aug-01	108195	TH-228	T-RAD	714R5	-0.11	0.23	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	TH-229	T-RAD	714R5	5.17	2.20	PCI/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	TH-230	T-RAD	714R5	0.15	0.12	PCI/L		J		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	TH-232	T-RAD	714R5	0.03	0.08	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	TH-234	T-RAD	713R6	31	80.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	U-232	T-RAD	714R5	50.4	9.90	PCI/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	U-234	T-RAD	714R5	0.98	0.59	PCI/L	LT	J		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	U-235	T-RAD	713R6	-8	42.00	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	U-235	T-RAD	714R5	-0.06	0.14	PCI/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	U-238	T-RAD	714R5	1.49	0.71	PCI/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108194	AC-227	RAD	714R5	0.25	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	AC-228	RAD	713R6	0.51	0.18	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	AM-241	RAD	713R6	0.04	0.18	PCI/G	U	U		TRUE	TRUE	SOIL

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ARC1004SS120120	21-Aug-01	108194	BI-212	RAD	713R6	0.89	0.58	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	BI-214	RAD	713R6	0.91	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	CO-60	RAD	713R6	-0.036	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	CS-137	RAD	713R6	0.091	0.06	PCI/G	TI			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	K-40	RAD	713R6	11.9	2.40	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	PA-231	RAD	713R6	0.4	1.60	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	PA-234M	RAD	713R6	-4.3	9.40	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	PB-212	RAD	713R6	0.77	0.19	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	PB-214	RAD	713R6	1.06	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	RA-226	RAD	783R3	0.85	0.21	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	TH-228	RAD	714R5	0.65	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	TH-229	RAD	714R5	2.17	0.63	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	TH-230	RAD	714R5	0.87	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	TH-232	RAD	714R5	0.67	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	TH-234	RAD	713R6	0.72	0.81	PCI/G	TI			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	TL-208	RAD	713R6	0.189	0.08	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	TOTACTIV	RAD	704R5	12.4	4.20	PCI/G		J		TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	U-232	RAD	714R5	2.88	0.67	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	U-234	RAD	714R5	1.16	0.22	PCI/G				TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	U-235	RAD	713R6	0.17	0.33	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	U-235	RAD	714R5	0.081	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108194	U-238	RAD	714R5	1	0.20	PCI/G	LT			TRUE	TRUE	SOIL
ARC1004SS120120	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.371	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	ACID	T-HER	SW8151	0.0217	0.00	MG/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.222	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.278	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.049	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.013	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	BARIUM	T-M	SW6010	1	0.00	MG/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0064	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.0026	0.00	MG/L	B	U		TRUE	TRUE	E

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ARC1004SS120120	21-Aug-01	108195	COPPER	T-M	SW6010	0.081	0.00	MG/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.00207	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0484	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	LEAD	T-M	SW6010	0.019	0.00	MG/L				TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.207	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.292	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.177	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00395	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.048	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1004SS120120	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1004SS120120	21-Aug-01	108195	ZINC	T-M	SW6010	0.42	0.00	MG/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	AC-227	T-RAD	714R5	4.4	1.40	PCI/L		J		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	AC-228	T-RAD	713R6	-6	32.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	AM-241	T-RAD	713R6	-9.3	9.80	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	CO-60	T-RAD	713R6	14.3	9.30	PCI/L	TI			TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	CS-137	T-RAD	713R6	-3.2	7.50	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	K-40	T-RAD	713R6	-10	150.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	PA-231	T-RAD	713R6	140	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	PA-234M	T-RAD	713R6	300	1600.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	RA-226	T-RAD	783R3	6.5	1.10	PCI/L		J		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	RA-228	T-RAD	724R6	3.9	3.40	PCI/L				TRUE	TRUE	WATER
ARC1003SS121320	19-Aug-01	108195	TH-228	T-RAD	714R5	0.15	0.25	PCI/L	U	UJ		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	TH-229	T-RAD	714R5	10.1	2.50	PCI/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	TH-230	T-RAD	714R5	8.6	1.60	PCI/L		J		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	TH-232	T-RAD	714R5	0.08	0.12	PCI/L	U	UJ		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	TH-234	T-RAD	713R6	-49	72.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	U-232	T-RAD	714R5	32.9	9.10	PCI/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	U-234	T-RAD	714R5	65.5	9.10	PCI/L				TRUE	TRUE	E

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ARC1003SS121320	19-Aug-01	108195	U-235	T-RAD	713R6	-16	36.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	U-235	T-RAD	714R5	3.92	0.99	PCI/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108195	U-238	T-RAD	714R5	66.2	9.20	PCI/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108194	AC-227	RAD	714R5	3.05	0.67	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	AC-228	RAD	713R6	0.67	0.27	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	AM-241	RAD	713R6	-0.01	0.18	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	BI-214	RAD	713R6	1.9	0.45	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	CO-60	RAD	713R6	-0.034	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	CS-137	RAD	713R6	0.119	0.08	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	K-40	RAD	713R6	10.1	2.90	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	PA-231	RAD	713R6	9.1	3.60	PCI/G	TI			TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	PA-234M	RAD	713R6	12	16.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	PB-212	RAD	713R6	0.76	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	PB-214	RAD	713R6	2.82	0.56	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	RA-226	RAD	783R3	3.17	0.53	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TH-227	RAD	713R6	3.72	0.97	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TH-228	RAD	714R5	0.74	0.23	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TH-229	RAD	714R5	4.06	1.30	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TH-230	RAD	714R5	60.2	8.00	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TH-232	RAD	714R5	0.91	0.21	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TH-234	RAD	713R6	6.4	1.60	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TL-208	RAD	713R6	0.28	0.13	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	TOTACTIV	RAD	704R5	117	13.00	PCI/G		J		TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	U-232	RAD	714R5	10.1	2.80	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	U-234	RAD	714R5	7.8	1.40	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	U-235	RAD	713R6	2.2	0.75	PCI/G	TI			TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	U-235	RAD	714R5	0.81	0.31	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108194	U-238	RAD	714R5	7.9	1.40	PCI/G				TRUE	TRUE	SOIL
ARC1003SS121320	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.363	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	ACID	T-HER	SW8151	0.0188	0.00	MG/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.218	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.295	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0507	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	BARIUM	T-M	SW6010	0.8	0.00	MG/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1003SS121320	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.017	0.00	MG/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.024	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00239	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0459	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	LEAD	T-M	SW6010	0.15	0.00	MG/L				TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.213	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.302	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.21	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00442	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0469	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS121320	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS121320	19-Aug-01	108180	ZINC	T-M	SW6010	11	0.00	MG/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	AC-227	T-RAD	714R5	0.75	0.53	PCI/L		J		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	AC-228	T-RAD	713R6	-20	31.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	AM-241	T-RAD	713R6	-2.6	9.10	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	CO-60	T-RAD	713R6	0	8.40	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	CS-137	T-RAD	713R6	1.9	8.20	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	K-40	T-RAD	713R6	0	140.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	PA-231	T-RAD	713R6	-180	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	PA-234M	T-RAD	713R6	-200	1400.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	RA-226	T-RAD	783R3	0.09	0.33	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	RA-228	T-RAD	724R6	0.84	0.48	PCI/L	LT			TRUE	TRUE	WATER
ARC1003SS120800	19-Aug-01	108195	TH-228	T-RAD	714R5	0.04	0.15	PCI/L	U	UJ		TRUE	TRUE	E

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ARC1003SS120800	19-Aug-01	108195	TH-229	T-RAD	714R5	11.9	2.10	PCI/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	TH-230	T-RAD	714R5	0.56	0.17	PCI/L	LT	R		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	TH-232	T-RAD	714R5	0.026	0.06	PCI/L	U	UJ		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	TH-234	T-RAD	713R6	22	84.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	U-232	T-RAD	714R5	40.6	11.00	PCI/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	U-234	T-RAD	714R5	67	11.00	PCI/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	U-235	T-RAD	713R6	12	37.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	U-235	T-RAD	714R5	3	1.20	PCI/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108195	U-238	T-RAD	714R5	69	11.00	PCI/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108194	AC-227	RAD	714R5	2.69	0.60	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	AC-228	RAD	713R6	0.44	0.15	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	AM-241	RAD	713R6	0.16	0.31	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	BI-214	RAD	713R6	1.24	0.26	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	CO-60	RAD	713R6	0.007	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	CS-137	RAD	713R6	0.115	0.06	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	K-40	RAD	713R6	9.5	2.00	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	PA-231	RAD	713R6	1.4	2.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	PA-234M	RAD	713R6	3.6	8.40	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	PB-212	RAD	713R6	0.62	0.16	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	PB-214	RAD	713R6	1.86	0.34	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	RA-226	RAD	783R3	2.85	0.49	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TH-227	RAD	713R6	1.61	0.49	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TH-228	RAD	714R5	0.63	0.19	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TH-229	RAD	714R5	4.07	1.30	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TH-230	RAD	714R5	50	6.60	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TH-232	RAD	714R5	0.53	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TH-234	RAD	713R6	3.2	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TL-208	RAD	713R6	0.157	0.07	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	TOTACTIV	RAD	704R5	110	12.00	PCI/G		J		TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	U-232	RAD	714R5	13.1	2.60	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	U-234	RAD	714R5	4.48	0.83	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	U-235	RAD	713R6	0.72	0.37	PCI/G	TI			TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	U-235	RAD	714R5	0.27	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108194	U-238	RAD	714R5	4.7	0.86	PCI/G				TRUE	TRUE	SOIL
ARC1003SS120800	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.332	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	ACID	T-HER	SW8151	0.0164	0.00	MG/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.209	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1003SS120800	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.29	0.00	MG/L	J	J		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.05	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	BARIUM	T-M	SW6010	0.55	0.00	MG/L				TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.0013	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0051	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	COPPER	T-M	SW6010	0.0052	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00201	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0463	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	LEAD	T-M	SW6010	0.008	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.22	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.278	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.015	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	SILVER	T-M	SW6010	0.0023	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.131	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00482	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0507	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS120800	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS120800	19-Aug-01	108180	ZINC	T-M	SW6010	0.42	0.00	MG/L				TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	AC-227	T-RAD	714R5	0.63	0.37	PCI/L	LT	J		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	AC-228	T-RAD	713R6	-12	31.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	AM-241	T-RAD	713R6	-2.7	9.10	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	CO-60	T-RAD	713R6	0	9.30	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	CS-137	T-RAD	713R6	4.4	8.70	PCI/L	U	U		TRUE	TRUE	E

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ARC1003SS061680	19-Aug-01	108195	K-40	T-RAD	713R6	-90	130.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	PA-231	T-RAD	713R6	-50	210.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	PA-234M	T-RAD	713R6	100	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	RA-226	T-RAD	783R3	1.27	0.30	PCI/L		J		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	RA-228	T-RAD	724R6	0.73	0.41	PCI/L	LT			TRUE	TRUE	WATER
ARC1003SS061680	19-Aug-01	108195	TH-228	T-RAD	714R5	0.021	0.06	PCI/L	U	UJ		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	TH-229	T-RAD	714R5	10.3	2.10	PCI/L				TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	TH-230	T-RAD	714R5	0.45	0.17	PCI/L	LT	R		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	TH-232	T-RAD	714R5	0.005	0.03	PCI/L	U	UJ		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	TH-234	T-RAD	713R6	30	87.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	U-232	T-RAD	714R5	49.4	10.00	PCI/L				TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	U-234	T-RAD	714R5	0.03	0.18	PCI/L	U	UJ		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	U-235	T-RAD	713R6	-5	35.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	U-235	T-RAD	714R5	-0.02	0.15	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108195	U-238	T-RAD	714R5	0.13	0.25	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061680	19-Aug-01	108194	AC-227	RAD	714R5	0.22	0.16	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	AC-228	RAD	713R6	0.38	0.32	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	AM-241	RAD	713R6	-0.006	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	CO-60	RAD	713R6	-0.012	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	CS-137	RAD	713R6	-0.071	0.09	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	K-40	RAD	713R6	3.8	1.80	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	PA-231	RAD	713R6	0.6	2.20	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	PA-234M	RAD	713R6	3	12.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	PB-212	RAD	713R6	0.24	0.14	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	RA-226	RAD	783R3	0.31	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	TH-228	RAD	714R5	0.46	0.12	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	TH-229	RAD	714R5	1.86	0.64	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	TH-230	RAD	714R5	0.53	0.11	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	TH-232	RAD	714R5	0.404	0.10	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	TH-234	RAD	713R6	0.85	0.71	PCI/G	TI			TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	TOTACTIV	RAD	704R5	10.6	4.40	PCI/G		J		TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	U-232	RAD	714R5	2.82	0.69	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	U-234	RAD	714R5	0.6	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	U-235	RAD	713R6	0.08	0.33	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	U-235	RAD	714R5	0.096	0.05	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061680	19-Aug-01	108194	U-238	RAD	714R5	0.5	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108195	AC-227	T-RAD	714R5	1.66	0.64	PCI/L		J		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	AC-228	T-RAD	713R6	1	31.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	AM-241	T-RAD	713R6	0.3	9.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	CO-60	T-RAD	713R6	6.6	8.90	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	CS-137	T-RAD	713R6	-1.3	8.60	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	K-40	T-RAD	713R6	-30	160.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	PA-231	T-RAD	713R6	-90	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	PA-234M	T-RAD	713R6	-700	1400.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	RA-226	T-RAD	783R3	8	1.10	PCI/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	RA-228	T-RAD	724R6	1.27	0.46	PCI/L				TRUE	TRUE	WATER
ARC1003SS061020	19-Aug-01	108195	TH-228	T-RAD	714R5	0.076	0.09	PCI/L	U	J		TRUE	TRUE	E

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ARC1003SS061020	19-Aug-01	108195	TH-229	T-RAD	714R5	10.7	2.10	PCI/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	TH-230	T-RAD	714R5	0.28	0.13	PCI/L	LT	J		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	TH-232	T-RAD	714R5	0.048	0.07	PCI/L	U	UJ		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	TH-234	T-RAD	713R6	53	73.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	U-232	T-RAD	714R5	28.3	12.00	PCI/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	U-234	T-RAD	714R5	109	18.00	PCI/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	U-235	T-RAD	713R6	-3	38.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	U-235	T-RAD	714R5	6.3	2.10	PCI/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108195	U-238	T-RAD	714R5	116	19.00	PCI/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108194	AC-227	RAD	714R5	2.65	0.51	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	AC-228	RAD	713R6	0.76	0.21	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	AM-241	RAD	713R6	0.31	0.42	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	BI-214	RAD	713R6	2.65	0.69	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	CO-60	RAD	713R6	0.011	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	CS-137	RAD	713R6	0.008	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	K-40	RAD	713R6	18.3	3.40	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	PA-231	RAD	713R6	3.8	1.60	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	PA-234M	RAD	713R6	9.6	7.10	PCI/G		U		TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	PB-212	RAD	713R6	1.06	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	PB-214	RAD	713R6	3.42	0.60	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	RA-226	RAD	783R3	4.08	0.56	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TH-227	RAD	713R6	3.15	0.73	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TH-228	RAD	714R5	1.21	0.23	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TH-229	RAD	714R5	5.08	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TH-230	RAD	714R5	54.7	6.90	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TH-232	RAD	714R5	1.16	0.21	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TH-234	RAD	713R6	9.5	2.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TL-208	RAD	713R6	0.265	0.08	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	TOTACTIV	RAD	704R5	110	12.00	PCI/G		J		TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	U-232	RAD	714R5	35.2	6.80	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	U-234	RAD	714R5	9.3	1.90	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	U-235	RAD	713R6	1.6	0.54	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	U-235	RAD	714R5	0.92	0.48	PCI/G	LT			TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108194	U-238	RAD	714R5	8.8	1.90	PCI/G				TRUE	TRUE	SOIL
ARC1003SS061020	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.329	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	ACID	T-HER	SW8151	0.0177	0.00	MG/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.202	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.197	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1003SS061020	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0502	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	BARIUM	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.016	0.00	MG/L				TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	COPPER	T-M	SW6010	0.0027	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00339	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0454	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.221	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.282	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.191	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00492	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0469	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS061020	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS061020	19-Aug-01	108180	ZINC	T-M	SW6010	0.33	0.00	MG/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	AC-227	T-RAD	714R5	17.9	3.70	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	AC-228	T-RAD	713R6	-2	32.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	AM-241	T-RAD	713R6	4.3	9.80	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	CO-60	T-RAD	713R6	-7.1	7.40	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	CS-137	T-RAD	713R6	-0.1	7.80	PCI/L	U	U		TRUE	TRUE	E

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ARC1003SS060960	19-Aug-01	108195	K-40	T-RAD	713R6	60	130.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	PA-231	T-RAD	713R6	-60	210.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	PA-234M	T-RAD	713R6	200	1600.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	RA-226	T-RAD	783R3	7.2	0.93	PCI/L		J		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	RA-228	T-RAD	724R6	1.49	0.50	PCI/L		J		TRUE	TRUE	WATER
ARC1003SS060960	19-Aug-01	108195	TH-228	T-RAD	714R5	0.3	0.31	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	TH-229	T-RAD	714R5	10	2.60	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	TH-230	T-RAD	714R5	23.9	3.90	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	TH-232	T-RAD	714R5	0.054	0.09	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	TH-234	T-RAD	713R6	66	74.00	PCI/L	TI			TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	U-232	T-RAD	714R5	9.04	12.00	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	U-234	T-RAD	714R5	415	65.00	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	U-235	T-RAD	713R6	2	43.00	PCI/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	U-235	T-RAD	714R5	18.7	4.50	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108195	U-238	T-RAD	714R5	406	64.00	PCI/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108194	AC-227	RAD	714R5	9.2	1.40	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	AC-228	RAD	713R6	1.11	0.28	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	AM-241	RAD	713R6	0.3	0.41	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	BI-214	RAD	713R6	5.9	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	CO-60	RAD	713R6	-0.06	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	CS-137	RAD	713R6	-0.008	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	K-40	RAD	713R6	18.3	3.40	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	PA-231	RAD	713R6	20	4.30	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	PA-234M	RAD	713R6	32	14.00	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	PB-212	RAD	713R6	1.05	0.26	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	PB-214	RAD	713R6	9.3	1.60	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	RA-226	RAD	783R3	12.5	1.40	PCI/G	Y1			TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TH-227	RAD	713R6	12.3	2.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TH-228	RAD	714R5	1.08	0.24	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TH-229	RAD	714R5	5.16	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TH-230	RAD	714R5	221	28.00	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TH-232	RAD	714R5	1.05	0.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TH-234	RAD	713R6	24.8	4.50	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TL-208	RAD	713R6	0.252	0.09	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	TOTACTIV	RAD	704R5	356	37.00	PCI/G		J		TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	U-232	RAD	714R5	33.2	6.50	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	U-234	RAD	714R5	19	3.10	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	U-235	RAD	713R6	3.59	0.82	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	U-235	RAD	714R5	1.27	0.51	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108194	U-238	RAD	714R5	19.3	3.20	PCI/G				TRUE	TRUE	SOIL
ARC1003SS060960	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.326	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1003SS060960	19-Aug-01	108180	ACID	T-HER	SW8151	0.0177	0.00	MG/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.282	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0488	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.017	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	BARIUM	T-M	SW6010	1	0.00	MG/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.1	0.00	MG/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.012	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	COPPER	T-M	SW6010	0.15	0.00	MG/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00166	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.048	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	LEAD	T-M	SW6010	0.12	0.00	MG/L				TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.207	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.286	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.017	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00434	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0508	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1003SS060960	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1003SS060960	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1003SS060960	19-Aug-01	108180	ZINC	T-M	SW6010	1.5	0.00	MG/L				TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.342	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	ACID	T-HER	SW8151	0.0173	0.00	MG/L				TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.217	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.284	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0473	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.023	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	BARIUM	T-M	SW6010	0.68	0.00	MG/L				TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.001	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.03	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00244	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0456	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	LEAD	T-M	SW6010	0.26	0.00	MG/L				TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.204	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.292	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1002SS121320	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.213	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00451	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0454	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1002SS121320	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1002SS121320	19-Aug-01	108180	ZINC	T-M	SW6010	11	0.00	MG/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	AC-227	T-RAD	714R5	0.78	0.41	PCI/L	LT			TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	AC-228	T-RAD	713R6	0	33.00	PCI/L	U			TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	AM-241	T-RAD	713R6	3	10.00	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	CO-60	T-RAD	713R6	2.4	8.90	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	CS-137	T-RAD	713R6	-4.1	8.50	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	K-40	T-RAD	713R6	-10	110.00	PCI/L	U			TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	PA-231	T-RAD	713R6	-20	230.00	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	PA-234M	T-RAD	713R6	-600	1100.00	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	RA-226	T-RAD	783R3	15.4	2.10	PCI/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	RA-228	T-RAD	724R6	1.54	0.72	PCI/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	TH-228	T-RAD	714R5	-0.07	0.17	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	TH-229	T-RAD	714R5	9.38	2.00	PCI/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	TH-230	T-RAD	714R5	0.38	0.14	PCI/L	LT	J		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	TH-232	T-RAD	714R5	0.039	0.06	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	TH-234	T-RAD	713R6	-15	80.00	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	U-232	T-RAD	714R5	45	10.00	PCI/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	U-234	T-RAD	714R5	36.5	6.20	PCI/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	U-235	T-RAD	713R6	17	36.00	PCI/L	U	U		TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	U-235	T-RAD	714R5	2.32	0.98	PCI/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108180	U-238	T-RAD	714R5	35.8	6.10	PCI/L				TRUE	TRUE	E
ARC1002SS061020	19-Aug-01	108179	AC-227	RAD	714R5	4.88	0.81	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	AC-228	RAD	713R6	0.97	0.29	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	AM-241	RAD	713R6	0.22	0.32	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	BI-212	RAD	713R6	0.88	0.79	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	BI-214	RAD	713R6	3.67	0.66	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	CO-60	RAD	713R6	0.044	0.05	PCI/G	TI			TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	CS-137	RAD	713R6	0.002	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	K-40	RAD	713R6	12.9	2.60	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	PA-231	RAD	713R6	7.7	2.60	PCI/G		J		TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	PA-234M	RAD	713R6	15	14.00	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	PB-212	RAD	713R6	0.87	0.21	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	PB-214	RAD	713R6	5.22	0.90	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	RA-226	RAD	783R3	6.47	0.79	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	TH-227	RAD	713R6	4.9	1.00	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	TH-228	RAD	714R5	0.9	0.20	PCI/G	LT			TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	TH-229	RAD	714R5	5.34	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	TH-230	RAD	714R5	106	13.00	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	TH-232	RAD	714R5	0.93	0.18	PCI/G	LT			TRUE	TRUE	SOIL

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ARC1002SS061020	19-Aug-01	108179	TH-234	RAD	713R6	7.7	1.90	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	TL-208	RAD	713R6	0.221	0.09	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	TOTACTIV	RAD	704R5	196	21.00	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	U-232	RAD	714R5	11.7	2.70	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	U-234	RAD	714R5	8.6	1.50	PCI/G				TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	U-235	RAD	713R6	2.44	0.74	PCI/G	TI			TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	U-235	RAD	714R5	0.52	0.23	PCI/G	LT			TRUE	TRUE	SOIL
ARC1002SS061020	19-Aug-01	108179	U-238	RAD	714R5	8.2	1.40	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108180	AC-227	T-RAD	714R5	0.21	0.50	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	AC-228	T-RAD	713R6	-21	33.00	PCI/L	U			TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	AM-241	T-RAD	713R6	6.1	9.60	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CO-60	T-RAD	713R6	-3.2	8.10	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CS-137	T-RAD	713R6	-5.8	8.80	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	K-40	T-RAD	713R6	90	120.00	PCI/L	U			TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	PA-231	T-RAD	713R6	-120	210.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	PA-234M	T-RAD	713R6	-700	1600.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	RA-226	T-RAD	783R3	-0.01	0.13	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	RA-228	T-RAD	724R6	0.42	0.44	PCI/L				TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TH-228	T-RAD	714R5	-0.14	0.16	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TH-229	T-RAD	714R5	9.48	2.50	PCI/L				TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TH-230	T-RAD	714R5	0.15	0.14	PCI/L		J		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TH-232	T-RAD	714R5	-0.006	0.07	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TH-234	T-RAD	713R6	-65	84.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	U-232	T-RAD	714R5	48.2	8.80	PCI/L				TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	U-234	T-RAD	714R5	3.14	0.77	PCI/L				TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	U-235	T-RAD	713R6	-1	38.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	U-235	T-RAD	714R5	0.36	0.24	PCI/L	LT			TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	U-238	T-RAD	714R5	2.43	0.65	PCI/L				TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108179	AC-227	RAD	714R5	0.29	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	AC-228	RAD	713R6	0.43	0.30	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	AM-241	RAD	713R6	-0.05	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	BI-214	RAD	713R6	0.57	0.24	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	CO-60	RAD	713R6	-0.049	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	CS-137	RAD	713R6	0.034	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	K-40	RAD	713R6	3.7	1.80	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	PA-231	RAD	713R6	-3.6	2.50	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	PA-234M	RAD	713R6	2	13.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	PB-212	RAD	713R6	0.41	0.19	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	PB-214	RAD	713R6	0.69	0.22	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	RA-226	RAD	783R3	0.62	0.19	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	TH-228	RAD	714R5	0.48	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	TH-229	RAD	714R5	2.08	0.63	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	TH-230	RAD	714R5	0.87	0.16	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	TH-232	RAD	714R5	0.435	0.10	PCI/G	LT			TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	TH-234	RAD	713R6	0.8	1.20	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	TL-208	RAD	713R6	0.32	0.13	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	TOTACTIV	RAD	704R5	16.6	5.10	PCI/G		J		TRUE	TRUE	SOIL

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ARC1001SS120960	19-Aug-01	108179	U-232	RAD	714R5	2.79	0.68	PCI/G				TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	U-234	RAD	714R5	0.65	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	U-235	RAD	713R6	0.01	0.34	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	U-235	RAD	714R5	0.058	0.04	PCI/G	LT	J		TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108179	U-238	RAD	714R5	0.79	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARC1001SS120960	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.374	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	ACID	T-HER	SW8151	0.0158	0.00	MG/L				TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.298	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0468	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	BARIUM	T-M	SW6010	0.43	0.00	MG/L				TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0035	0.00	MG/L	B	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00147	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0491	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1001SS120960	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.299	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.187	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00447	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0489	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS120960	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS120960	19-Aug-01	108180	ZINC	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	AC-227	T-RAD	714R5	1.29	0.37	PCI/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	AC-228	T-RAD	713R6	5	35.00	PCI/L	U			TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	AM-241	T-RAD	713R6	8	9.50	PCI/L	TI			TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CO-60	T-RAD	713R6	0	9.30	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CS-137	T-RAD	713R6	-1.3	9.50	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	K-40	T-RAD	713R6	130	160.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	PA-231	T-RAD	713R6	30	220.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	PA-234M	T-RAD	713R6	400	1400.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	RA-226	T-RAD	783R3	24.1	2.50	PCI/L	Y1			TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	RA-228	T-RAD	724R6	1.18	0.61	PCI/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TH-228	T-RAD	714R5	-0.06	0.13	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TH-229	T-RAD	714R5	9.94	2.00	PCI/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TH-230	T-RAD	714R5	0.55	0.15	PCI/L	LT	J		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TH-232	T-RAD	714R5	0	0.05	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TH-234	T-RAD	713R6	5	92.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	U-232	T-RAD	714R5	32.4	11.00	PCI/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	U-234	T-RAD	714R5	79	13.00	PCI/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	U-235	T-RAD	713R6	14	39.00	PCI/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	U-235	T-RAD	714R5	5.7	1.90	PCI/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	U-238	T-RAD	714R5	85	14.00	PCI/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108179	AC-227	RAD	714R5	4.79	0.82	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	AC-228	RAD	713R6	0.71	0.33	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	AM-241	RAD	713R6	-0.11	0.22	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	BI-214	RAD	713R6	3.42	0.69	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	CO-60	RAD	713R6	0.055	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	CS-137	RAD	713R6	-0.002	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	K-40	RAD	713R6	10.6	2.70	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	PA-231	RAD	713R6	6.2	2.90	PCI/G	TI	J		TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	PA-234M	RAD	713R6	11	13.00	PCI/G	TI			TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	PB-212	RAD	713R6	0.8	0.24	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	PB-214	RAD	713R6	3.95	0.74	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	RA-226	RAD	783R3	5.47	0.69	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	TH-227	RAD	713R6	3.9	1.00	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	TH-228	RAD	714R5	0.83	0.21	PCI/G	LT			TRUE	TRUE	SOIL

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ARC1001SS060320	19-Aug-01	108179	TH-229	RAD	714R5	5	1.20	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	TH-230	RAD	714R5	112	14.00	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	TH-232	RAD	714R5	0.82	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	TH-234	RAD	713R6	6.8	1.70	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	TL-208	RAD	713R6	0.19	0.10	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	TOTACTIV	RAD	704R5	222	23.00	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	U-232	RAD	714R5	12.6	2.70	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	U-234	RAD	714R5	11.2	1.80	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	U-235	RAD	713R6	2.18	0.75	PCI/G	TI			TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	U-235	RAD	714R5	0.55	0.23	PCI/G	LT			TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108179	U-238	RAD	714R5	9.9	1.60	PCI/G				TRUE	TRUE	SOIL
ARC1001SS060320	19-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.309	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	ACID	T-HER	SW8151	0.0168	0.00	MG/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.204	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.214	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0459	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	BARIUM	T-M	SW6010	0.72	0.00	MG/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CADMIUM	T-M	SW6010	0.011	0.00	MG/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	COPPER	T-M	SW6010	0.0087	0.00	MG/L	B	B		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00508	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.046	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARC1001SS060320	19-Aug-01	108180	LEAD	T-M	SW6010	0.02	0.00	MG/L				TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.224	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.291	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00462	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0506	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARC1001SS060320	19-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARC1001SS060320	19-Aug-01	108180	ZINC	T-M	SW6010	0.64	0.00	MG/L				TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	AC-227	T-RAD	714R5	0.2	0.20	PCI/L		J		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	AC-228	T-RAD	713R6	15	30.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	AM-241	T-RAD	713R6	4.3	8.80	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CO-60	T-RAD	713R6	0	8.70	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CS-137	T-RAD	713R6	-1.6	7.80	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	K-40	T-RAD	713R6	20	110.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	PA-231	T-RAD	713R6	20	210.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	PA-234M	T-RAD	713R6	100	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	RA-226	T-RAD	783R3	0.83	0.24	PCI/L	LT			TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	RA-228	T-RAD	724R6	0.93	0.43	PCI/L	LT			TRUE	TRUE	WATER
ARA2002SS242281	21-Aug-01	108195	TH-228	T-RAD	714R5	0	0.15	PCI/L	U	UJ		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	TH-229	T-RAD	714R5	12.2	2.00	PCI/L				TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	TH-230	T-RAD	714R5	0.239	0.09	PCI/L	LT	J		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	TH-232	T-RAD	714R5	0.031	0.04	PCI/L		J		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	TH-234	T-RAD	713R6	50	94.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	U-232	T-RAD	714R5	51.1	10.00	PCI/L				TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	U-234	T-RAD	714R5	2.6	1.00	PCI/L				TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	U-235	T-RAD	713R6	-12	38.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	U-235	T-RAD	714R5	0.24	0.32	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	U-238	T-RAD	714R5	2.02	0.89	PCI/L				TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108194	AC-227	RAD	714R5	0.58	0.21	PCI/G	LT			TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	AC-228	RAD	713R6	1.2	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	AM-241	RAD	713R6	-0.01	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	BI-212	RAD	713R6	2.1	1.20	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	BI-214	RAD	713R6	1.51	0.38	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	CO-60	RAD	713R6	0.031	0.09	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	CS-137	RAD	713R6	0.026	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	K-40	RAD	713R6	9.4	2.80	PCI/G				TRUE	TRUE	SOIL

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ARA2002SS242281	21-Aug-01	108194	PA-231	RAD	713R6	-0.8	2.20	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	PA-234M	RAD	713R6	1	16.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	PB-212	RAD	713R6	2.04	0.41	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	PB-214	RAD	713R6	1.58	0.35	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	RA-226	RAD	783R3	1.63	0.30	PCI/G	Y1			TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	TH-228	RAD	714R5	1.95	0.31	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	TH-229	RAD	714R5	1.93	0.64	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	TH-230	RAD	714R5	1.91	0.30	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	TH-232	RAD	714R5	1.71	0.27	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	TH-234	RAD	713R6	1.43	0.82	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	TL-208	RAD	713R6	0.57	0.16	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	TOTACTIV	RAD	704R5	26.4	4.90	PCI/G		J		TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	U-232	RAD	714R5	2.26	0.72	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	U-234	RAD	714R5	1.84	0.35	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	U-235	RAD	713R6	0.48	0.39	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	U-235	RAD	714R5	0.106	0.06	PCI/G	LT			TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108194	U-238	RAD	714R5	2.12	0.39	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242281	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.408	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	ACID	T-HER	SW8151	0.0185	0.00	MG/L				TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.218	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.289	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0522	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.026	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	BARIUM	T-M	SW6010	0.96	0.00	MG/L				TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0018	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.004	0.00	MG/L	B	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.00318	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0511	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA2002SS242281	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.209	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.308	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.021	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.198	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00388	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.0483	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242281	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242281	21-Aug-01	108195	ZINC	T-M	SW6010	0.25	0.00	MG/L				TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	AC-227	T-RAD	714R5	0.31	0.24	PCI/L		J		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	AC-228	T-RAD	713R6	-15	30.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	AM-241	T-RAD	713R6	0.7	9.20	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	CO-60	T-RAD	713R6	-4	13.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	CS-137	T-RAD	713R6	5.2	8.50	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	K-40	T-RAD	713R6	30	170.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	PA-231	T-RAD	713R6	100	230.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	PA-234M	T-RAD	713R6	400	1300.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	RA-226	T-RAD	783R3	0.63	0.26	PCI/L	LT			TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	RA-228	T-RAD	724R6	1.42	0.51	PCI/L				TRUE	TRUE	WATER
ARA2002SS242280	21-Aug-01	108195	TH-228	T-RAD	714R5	-0.02	0.12	PCI/L	U	UJ		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	TH-229	T-RAD	714R5	11.3	2.00	PCI/L				TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	TH-230	T-RAD	714R5	0.087	0.06	PCI/L	LT	J		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	TH-232	T-RAD	714R5	0.032	0.05	PCI/L	U	UJ		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	TH-234	T-RAD	713R6	-18	72.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	U-232	T-RAD	714R5	41.9	11.00	PCI/L				TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	U-234	T-RAD	714R5	3.3	1.30	PCI/L				TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	U-235	T-RAD	713R6	-29	42.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	U-235	T-RAD	714R5	0.21	0.30	PCI/L	LT	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	U-238	T-RAD	714R5	2.6	1.10	PCI/L				TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108194	AC-227	RAD	714R5	0.79	0.22	PCI/G	LT			TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	AC-228	RAD	713R6	1.65	0.35	PCI/G				TRUE	TRUE	SOIL

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ARA2002SS242280	21-Aug-01	108194	AM-241	RAD	713R6	-0.03	0.32	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	BI-212	RAD	713R6	1.92	0.84	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	BI-214	RAD	713R6	1.53	0.31	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	CO-60	RAD	713R6	-0.024	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	CS-137	RAD	713R6	-0.061	0.05	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	K-40	RAD	713R6	8.7	1.90	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	PA-231	RAD	713R6	-2.5	2.70	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	PA-234M	RAD	713R6	5.5	8.60	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	PB-212	RAD	713R6	1.98	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	PB-214	RAD	713R6	1.98	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	RA-226	RAD	783R3	1.93	0.33	PCI/G	Y2			TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	TH-228	RAD	714R5	1.73	0.29	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	TH-229	RAD	714R5	2.07	0.64	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	TH-230	RAD	714R5	1.83	0.29	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	TH-232	RAD	714R5	1.75	0.28	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	TH-234	RAD	713R6	1.8	1.10	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	TL-208	RAD	713R6	0.58	0.13	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	TOTACTIV	RAD	704R5	22.2	4.90	PCI/G		J		TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	U-232	RAD	714R5	3.91	0.90	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	U-234	RAD	714R5	2.03	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	U-235	RAD	713R6	0.14	0.38	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	U-235	RAD	714R5	0.143	0.07	PCI/G	LT			TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108194	U-238	RAD	714R5	2.06	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2002SS242280	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.405	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	ACID	T-HER	SW8151	0.0187	0.00	MG/L				TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.227	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.308	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0499	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.019	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	BARIUM	T-M	SW6010	1	0.00	MG/L				TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0012	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA2002SS242280	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.0038	0.00	MG/L	B	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	COPPER	T-M	SW6010	0.0028	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.00333	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0474	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.218	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.315	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.016	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.212	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00375	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.0446	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS242280	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS242280	21-Aug-01	108195	ZINC	T-M	SW6010	0.27	0.00	MG/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	AC-227	T-RAD	714R5	0.52	0.29	PCI/L	LT			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	AC-227	T-RAD	714R6	0.04	0.10	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Ac-227		714R6	0.04	0.10	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	AC-228	T-RAD	713R6	-16	32.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	AC-228	T-RAD	713R6	-9	33.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Ac-228		713R6	-9	33.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	AM-241	T-RAD	713R6	-1.3	8.60	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	AM-241	T-RAD	713R6	-3.2	9.80	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Am-241		713R6	-3.2	9.80	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	CO-60	T-RAD	713R6	7	12.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	CO-60	T-RAD	713R6	-4.9	8.70	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Co-60		713R6	-4.9	8.70	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	CS-137	T-RAD	713R6	-5.8	8.80	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	CS-137	T-RAD	713R6	-4.5	9.30	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Cs-137		713R6	-4.5	9.30	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	K-40	T-RAD	713R6	90	140.00	PCI/L	U	U		TRUE	TRUE	E

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ARA2002SS180300	18-Aug-01	111157	K-40	T-RAD	713R6	-20	120.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	PA-231	T-RAD	713R6	-80	230.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	PA-231	T-RAD	713R6	0	220.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Pa-231		713R6	0	220.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	PA-234M	T-RAD	713R6	1700	1800.00	PCI/L	TI			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	PA-234M	T-RAD	713R6	200	1400.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Pa-234m		713R6	200	1400.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	RA-226	T-RAD	783R3	20.3	2.20	PCI/L	Y1			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	RA-226	T-RAD	713R6	70	180.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	RA-226	T-RAD	783R3	0.25	0.22	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Ra-226		713R6	70	180.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	111157	Ra-226		783R3	0.25	0.22	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	RA-228	T-RAD	724R6	1.2	0.61	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Ra-228		724R6	0.41	0.60	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	TH-228	T-RAD	714R5	-0.15	0.19	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	TH-228	T-RAD	714R6	0.03	0.11	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Th-228		714R6	0.03	0.11	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	TH-229	T-RAD	714R5	8.56	2.10	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	TH-229	T-RAD	714R6	6.06	1.20	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Th-229		714R6	6.06	1.20	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	TH-230	T-RAD	714R5	0.55	0.18	PCI/L	LT	J		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	TH-230	T-RAD	714R6	0.333	0.09	PCI/L	LT			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Th-230		714R6	0.333	0.09	PCI/L	LT			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	TH-232	T-RAD	714R5	0.07	0.06	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	TH-232	T-RAD	714R6	0.009	0.02	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Th-232		714R6	0.009	0.02	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	TH-234	T-RAD	713R6	-5	85.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	TH-234	T-RAD	713R6	85	90.00	PCI/L	TI			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	Th-234		713R6	85	90.00	PCI/L	TI			TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	111157	TotActiv		704R5	111	19.00	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS180300	18-Aug-01	108180	U-232	T-RAD	714R5	37.5	11.00	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	U-232	T-RAD	714R6	24.9	5.30	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	U-234	T-RAD	714R5	80	13.00	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	U-234	T-RAD	714R6	33.4	5.10	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	U-235	T-RAD	713R6	-9	41.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	U-235	T-RAD	714R5	4.9	1.60	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	U-235	T-RAD	713R6	9	38.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	U-235	T-RAD	714R6	1.45	0.52	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	U-238	T-RAD	714R5	72	12.00	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	111157	U-238	T-RAD	714R6	34.5	5.20	PCI/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108179	AC-227	RAD	714R5	4.29	0.76	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	AC-228	RAD	713R6	0.71	0.42	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	AM-241	RAD	713R6	0.18	0.66	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	BI-214	RAD	713R6	6.6	1.70	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	CO-60	RAD	713R6	-0.01	0.13	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	CS-137	RAD	713R6	-0.04	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	K-40	RAD	713R6	13.4	3.50	PCI/G				TRUE	TRUE	SOIL

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ARA2002SS180300	18-Aug-01	108179	PA-231	RAD	713R6	12.1	5.00	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	PA-234M	RAD	713R6	20	21.00	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	PB-212	RAD	713R6	1.24	0.35	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	PB-214	RAD	713R6	8.7	1.50	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	RA-226	RAD	783R3	12.2	1.40	PCI/G	Y1			TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TH-227	RAD	713R6	4.7	1.20	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TH-228	RAD	714R5	0.99	0.21	PCI/G	LT			TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TH-229	RAD	714R5	4.93	1.20	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TH-230	RAD	714R5	117	15.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TH-232	RAD	714R5	1.18	0.22	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TH-234	RAD	713R6	9.9	3.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TL-208	RAD	713R6	0.32	0.14	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	TOTACTIV	RAD	704R5	235	24.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	U-232	RAD	714R5	30.3	7.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	U-234	RAD	714R5	12.2	2.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	U-235	RAD	713R6	1.45	0.71	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	U-235	RAD	714R5	1.11	0.55	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108179	U-238	RAD	714R5	12	2.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS180300	18-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.35	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	ACID	T-HER	SW8151	0.0182	0.00	MG/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.223	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.298	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0503	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	BARIUM	T-M	SW6010	1.4	0.00	MG/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	CADMIUM	T-M	SW6010	0.0042	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.0036	0.00	MG/L	J	J		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	COPPER	T-M	SW6010	0.012	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00434	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0469	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA2002SS180300	18-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	LEAD	T-M	SW6010	0.018	0.00	MG/L				TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.207	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.301	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.204	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00426	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0472	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS180300	18-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS180300	18-Aug-01	108180	ZINC	T-M	SW6010	2.1	0.00	MG/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	AC-227	T-RAD	714R5	0.02	0.24	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	AC-227	T-RAD	714R6	0.02	0.10	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Ac-227		714R6	0.02	0.10	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	AC-228	T-RAD	713R6	-32	33.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	AC-228	T-RAD	713R6	3	36.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Ac-228		713R6	3	36.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	AM-241	T-RAD	713R6	-1.5	9.20	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	AM-241	T-RAD	713R6	-9.1	8.90	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Am-241		713R6	-9.1	8.90	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	CO-60	T-RAD	713R6	-2.4	9.40	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	CO-60	T-RAD	713R6	3	10.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Co-60		713R6	3	10.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	CS-137	T-RAD	713R6	-4.7	7.40	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	CS-137	T-RAD	713R6	5.2	8.30	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Cs-137		713R6	5.2	8.30	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	K-40	T-RAD	713R6	10	100.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	K-40	T-RAD	713R6	-80	150.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	PA-231	T-RAD	713R6	80	210.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	PA-231	T-RAD	713R6	-50	230.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Pa-231		713R6	-50	230.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	PA-234M	T-RAD	713R6	1100	1200.00	PCI/L	TI			TRUE	TRUE	E

SAMPLE_NO	COLL_DATE	Lab SDG	PARAMETER	FRACTION	METHOD	LAB_RESULT	UNCERTNTY	UNITS	LAB_ QUAL	SAIC DATA_ QUAL	COMMENTS	VALIDATED	OK_TO_USE in Reports	MATRIX
ARA2002SS081620	18-Aug-01	111157	PA-234M	T-RAD	713R6	600	1400.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Pa-234m		713R6	600	1400.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	RA-226	T-RAD	783R3	3.91	0.52	PCI/L	Y1			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	RA-226	T-RAD	713R6	20	140.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	RA-226	T-RAD	783R3	0.02	0.31	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Ra-226		713R6	20	140.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	111157	Ra-226		783R3	0.02	0.31	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	RA-228	T-RAD	724R6	0.73	0.52	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Ra-228		724R6	0.14	0.56	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	TH-228	T-RAD	714R5	0.11	0.16	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	TH-228	T-RAD	714R6	0.01	0.12	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Th-228		714R6	0.01	0.12	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	TH-229	T-RAD	714R5	10.7	2.00	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	TH-229	T-RAD	714R6	5.49	1.20	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Th-229		714R6	5.49	1.20	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	TH-230	T-RAD	714R5	0.28	0.11	PCI/L	LT	J		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	TH-230	T-RAD	714R6	0.145	0.06	PCI/L	LT			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Th-230		714R6	0.145	0.06	PCI/L	LT			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	TH-232	T-RAD	714R5	0	0.03	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	TH-232	T-RAD	714R6	0	0.03	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Th-232		714R6	0	0.03	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	TH-234	T-RAD	713R6	24	81.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	TH-234	T-RAD	713R6	-53	71.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	Th-234		713R6	-53	71.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	111157	TotActiv		704R5	32	15.00	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS081620	18-Aug-01	108180	U-232	T-RAD	714R5	49	10.00	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	U-232	T-RAD	714R6	27.1	5.20	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	U-234	T-RAD	714R5	8.5	2.00	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	U-234	T-RAD	714R6	3.15	0.81	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	U-235	T-RAD	713R6	2	36.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	U-235	T-RAD	714R5	0.31	0.34	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	U-235	T-RAD	713R6	7	30.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	U-235	T-RAD	714R6	0.24	0.20	PCI/L	LT			TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	U-238	T-RAD	714R5	6.7	1.80	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	111157	U-238	T-RAD	714R6	2.24	0.65	PCI/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108179	AC-227	RAD	714R5	1.26	0.28	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	AC-228	RAD	713R6	1.53	0.47	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	AM-241	RAD	713R6	0.02	0.17	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	BI-214	RAD	713R6	5.12	0.95	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	CO-60	RAD	713R6	-0.034	0.09	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	CS-137	RAD	713R6	0.05	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	K-40	RAD	713R6	8.2	2.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	PA-231	RAD	713R6	1.1	4.40	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	PA-234M	RAD	713R6	7	14.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	PB-212	RAD	713R6	2	0.42	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	PB-214	RAD	713R6	5.4	0.96	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	RA-226	RAD	783R3	6.01	0.76	PCI/G	Y2	J		TRUE	TRUE	SOIL

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ARA2002SS081620	18-Aug-01	108179	TH-228	RAD	714R5	1.87	0.30	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	TH-229	RAD	714R5	2.06	0.63	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	TH-230	RAD	714R5	11.7	1.60	PCI/G		J		TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	TH-232	RAD	714R5	1.68	0.27	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	TH-234	RAD	713R6	4.8	1.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	TL-208	RAD	713R6	0.69	0.18	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	TOTACTIV	RAD	704R5	41	6.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	U-232	RAD	714R5	5.68	1.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	U-234	RAD	714R5	5.06	0.85	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	U-235	RAD	713R6	0.37	0.37	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	U-235	RAD	714R5	0.39	0.15	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108179	U-238	RAD	714R5	5.15	0.86	PCI/G				TRUE	TRUE	SOIL
ARA2002SS081620	18-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.363	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	ACID	T-HER	SW8151	0.0189	0.00	MG/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.226	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.287	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0506	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	ARSENIC	T-M	SW6010	0.02	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	BARIUM	T-M	SW6010	1.5	0.00	MG/L				TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	CADMIUM	T-M	SW6010	0.0016	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00351	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0485	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA2002SS081620	18-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.295	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.227	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00417	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0472	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS081620	18-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS081620	18-Aug-01	108180	ZINC	T-M	SW6010	0.73	0.00	MG/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	AC-227	T-RAD	714R5	1.43	0.44	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	AC-227	T-RAD	714R6	0.81	0.22	PCI/L	LT			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Ac-227		714R6	0.81	0.22	PCI/L	LT			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	AC-228	T-RAD	713R6	7	32.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	AC-228	T-RAD	713R6	-5	40.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Ac-228		713R6	-5	40.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	AM-241	T-RAD	713R6	10	10.00	PCI/L	TI			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	AM-241	T-RAD	713R6	5.3	9.20	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Am-241		713R6	5.3	9.20	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	CO-60	T-RAD	713R6	5.6	8.90	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	CO-60	T-RAD	713R6	-3	12.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Co-60		713R6	-3	12.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	CS-137	T-RAD	713R6	0.6	8.70	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	CS-137	T-RAD	713R6	-0.7	9.10	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Cs-137		713R6	-0.7	9.10	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	K-40	T-RAD	713R6	-60	130.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	K-40	T-RAD	713R6	-50	160.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	PA-231	T-RAD	713R6	-60	240.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	PA-231	T-RAD	713R6	-100	220.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Pa-231		713R6	-100	220.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	PA-234M	T-RAD	713R6	400	1200.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	PA-234M	T-RAD	713R6	-300	1800.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Pa-234m		713R6	-300	1800.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	PB-214	T-RAD	713R6	50	17.00	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	RA-226	T-RAD	783R3	210	21.00	PCI/L	Y1			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	RA-226	T-RAD	713R6	-70	160.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	RA-226	T-RAD	783R3	11.7	1.60	PCI/L				TRUE	TRUE	E

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ARA2002SS080080	18-Aug-01	111157	Ra-226		713R6	-70	160.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	111157	Ra-226		783R3	11.7	1.60	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	RA-228	T-RAD	724R6	1.61	0.57	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Ra-228		724R6	0.63	0.51	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	TH-228	T-RAD	714R5	0.07	0.14	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	TH-228	T-RAD	714R6	0.01	0.11	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Th-228		714R6	0.01	0.11	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	TH-229	T-RAD	714R5	9.72	2.00	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	TH-229	T-RAD	714R6	5.88	1.20	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Th-229		714R6	5.88	1.20	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	TH-230	T-RAD	714R5	1.13	0.24	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	TH-230	T-RAD	714R6	11.6	1.50	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Th-230		714R6	11.6	1.50	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	TH-232	T-RAD	714R5	0.042	0.06	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	TH-232	T-RAD	714R6	0.054	0.05	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Th-232		714R6	0.054	0.05	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	TH-234	T-RAD	713R6	16	85.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	TH-234	T-RAD	713R6	47	80.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	Th-234		713R6	47	80.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	111157	TotActiv		704R5	161	23.00	PCI/L				TRUE	TRUE	LIQUID
ARA2002SS080080	18-Aug-01	108180	U-232	T-RAD	714R5	28.2	12.00	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	U-232	T-RAD	714R6	24.8	5.30	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	U-234	T-RAD	714R5	96	16.00	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	U-234	T-RAD	714R6	24	3.80	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	U-235	T-RAD	713R6	17	39.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	U-235	T-RAD	714R5	5.2	1.90	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	U-235	T-RAD	713R6	-37	36.00	PCI/L	U			TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	U-235	T-RAD	714R6	1.31	0.49	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	U-238	T-RAD	714R5	101	17.00	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	111157	U-238	T-RAD	714R6	30.6	4.70	PCI/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108179	AC-227	RAD	714R5	13.2	1.90	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	AC-228	RAD	713R6	1.22	0.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	AM-241	RAD	713R6	1.65	0.71	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	BI-214	RAD	713R6	30.9	5.30	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	CO-60	RAD	713R6	0.08	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	CS-137	RAD	713R6	0.02	0.15	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	K-40	RAD	713R6	17.3	3.60	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	PA-231	RAD	713R6	30.1	6.40	PCI/G		J		TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	PA-234M	RAD	713R6	39	27.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	PB-212	RAD	713R6	1.42	0.41	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	PB-214	RAD	713R6	40.1	6.60	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	RA-226	RAD	783R3	43.3	4.40	PCI/G	Y1			TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	TH-227	RAD	713R6	22	3.90	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	TH-228	RAD	714R5	1.16	0.24	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	TH-229	RAD	714R5	5.14	1.20	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	TH-230	RAD	714R5	405	51.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	TH-232	RAD	714R5	1.45	0.25	PCI/G				TRUE	TRUE	SOIL

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ARA2002SS080080	18-Aug-01	108179	TH-234	RAD	713R6	2.5	3.30	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	TL-208	RAD	713R6	0.34	0.17	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	TOTACTIV	RAD	704R5	827	85.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	U-232	RAD	714R5	27.9	6.90	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	U-234	RAD	714R5	30.1	4.90	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	U-235	RAD	713R6	9.8	2.10	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	U-235	RAD	714R5	1.53	0.65	PCI/G		J		TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108179	U-238	RAD	714R5	30.7	5.00	PCI/G				TRUE	TRUE	SOIL
ARA2002SS080080	18-Aug-01	108180	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.287	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	ACID	T-HER	SW8151	0.0189	0.00	MG/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	2-FLUOROBIPHENYL	T-OS	SW8270	0.198	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	2-FLUOROPHENOL	T-OS	SW8270	0.188	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0485	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	BARIUM	T-M	SW6010	1.4	0.00	MG/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	CADMIUM	T-M	SW6010	0.02	0.00	MG/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	COPPER	T-M	SW6010	0.064	0.00	MG/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	DECACHLOROBIPHENYL	T-PES	SW8081	0.00492	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0451	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	LEAD	T-M	SW6010	0.02	0.00	MG/L				TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA2002SS080080	18-Aug-01	108180	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	NITROBENZENE-D5	T-OS	SW8270	0.214	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	PHENOL-D5	T-OS	SW8270	0.268	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	TERPHENYL-D14	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00475	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	TOLUENE-D8	T-OV	SW8260	0.0493	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS080080	18-Aug-01	108180	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS080080	18-Aug-01	108180	ZINC	T-M	SW6010	0.25	0.00	MG/L				TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	AC-227	T-RAD	714R5	0.3	0.46	PCI/L	U	UJ		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	AC-228	T-RAD	713R6	10	31.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	AM-241	T-RAD	713R6	0.9	9.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CO-60	T-RAD	713R6	-2	11.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CS-137	T-RAD	713R6	-1.9	9.10	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	K-40	T-RAD	713R6	80	170.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	PA-231	T-RAD	713R6	60	200.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	PA-234M	T-RAD	713R6	0	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	RA-226	T-RAD	783R3	0.29	0.46	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	RA-228	T-RAD	724R6	1.07	0.47	PCI/L				TRUE	TRUE	WATER
ARA2002SS061860	21-Aug-01	108195	TH-228	T-RAD	714R5	0.08	0.13	PCI/L	U	UJ		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	TH-229	T-RAD	714R5	10.7	2.00	PCI/L				TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	TH-230	T-RAD	714R5	0.175	0.08	PCI/L	LT	J		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	TH-232	T-RAD	714R5	0.007	0.05	PCI/L	U	UJ		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	TH-234	T-RAD	713R6	11	76.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	U-232	T-RAD	714R5	48.9	10.00	PCI/L				TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	U-234	T-RAD	714R5	0.54	0.44	PCI/L	LT	J		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	U-235	T-RAD	713R6	-9	42.00	PCI/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	U-235	T-RAD	714R5	0.24	0.29	PCI/L				TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	U-238	T-RAD	714R5	1.04	0.61	PCI/L				TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108194	AC-227	RAD	714R5	0.66	0.20	PCI/G	LT			TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	AC-228	RAD	713R6	1.68	0.43	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	AM-241	RAD	713R6	-0.1	0.15	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	BI-212	RAD	713R6	1.1	1.20	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	BI-214	RAD	713R6	1.64	0.39	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	CO-60	RAD	713R6	0.019	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	CS-137	RAD	713R6	0.102	0.09	PCI/G	TI			TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	K-40	RAD	713R6	8.6	2.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	PA-231	RAD	713R6	-0.9	3.70	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	PA-234M	RAD	713R6	8	11.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	PB-212	RAD	713R6	2.03	0.42	PCI/G				TRUE	TRUE	SOIL

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ARA2002SS061860	21-Aug-01	108194	PB-214	RAD	713R6	1.68	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	RA-226	RAD	783R3	1.42	0.30	PCI/G	Y1			TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	TH-228	RAD	714R5	1.82	0.29	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	TH-229	RAD	714R5	1.96	0.63	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	TH-230	RAD	714R5	2.13	0.32	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	TH-232	RAD	714R5	1.72	0.27	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	TH-234	RAD	713R6	1.97	0.98	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	TL-208	RAD	713R6	0.58	0.17	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	TOTACTIV	RAD	704R5	19.9	4.50	PCI/G		J		TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	U-232	RAD	714R5	3.68	0.95	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	U-234	RAD	714R5	2.04	0.40	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	U-235	RAD	713R6	-0.04	0.46	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	U-235	RAD	714R5	0.164	0.08	PCI/G	LT			TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108194	U-238	RAD	714R5	1.71	0.35	PCI/G				TRUE	TRUE	SOIL
ARA2002SS061860	21-Aug-01	108195	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.297	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	ACID	T-HER	SW8151	0.0186	0.00	MG/L				TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	2-FLUOROBIPHENYL	T-OS	SW8270	0.212	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	2-FLUOROPHENOL	T-OS	SW8270	0.256	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0494	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	ARSENIC	T-M	SW6010	0.02	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	BARIUM	T-M	SW6010	0.87	0.00	MG/L				TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CADMIUM	T-M	SW6010	0.0018	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	CHROMIUM	T-M	SW6010	0.002	0.00	MG/L	B	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	DECACHLOROBIPHENYL	T-PES	SW8081	0.0039	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0491	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA2002SS061860	21-Aug-01	108195	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	NITROBENZENE-D5	T-OS	SW8270	0.218	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	PHENOL-D5	T-OS	SW8270	0.309	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	TERPHENYL-D14	T-OS	SW8270	0.2	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00372	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	TOLUENE-D8	T-OV	SW8260	0.0477	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2002SS061860	21-Aug-01	108195	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2002SS061860	21-Aug-01	108195	ZINC	T-M	SW6010	0.055	0.00	MG/L		U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	AC-227	T-RAD	714R5	0.32	0.33	PCI/L		J		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	AC-228	T-RAD	713R6	9	31.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	AM-241	T-RAD	713R6	2	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CO-60	T-RAD	713R6	3	13.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CS-137	T-RAD	713R6	5.8	8.90	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	K-40	T-RAD	713R6	-50	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	PA-231	T-RAD	713R6	200	210.00	PCI/L	TI			TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	PA-234M	T-RAD	713R6	-300	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	RA-226	T-RAD	783R3	3.04	0.46	PCI/L	Y1			TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	RA-228	T-RAD	724R6	0.77	0.46	PCI/L	LT			TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TH-228	T-RAD	714R5	-0.04	0.15	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TH-229	T-RAD	714R5	9.56	2.50	PCI/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TH-230	T-RAD	714R5	0.19	0.14	PCI/L	LT	J		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.016	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TH-234	T-RAD	713R6	-8	76.00	PCI/L	U	UJ		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	U-232	T-RAD	714R5	46.9	9.50	PCI/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	U-234	T-RAD	714R5	5.9	1.40	PCI/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	U-235	T-RAD	713R6	-44	36.00	PCI/L	U	UJ		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	U-235	T-RAD	714R5	0.19	0.25	PCI/L	U	UJ		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	U-238	T-RAD	714R5	4.6	1.20	PCI/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108177	AC-227	RAD	714R5	0.63	0.16	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	AC-228	RAD	713R6	0.5	0.16	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	AM-241	RAD	713R6	0.28	0.26	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	BI-212	RAD	713R6	0.8	0.55	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	BI-214	RAD	713R6	1.1	0.23	PCI/G				TRUE	TRUE	SOIL

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ARA2001SS240360	18-Aug-01	108177	CO-60	RAD	713R6	0.027	0.04	PCI/G	U			TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	CS-137	RAD	713R6	0.019	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	K-40	RAD	713R6	6.1	1.40	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	PA-231	RAD	713R6	0.6	1.30	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	PA-234M	RAD	713R6	3.9	7.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	PB-212	RAD	713R6	0.57	0.14	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	PB-214	RAD	713R6	1.28	0.25	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	RA-226	RAD	783R3	1.3	0.32	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	TH-228	RAD	714R5	0.6	0.11	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	TH-229	RAD	714R5	2.94	0.59	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	TH-230	RAD	714R5	10.7	1.40	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	TH-232	RAD	714R5	0.62	0.11	PCI/G	LT			TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	TH-234	RAD	713R6	1.26	0.95	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	TL-208	RAD	713R6	0.176	0.06	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	TOTACTIV	RAD	704R5	29.6	5.20	PCI/G		J		TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	U-232	RAD	714R5	2.74	0.69	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	U-234	RAD	714R5	1.53	0.29	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	U-235	RAD	713R6	0.34	0.31	PCI/G	TI			TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	U-235	RAD	714R5	0.058	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108177	U-238	RAD	714R5	1.56	0.29	PCI/G				TRUE	TRUE	SOIL
ARA2001SS240360	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.34	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	ACID	T-HER	SW8151	0.0176	0.00	MG/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.156	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0461	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	BARIUM	T-M	SW6010	0.81	0.00	MG/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.15	0.00	MG/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00218	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E

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ARA2001SS240360	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0463	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	LEAD	T-M	SW6010	0.77	0.00	MG/L				TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.222	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.252	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.201	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.0046	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0483	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS240360	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS240360	18-Aug-01	108178	ZINC	T-M	SW6010	23	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	AC-227	T-RAD	714R5	0.08	0.27	PCI/L	U	UJ		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	AC-228	T-RAD	713R6	18	33.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	AM-241	T-RAD	713R6	5.8	9.80	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	CO-60	T-RAD	713R6	0.8	9.40	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	CS-137	T-RAD	713R6	-1.1	7.80	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	K-40	T-RAD	713R6	90	130.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	PA-231	T-RAD	713R6	100	210.00	PCI/L	U	UJ		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	PA-234M	T-RAD	713R6	-800	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	RA-226	T-RAD	783R3	2.11	0.38	PCI/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	RA-228	T-RAD	724R6	0.67	0.48	PCI/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TH-228	T-RAD	714R5	0.02	0.22	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TH-229	T-RAD	714R5	9.87	2.40	PCI/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TH-230	T-RAD	714R5	0.39	0.22	PCI/L	LT	J		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TH-232	T-RAD	714R5	0.002	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TH-234	T-RAD	713R6	-21	88.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	U-232	T-RAD	714R5	46.8	9.50	PCI/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	U-234	T-RAD	714R5	11.2	2.20	PCI/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	U-235	T-RAD	713R6	31	38.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	U-235	T-RAD	714R5	1.32	0.60	PCI/L		J		TRUE	TRUE	E

SAMPLE_NO	COLL_DATE	Lab SDG	PARAMETER	FRACTION	METHOD	LAB_RESULT	UNCERTNTY	UNITS	LAB_ QUAL	SAIC DATA_ QUAL	COMMENTS	VALIDATED	OK_TO_USE in Reports	MATRIX
ARA2001SS060180	18-Aug-01	108178	U-238	T-RAD	714R5	10.7	2.10	PCI/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108177	AC-227	RAD	714R5	1.14	0.28	PCI/G		J		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	AC-228	RAD	713R6	0.5	0.19	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	AM-241	RAD	713R6	0.05	0.11	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	BI-212	RAD	713R6	1.14	0.74	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	BI-214	RAD	713R6	1.72	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	CO-60	RAD	713R6	0.037	0.05	PCI/G	U			TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	CS-137	RAD	713R6	-0.008	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	K-40	RAD	713R6	7.1	1.90	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	PA-231	RAD	713R6	0.1	2.60	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	PA-234M	RAD	713R6	7.8	9.70	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	PB-212	RAD	713R6	0.7	0.18	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	PB-214	RAD	713R6	2.1	0.41	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	RA-226	RAD	783R3	2.18	0.36	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TH-227	RAD	713R6	0.83	0.43	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TH-228	RAD	714R5	0.66	0.15	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TH-229	RAD	714R5	2.17	0.64	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TH-230	RAD	714R5	18.4	2.50	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TH-232	RAD	714R5	0.67	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TH-234	RAD	713R6	2.57	0.91	PCI/G		J		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TL-208	RAD	713R6	0.188	0.09	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	TOTACTIV	RAD	704R5	51.3	6.90	PCI/G		J		TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	U-232	RAD	714R5	2.78	0.68	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	U-234	RAD	714R5	3.24	0.52	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	U-235	RAD	713R6	0.61	0.35	PCI/G	TI			TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	U-235	RAD	714R5	0.236	0.08	PCI/G	LT			TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108177	U-238	RAD	714R5	3.1	0.50	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060180	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.345	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	ACID	T-HER	SW8151	0.0173	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.195	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.196	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0476	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	BARIUM	T-M	SW6010	0.73	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.22	0.00	MG/L				TRUE	TRUE	E

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ARA2001SS060180	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	COPPER	T-M	SW6010	0.02	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00321	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0459	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	LEAD	T-M	SW6010	0.5	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.196	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.254	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.019	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.195	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00465	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0489	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060180	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060180	18-Aug-01	108178	ZINC	T-M	SW6010	19	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	AC-227	T-RAD	714R5	9.5	1.50	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	AC-228	T-RAD	713R6	4	32.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	AM-241	T-RAD	713R6	-4	11.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CO-60	T-RAD	713R6	-1	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CS-137	T-RAD	713R6	6.5	9.40	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	K-40	T-RAD	713R6	-60	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	PA-231	T-RAD	713R6	-240	230.00	PCI/L	U	UJ		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	PA-234M	T-RAD	713R6	1100	1700.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	PB-214	T-RAD	713R6	72	23.00	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	RA-226	T-RAD	783R3	28.2	3.00	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	RA-228	T-RAD	724R6	1.42	0.51	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	TH-228	T-RAD	714R5	0.14	0.14	PCI/L				TRUE	TRUE	E

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ARA2001SS060120	18-Aug-01	108178	TH-229	T-RAD	714R5	10.7	2.00	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	TH-230	T-RAD	714R5	18.7	2.40	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	TH-232	T-RAD	714R5	0.052	0.06	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	TH-234	T-RAD	713R6	-17	83.00	PCI/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	U-232	T-RAD	714R5	23.8	11.00	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	U-234	T-RAD	714R5	142	21.00	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	U-235	T-RAD	713R6	35	42.00	PCI/L	TI			TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	U-235	T-RAD	714R5	7.8	2.10	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	U-238	T-RAD	714R5	140	21.00	PCI/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108177	AC-227	RAD	714R5	21.6	2.80	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	AC-228	RAD	713R6	1.95	0.73	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	AM-241	RAD	713R6	-0.02	0.43	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	BI-212	RAD	713R6	3	2.20	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	BI-214	RAD	713R6	34.7	6.40	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	CO-60	RAD	713R6	-0.14	0.19	PCI/G	U			TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	CS-137	RAD	713R6	0.15	0.17	PCI/G	TI			TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	K-40	RAD	713R6	11.4	3.50	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	PA-231	RAD	713R6	22.1	5.90	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	PA-234M	RAD	713R6	12	33.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	PB-212	RAD	713R6	1.2	0.37	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	PB-214	RAD	713R6	40.6	6.80	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	RA-226	RAD	783R3	57.2	5.80	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TH-227	RAD	713R6	20.8	3.90	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TH-228	RAD	714R5	1.35	0.21	PCI/G		J		TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TH-229	RAD	714R5	2.61	0.61	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TH-230	RAD	714R5	549	69.00	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TH-232	RAD	714R5	2	0.29	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TH-234	RAD	713R6	22.5	4.50	PCI/G		J		TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TL-208	RAD	713R6	0.19	0.14	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	TOTACTIV	RAD	704R5	1160	120.00	PCI/G		J		TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	U-232	RAD	714R5	29.1	6.80	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	U-234	RAD	714R5	32.8	5.30	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	U-235	RAD	713R6	9.4	2.10	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	U-235	RAD	714R5	1.61	0.65	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108177	U-238	RAD	714R5	31.7	5.10	PCI/G				TRUE	TRUE	SOIL
ARA2001SS060120	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.309	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	ACID	T-HER	SW8151	0.0176	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.225	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.301	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARA2001SS060120	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0462	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.016	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	BARIUM	T-M	SW6010	1.4	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.091	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0037	0.00	MG/L	B	B		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	COPPER	T-M	SW6010	0.18	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00437	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0436	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	LEAD	T-M	SW6010	0.22	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.215	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.308	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.035	0.00	MG/L				TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.212	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00452	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.05	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA2001SS060120	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA2001SS060120	18-Aug-01	108178	ZINC	T-M	SW6010	0.52	0.00	MG/L				TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	AC-227	T-RAD	714R5	-0.04	0.17	PCI/L	U	UJ		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	AC-228	T-RAD	713R6	21	37.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	AM-241	T-RAD	713R6	4.1	9.50	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	CO-60	T-RAD	713R6	-2.2	9.80	PCI/L	U			TRUE	TRUE	E

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ARA1004SS121740	18-Aug-01	108178	CS-137	T-RAD	713R6	-6.5	7.60	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	K-40	T-RAD	713R6	-40	160.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	PA-231	T-RAD	713R6	-10	200.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	PA-234M	T-RAD	713R6	-100	1400.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	RA-226	T-RAD	783R3	0.34	0.39	PCI/L				TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	RA-228	T-RAD	724R6	1.04	0.47	PCI/L				TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TH-228	T-RAD	714R5	0.11	0.28	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TH-229	T-RAD	714R5	9.47	2.60	PCI/L				TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TH-230	T-RAD	714R5	0.08	0.11	PCI/L	U	UJ		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.01	0.06	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TH-234	T-RAD	713R6	18	87.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	U-232	T-RAD	714R5	47.4	9.30	PCI/L				TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	U-234	T-RAD	714R5	3.04	0.91	PCI/L				TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	U-235	T-RAD	713R6	-24	37.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	U-235	T-RAD	714R5	0.36	0.29	PCI/L	LT	J		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	U-238	T-RAD	714R5	2.51	0.80	PCI/L				TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108177	AC-227	RAD	714R5	0.18	0.11	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	AC-228	RAD	713R6	0.48	0.28	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	AM-241	RAD	713R6	-0.069	0.07	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	BI-214	RAD	713R6	0.43	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	CO-60	RAD	713R6	0	0.06	PCI/G	U			TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	CS-137	RAD	713R6	0	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	K-40	RAD	713R6	7	2.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	PA-231	RAD	713R6	0	1.40	PCI/G	U			TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	PA-234M	RAD	713R6	2.7	8.50	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	PB-212	RAD	713R6	0.39	0.16	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	PB-214	RAD	713R6	0.41	0.15	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	RA-226	RAD	783R3	0.99	0.55	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	TH-228	RAD	714R5	0.51	0.11	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	TH-229	RAD	714R5	2.46	0.61	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	TH-230	RAD	714R5	1.58	0.24	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	TH-232	RAD	714R5	0.462	0.09	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	TH-234	RAD	713R6	0.31	0.64	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	TOTACTIV	RAD	704R5	9.1	4.00	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	U-232	RAD	714R5	3.1	0.66	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	U-234	RAD	714R5	0.66	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	U-235	RAD	713R6	-0.21	0.28	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	U-235	RAD	714R5	0.083	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108177	U-238	RAD	714R5	0.63	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS121740	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.327	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	ACID	T-HER	SW8151	0.0206	0.00	MG/L				TRUE	TRUE	E

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ARA1004SS121740	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.262	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.0092	0.00	MG/L	J	J		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.029	0.00	MG/L	J	J		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0485	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	BARIUM	T-M	SW6010	0.53	0.00	MG/L		U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00513	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0482	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.204	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.274	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.193	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00501	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0538	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121740	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121740	18-Aug-01	108178	ZINC	T-M	SW6010	0.16	0.00	MG/L		U		TRUE	TRUE	E

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ARA1004SS121380	18-Aug-01	108178	AC-227	T-RAD	714R5	1.14	0.66	PCI/L		J		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	AC-228	T-RAD	713R6	-7	36.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	AM-241	T-RAD	713R6	-1	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CO-60	T-RAD	713R6	4	11.00	PCI/L	U			TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CS-137	T-RAD	713R6	-1.9	8.70	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	K-40	T-RAD	713R6	-50	140.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	PA-231	T-RAD	713R6	-30	190.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	PA-234M	T-RAD	713R6	2100	1500.00	PCI/L	TI			TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	RA-226	T-RAD	783R3	42	4.40	PCI/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	RA-228	T-RAD	724R6	1.17	0.52	PCI/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	TH-228	T-RAD	714R5	-0.1	0.24	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	TH-229	T-RAD	714R5	9.46	2.50	PCI/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	TH-230	T-RAD	714R5	0.2	0.16	PCI/L		J		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.008	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	TH-234	T-RAD	713R6	6	84.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	U-232	T-RAD	714R5	47.2	9.30	PCI/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	U-234	T-RAD	714R5	45.1	6.60	PCI/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	U-235	T-RAD	713R6	-23	36.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	U-235	T-RAD	714R5	2.98	0.90	PCI/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	U-238	T-RAD	714R5	42.7	6.30	PCI/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108177	AC-227	RAD	714R5	7.04	0.98	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	AC-228	RAD	713R6	0.96	0.35	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	AM-241	RAD	713R6	0.18	0.57	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	BI-214	RAD	713R6	5.7	1.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	CO-60	RAD	713R6	-0.018	0.08	PCI/G	U			TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	CS-137	RAD	713R6	-0.009	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	K-40	RAD	713R6	10.2	2.30	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	PA-231	RAD	713R6	6.6	4.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	PA-234M	RAD	713R6	2	13.00	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	PB-212	RAD	713R6	0.76	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	PB-214	RAD	713R6	7	1.20	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	RA-226	RAD	783R3	27.2	3.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TH-227	RAD	713R6	4.14	0.98	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TH-228	RAD	714R5	0.88	0.15	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TH-229	RAD	714R5	2.96	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TH-230	RAD	714R5	188	24.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TH-232	RAD	714R5	1	0.16	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TH-234	RAD	713R6	8.6	2.50	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TL-208	RAD	713R6	0.224	0.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	TOTACTIV	RAD	704R5	330	34.00	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	U-232	RAD	714R5	12.4	2.70	PCI/G				TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	U-234	RAD	714R5	13.5	2.10	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	U-235	RAD	713R6	2.05	0.70	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	U-235	RAD	714R5	0.6	0.24	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108177	U-238	RAD	714R5	13.6	2.10	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS121380	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1004SS121380	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.336	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	ACID	T-HER	SW8151	0.0191	0.00	MG/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.21	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.287	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0452	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	BARIUM	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.0084	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00416	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0456	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	LEAD	T-M	SW6010	0.38	0.00	MG/L				TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.294	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1004SS121380	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00466	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0521	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS121380	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS121380	18-Aug-01	108178	ZINC	T-M	SW6010	1.8	0.00	MG/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	112048	PH	OTHER	SW9045C	7.4	0.00	PH		J		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108178	AC-227	T-RAD	714R5	0.87	0.52	PCI/L	LT	J		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	AC-228	T-RAD	713R6	-8	34.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	AM-241	T-RAD	713R6	-6	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CO-60	T-RAD	713R6	-4.4	9.30	PCI/L	U			TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CS-137	T-RAD	713R6	3.2	7.90	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	K-40	T-RAD	713R6	-80	170.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	PA-231	T-RAD	713R6	-80	200.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	PA-234M	T-RAD	713R6	800	1300.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	PB-214	T-RAD	713R6	45	19.00	PCI/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	RA-226	T-RAD	783R3	59.7	6.10	PCI/L	Y1			TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	RA-228	T-RAD	724R6	1.13	0.49	PCI/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TH-228	T-RAD	714R5	0.15	0.29	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TH-229	T-RAD	714R5	9.7	2.50	PCI/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TH-230	T-RAD	714R5	0.39	0.21	PCI/L	LT	J		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TH-232	T-RAD	714R5	0.01	0.06	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TH-234	T-RAD	713R6	27	92.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	U-232	T-RAD	714R5	26.4	11.00	PCI/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	U-234	T-RAD	714R5	118	18.00	PCI/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	U-235	T-RAD	713R6	-14	39.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	U-235	T-RAD	714R5	8.2	2.20	PCI/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	U-238	T-RAD	714R5	119	18.00	PCI/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108177	AC-227	RAD	714R5	8.4	1.20	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	AC-228	RAD	713R6	1.03	0.35	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	AM-241	RAD	713R6	-0.01	0.34	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	BI-214	RAD	713R6	11.7	2.50	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	CO-60	RAD	713R6	-0.12	0.14	PCI/G	U			TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	CS-137	RAD	713R6	-0.01	0.21	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	K-40	RAD	713R6	9.1	2.80	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	PA-231	RAD	713R6	8.9	3.20	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	PA-234M	RAD	713R6	30	23.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	PB-212	RAD	713R6	1.05	0.33	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	PB-214	RAD	713R6	14.7	2.50	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	RA-226	RAD	783R3	21.1	2.40	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	TH-227	RAD	713R6	9.1	1.90	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	TH-228	RAD	714R5	0.77	0.14	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	TH-229	RAD	714R5	2.82	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	TH-230	RAD	714R5	220	28.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	TH-232	RAD	714R5	1.24	0.19	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	TH-234	RAD	713R6	14.2	3.00	PCI/G		U		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	TL-208	RAD	713R6	0.2	0.13	PCI/G				TRUE	TRUE	SOIL

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ARA1004SS120720	18-Aug-01	108177	TOTACTIV	RAD	704R5	412	42.00	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	U-232	RAD	714R5	17.9	4.70	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	U-234	RAD	714R5	16.1	2.80	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	U-235	RAD	713R6	4.7	1.40	PCI/G	TI			TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	U-235	RAD	714R5	0.55	0.34	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108177	U-238	RAD	714R5	19.3	3.30	PCI/G				TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.315	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	ACID	T-HER	SW8151	0.0168	0.00	MG/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.2	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.311	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.048	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	BARIUM	T-M	SW6010	0.98	0.00	MG/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.051	0.00	MG/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0022	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	COPPER	T-M	SW6010	0.0098	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00403	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0488	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	LEAD	T-M	SW6010	0.3	0.00	MG/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.205	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARA1004SS120720	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.306	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.179	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00462	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0514	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS120720	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	108178	ZINC	T-M	SW6010	4.5	0.00	MG/L				TRUE	TRUE	E
ARA1004SS120720	18-Aug-01	112048	CYANIDE, TOTAL	OTHER	SW9010	0.57	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	112048	REACTIVE CYANIDE	OTHER	1	0.1	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
ARA1004SS120720	18-Aug-01	112048	REACTIVE SULFIDE	OTHER	2	50	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108178	AC-227	T-RAD	714R5	0.45	0.46	PCI/L		J		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	AC-228	T-RAD	713R6	0	31.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	AM-241	T-RAD	713R6	-4	9.40	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CO-60	T-RAD	713R6	-1.6	7.40	PCI/L	U			TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CS-137	T-RAD	713R6	5.9	7.60	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	K-40	T-RAD	713R6	20	110.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	PA-231	T-RAD	713R6	-50	220.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	PA-234M	T-RAD	713R6	700	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	RA-226	T-RAD	783R3	1.28	0.27	PCI/L	Y1			TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	RA-228	T-RAD	724R6	1.53	0.54	PCI/L				TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TH-228	T-RAD	714R5	-0.03	0.26	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TH-229	T-RAD	714R5	8.59	2.50	PCI/L				TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TH-230	T-RAD	714R5	0.34	0.21	PCI/L	LT	J		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TH-232	T-RAD	714R5	0.021	0.06	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TH-234	T-RAD	713R6	-26	77.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	U-232	T-RAD	714R5	48.2	9.40	PCI/L				TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	U-234	T-RAD	714R5	2.35	0.79	PCI/L				TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	U-235	T-RAD	713R6	-9	40.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	U-235	T-RAD	714R5	0.51	0.34	PCI/L	LT	J		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	U-238	T-RAD	714R5	1.57	0.63	PCI/L				TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108177	AC-227	RAD	714R5	0.29	0.13	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	AC-228	RAD	713R6	0.75	0.24	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	AM-241	RAD	713R6	0.06	0.10	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	BI-214	RAD	713R6	0.87	0.23	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	CO-60	RAD	713R6	0.047	0.06	PCI/G	U			TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	CS-137	RAD	713R6	0.002	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	K-40	RAD	713R6	14.4	3.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	PA-231	RAD	713R6	-2.3	2.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	PA-234M	RAD	713R6	-0.9	9.70	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	PB-212	RAD	713R6	1.01	0.23	PCI/G				TRUE	TRUE	SOIL

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ARA1004SS061500	18-Aug-01	108177	PB-214	RAD	713R6	0.93	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	RA-226	RAD	783R3	2.43	0.48	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	TH-228	RAD	714R5	0.67	0.14	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	TH-229	RAD	714R5	2.73	0.62	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	TH-230	RAD	714R5	1.28	0.20	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	TH-232	RAD	714R5	0.77	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	TH-234	RAD	713R6	0.82	0.92	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	TL-208	RAD	713R6	0.3	0.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	TOTACTIV	RAD	704R5	6	3.90	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	U-232	RAD	714R5	3.13	0.67	PCI/G				TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	U-234	RAD	714R5	0.84	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	U-235	RAD	713R6	0.07	0.29	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	U-235	RAD	714R5	0.11	0.05	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108177	U-238	RAD	714R5	0.85	0.18	PCI/G	LT			TRUE	TRUE	SOIL
ARA1004SS061500	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.332	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	ACID	T-HER	SW8151	0.016	0.00	MG/L				TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.212	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.287	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0519	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	BARIUM	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0019	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00458	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0534	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1004SS061500	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.213	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.297	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	SILVER	T-M	SW6010	0.0023	0.00	MG/L	B	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.215	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00483	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0598	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS061500	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS061500	18-Aug-01	108178	ZINC	T-M	SW6010	0.27	0.00	MG/L		U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	AC-227	T-RAD	714R5	0.83	0.61	PCI/L		J		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	AC-228	T-RAD	713R6	-6	31.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	AM-241	T-RAD	713R6	2	11.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CO-60	T-RAD	713R6	-6.3	8.50	PCI/L	U			TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CS-137	T-RAD	713R6	2.2	8.70	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	K-40	T-RAD	713R6	-30	110.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	PA-231	T-RAD	713R6	-50	230.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	PA-234M	T-RAD	713R6	-400	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	PB-214	T-RAD	713R6	35	17.00	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	RA-226	T-RAD	783R3	55.1	5.60	PCI/L	Y1			TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	RA-228	T-RAD	724R6	1.11	0.56	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TH-228	T-RAD	714R5	0.01	0.28	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TH-229	T-RAD	714R5	8.81	2.50	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TH-230	T-RAD	714R5	1.94	0.55	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TH-232	T-RAD	714R5	0.015	0.09	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TH-234	T-RAD	713R6	31	95.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	U-232	T-RAD	714R5	23.6	11.00	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	U-234	T-RAD	714R5	147	23.00	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	U-235	T-RAD	713R6	44	53.00	PCI/L	TI			TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	U-235	T-RAD	714R5	10.5	2.80	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	U-238	T-RAD	714R5	143	23.00	PCI/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108177	AC-227	RAD	714R5	11.9	1.60	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	AC-228	RAD	713R6	0.96	0.49	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	AM-241	RAD	713R6	-0.16	0.35	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	BI-214	RAD	713R6	15.7	3.30	PCI/G				TRUE	TRUE	SOIL

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ARA1004SS060140	18-Aug-01	108177	CO-60	RAD	713R6	0.1	0.16	PCI/G	U			TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	CS-137	RAD	713R6	0.01	0.13	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	K-40	RAD	713R6	9.8	3.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	PA-231	RAD	713R6	13.5	4.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	PA-234M	RAD	713R6	36	23.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	PB-212	RAD	713R6	0.73	0.29	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	PB-214	RAD	713R6	20.9	3.50	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	RA-226	RAD	783R3	32	3.40	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TH-227	RAD	713R6	11.6	2.30	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TH-228	RAD	714R5	1.02	0.17	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TH-229	RAD	714R5	2.81	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TH-230	RAD	714R5	320	40.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TH-232	RAD	714R5	1.26	0.19	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TH-234	RAD	713R6	22.3	4.30	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TL-208	RAD	713R6	0.22	0.13	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	TOTACTIV	RAD	704R5	683	70.00	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	U-232	RAD	714R5	26.8	7.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	U-234	RAD	714R5	25.9	4.40	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	U-235	RAD	713R6	6.8	1.60	PCI/G	TI			TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	U-235	RAD	714R5	1.31	0.62	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108177	U-238	RAD	714R5	26.6	4.50	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060140	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.308	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	ACID	T-HER	SW8151	0.019	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.181	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.287	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0479	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	BARIUM	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.038	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	COPPER	T-M	SW6010	0.17	0.00	MG/L				TRUE	TRUE	E

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ARA1004SS060140	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00421	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0479	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	LEAD	T-M	SW6010	0.38	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.194	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.288	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.014	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.16	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00481	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0537	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060140	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060140	18-Aug-01	108178	ZINC	T-M	SW6010	0.82	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	112048	PH	OTHER	SW9045C	7.6	0.00	PH		J		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108178	AC-227	T-RAD	714R5	3.7	1.10	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	AC-228	T-RAD	713R6	26	29.00	PCI/L	TI			TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	AM-241	T-RAD	713R6	-7	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CO-60	T-RAD	713R6	-7	11.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CS-137	T-RAD	713R6	-3.9	8.20	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	K-40	T-RAD	713R6	10	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	PA-231	T-RAD	713R6	-50	210.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	PA-234M	T-RAD	713R6	600	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	PB-214	T-RAD	713R6	41	18.00	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	RA-226	T-RAD	783R3	83.3	8.40	PCI/L	Y1			TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	RA-228	T-RAD	724R6	1.18	0.53	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TH-228	T-RAD	714R5	0.11	0.19	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TH-229	T-RAD	714R5	9.54	2.50	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TH-230	T-RAD	714R5	1.59	0.47	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.016	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TH-234	T-RAD	713R6	51	97.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	U-232	T-RAD	714R5	17.8	12.00	PCI/L				TRUE	TRUE	E

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ARA1004SS060080	18-Aug-01	108178	U-234	T-RAD	714R5	178	29.00	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	U-235	T-RAD	713R6	-3	38.00	PCI/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	U-235	T-RAD	714R5	12.2	3.30	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	U-238	T-RAD	714R5	174	28.00	PCI/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108177	AC-227	RAD	714R5	23.9	3.60	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	AC-228	RAD	713R6	1.51	0.46	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	AM-241	RAD	713R6	2.2	1.10	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	BI-214	RAD	713R6	34.9	5.80	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	CO-60	RAD	713R6	0.03	0.11	PCI/G	U			TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	CS-137	RAD	713R6	-0.08	0.16	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	K-40	RAD	713R6	17	3.40	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	PA-231	RAD	713R6	38.8	7.70	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	PA-234M	RAD	713R6	70	24.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	PB-212	RAD	713R6	1.15	0.35	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	PB-214	RAD	713R6	43.8	7.30	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	RA-226	RAD	783R3	87	8.90	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TH-227	RAD	713R6	24.5	4.30	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TH-228	RAD	714R5	1.36	0.26	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TH-229	RAD	714R5	2.48	0.68	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TH-230	RAD	714R5	659	89.00	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TH-232	RAD	714R5	1.53	0.27	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TH-234	RAD	713R6	55.7	10.00	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TL-208	RAD	713R6	0.201	0.09	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	TOTACTIV	RAD	704R5	1500	150.00	PCI/G		J		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	U-232	RAD	714R5	27.4	6.80	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	U-234	RAD	714R5	54.2	8.20	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	U-235	RAD	713R6	10.7	2.10	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	U-235	RAD	714R5	2.45	0.83	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108177	U-238	RAD	714R5	58.3	8.80	PCI/G				TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.278	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	ACID	T-HER	SW8151	0.0195	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.209	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.301	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0517	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	BARIUM	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E

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ARA1004SS060080	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.037	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0032	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	COPPER	T-M	SW6010	0.071	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00474	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0496	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	LEAD	T-M	SW6010	0.041	0.00	MG/L				TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.212	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.29	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	SILVER	T-M	SW6010	0.0048	0.00	MG/L	B	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.19	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00473	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0558	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1004SS060080	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	108178	ZINC	T-M	SW6010	0.18	0.00	MG/L		U		TRUE	TRUE	E
ARA1004SS060080	18-Aug-01	112048	CYANIDE, TOTAL	OTHER	SW9010	0.96	0.00	MG/KG		J		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	112048	REACTIVE CYANIDE	OTHER	1	0.1	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
ARA1004SS060080	18-Aug-01	112048	REACTIVE SULFIDE	OTHER	2	50	0.00	MG/KG	U	UJ		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108178	AC-227	T-RAD	714R5	-0.05	0.32	PCI/L	U	UJ		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	AC-228	T-RAD	713R6	10	34.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	AM-241	T-RAD	713R6	-6	9.80	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CO-60	T-RAD	713R6	-4.8	8.40	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CS-137	T-RAD	713R6	-0.1	7.80	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	K-40	T-RAD	713R6	40	130.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	PA-231	T-RAD	713R6	80	240.00	PCI/L	U	U		TRUE	TRUE	E

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ARA1003SS241920	18-Aug-01	108178	PA-234M	T-RAD	713R6	-100	1400.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	RA-226	T-RAD	783R3	1.04	0.25	PCI/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	RA-228	T-RAD	724R6	0.74	0.42	PCI/L	LT			TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TH-228	T-RAD	714R5	-0.14	0.14	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TH-229	T-RAD	714R5	9.15	2.50	PCI/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TH-230	T-RAD	714R5	0.27	0.17	PCI/L	LT	J		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.008	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TH-234	T-RAD	713R6	-36	75.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	U-232	T-RAD	714R5	48.9	9.40	PCI/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	U-234	T-RAD	714R5	1.31	0.58	PCI/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	U-235	T-RAD	713R6	-10	40.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	U-235	T-RAD	714R5	0.38	0.30	PCI/L	LT	J		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	U-238	T-RAD	714R5	1.21	0.55	PCI/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108177	AC-227	RAD	714R5	0.34	0.13	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	AC-228	RAD	713R6	0.71	0.21	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	AM-241	RAD	713R6	0.14	0.30	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	BI-212	RAD	713R6	0.89	0.63	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	BI-214	RAD	713R6	0.87	0.21	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	CO-60	RAD	713R6	0.029	0.05	PCI/G	U			TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	CS-137	RAD	713R6	0.063	0.06	PCI/G	TI			TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	K-40	RAD	713R6	11.6	2.40	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	PA-231	RAD	713R6	-1	1.60	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	PA-234M	RAD	713R6	4.5	7.60	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	PB-212	RAD	713R6	0.94	0.20	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	PB-214	RAD	713R6	0.96	0.21	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	RA-226	RAD	783R3	2.55	0.59	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	TH-228	RAD	714R5	0.87	0.16	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	TH-229	RAD	714R5	2.55	0.62	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	TH-230	RAD	714R5	1.39	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	TH-232	RAD	714R5	0.85	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	TH-234	RAD	713R6	1.42	0.92	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	TL-208	RAD	713R6	0.248	0.08	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	TOTACTIV	RAD	704R5	10.5	4.60	PCI/G		J		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	U-232	RAD	714R5	2.91	0.70	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	U-234	RAD	714R5	0.86	0.19	PCI/G	LT			TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	U-235	RAD	713R6	-0.03	0.34	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	U-235	RAD	714R5	0.048	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108177	U-238	RAD	714R5	1.02	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS241920	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.361	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	ACID	T-HER	SW8151	0.0115	0.00	MG/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1003SS241920	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.193	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.207	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.011	0.00	MG/L	J	J		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.05	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	BARIUM	T-M	SW6010	0.9	0.00	MG/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.0075	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.0037	0.00	MG/L	J	J		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00264	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0465	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	LEAD	T-M	SW6010	0.096	0.00	MG/L				TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.204	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.267	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.189	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00473	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0515	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS241920	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS241920	18-Aug-01	108178	ZINC	T-M	SW6010	3.1	0.00	MG/L				TRUE	TRUE	E
ARA1003SS121680	16-Aug-01	108138	1,1,1,2-TETRACHLOROETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL

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ARA1003SS121680	16-Aug-01	108138	1,1,1,2-TETRACHLOROETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1,1-TRICHLOROETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1,1-TRICHLOROETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1,2,2-TETRACHLOROETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1,2,2-TETRACHLOROETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1,2-TRICHLOROETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1,2-TRICHLOROETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1-DICHLOROETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1-DICHLOROETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1-DICHLOROETHENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1-DICHLOROETHENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1-DICHLOROPROPENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,1-DICHLOROPROPENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,3-TRICHLOROBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,3-TRICHLOROBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,3-TRICHLOROPROPANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,3-TRICHLOROPROPANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,4-TRICHLOROBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,4-TRICHLOROBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,4-TRIMETHYLBENZENE	OV	SW8260	150000	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2,4-TRIMETHYLBENZENE	OV	SW8260	150000	0.00	UG/KG			USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROPROPANE	OV	SW8260	13000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROPROPANE	OV	SW8260	67000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DIBROMOETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DIBROMOETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DICHLOROBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DICHLOROBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DICHLOROETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DICHLOROETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DICHLOROPROPANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,2-DICHLOROPROPANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,3,5-TRIMETHYLBENZENE	OV	SW8260	34000	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,3,5-TRIMETHYLBENZENE	OV	SW8260	30000	0.00	UG/KG	J		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,3-DICHLOROBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,3-DICHLOROBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,3-DICHLOROPROPANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,3-DICHLOROPROPANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,4-DICHLOROBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1,4-DICHLOROBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	1-CHLOROHEXANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	1-CHLOROHEXANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	2,2-DICHLOROPROPANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	2,2-DICHLOROPROPANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	2-BUTANONE	OV	SW8260	27000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	2-BUTANONE	OV	SW8260	130000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	2-CHLOROTOLUENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	2-CHLOROTOLUENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL

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ARA1003SS121680	16-Aug-01	108138	2-HEXANONE	OV	SW8260	27000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	2-HEXANONE	OV	SW8260	130000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	4-BROMOFLUOROBENZENE	OV	SW8260	67	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	4-BROMOFLUOROBENZENE	OV	SW8260	61.4	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	4-CHLOROTOLUENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	4-CHLOROTOLUENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	4-METHYL-2-PENTANONE	OV	SW8260	27000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	4-METHYL-2-PENTANONE	OV	SW8260	130000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	ACETONE	OV	SW8260	27000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	ACETONE	OV	SW8260	130000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	BENZENE	OV	SW8260	1600	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	BENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOCHLOROMETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOCHLOROMETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMODICHLOROMETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMODICHLOROMETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOFORM	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOFORM	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOMETHANE	OV	SW8260	13000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	BROMOMETHANE	OV	SW8260	67000	0.00	UG/KG	U	U		TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CARBON DISULFIDE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CARBON DISULFIDE	OV	SW8260	34000	0.00	UG/KG	U	U		TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CARBON TETRACHLORIDE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CARBON TETRACHLORIDE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROETHANE	OV	SW8260	13000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROETHANE	OV	SW8260	67000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROFORM	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROFORM	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROMETHANE	OV	SW8260	13000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CHLOROMETHANE	OV	SW8260	67000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CIS-1,2-DICHLOROETHENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CIS-1,2-DICHLOROETHENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	CIS-1,3-DICHLOROPROPENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	CIS-1,3-DICHLOROPROPENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	DIBROMOCHLOROMETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	DIBROMOCHLOROMETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	DIBROMOFLUOROMETHANE	OV	SW8260	70	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	DIBROMOFLUOROMETHANE	OV	SW8260	66.3	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	DIBROMOMETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	DIBROMOMETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	DICHLORODIFLUOROMETHANE	OV	SW8260	13000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	DICHLORODIFLUOROMETHANE	OV	SW8260	67000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	ETHYLBENZENE	OV	SW8260	670000	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL

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ARA1003SS121680	16-Aug-01	108138	ETHYLBENZENE	OV	SW8260	6700	0.00	UG/KG	X		TO USE RR1	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	HEXACHLOROBUTADIENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	HEXACHLOROBUTADIENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	IODOMETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	IODOMETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	ISOPROPYLBENZENE	OV	SW8260	5600	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	ISOPROPYLBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	M+P-XYLENE	OV	SW8260	1400000	0.00	UG/KG	E		TO USE RR1	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	M+P-XYLENE	OV	SW8260	560000	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	ETHER	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	ETHER	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	METHYLENE CHLORIDE	OV	SW8260	1800	0.00	UG/KG	J,	J,		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	METHYLENE CHLORIDE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	NAPHTHALENE	OV	SW8260	49000	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	NAPHTHALENE	OV	SW8260	56000	0.00	UG/KG			USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	N-BUTYLBENZENE	OV	SW8260	15000	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	N-BUTYLBENZENE	OV	SW8260	15000	0.00	UG/KG	J		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	N-PROPYLBENZENE	OV	SW8260	11000	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	N-PROPYLBENZENE	OV	SW8260	9800	0.00	UG/KG	J		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	O-XYLENE	OV	SW8260	130000	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	O-XYLENE	OV	SW8260	130000	0.00	UG/KG			USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	P-ISOPROPYLTOLUENE	OV	SW8260	9700	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	P-ISOPROPYLTOLUENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	SEC-BUTYLBENZENE	OV	SW8260	6200	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	SEC-BUTYLBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	STYRENE	OV	SW8260	35000	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	STYRENE	OV	SW8260	39000	0.00	UG/KG			USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TERT-BUTYLBENZENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TERT-BUTYLBENZENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TETRACHLOROETHENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TETRACHLOROETHENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TOLUENE	OV	SW8260	8400	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TOLUENE	OV	SW8260	9100	0.00	UG/KG	J		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TOLUENE-D8	OV	SW8260	71.4	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TOLUENE-D8	OV	SW8260	72	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRANS-1,2-DICHLOROETHENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRANS-1,2-DICHLOROETHENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRANS-1,3-DICHLOROPROPENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRANS-1,3-DICHLOROPROPENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRICHLOROETHENE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRICHLOROETHENE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRICHLOROFLUOROMETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRICHLOROFLUOROMETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRICHLOROTRIFLUOROETHANE	OV	SW8260	6700	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	TRICHLOROTRIFLUOROETHANE	OV	SW8260	34000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS121680	16-Aug-01	108138	VINYL ACETATE	OV	SW8260	27000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	VINYL ACETATE	OV	SW8260	130000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL

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ARA1003SS121680	16-Aug-01	108138	VINYL CHLORIDE	OV	SW8260	13000	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1003SS121680	16-Aug-01	108138	VINYL CHLORIDE	OV	SW8260	67000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1003SS120240	18-Aug-01	108178	AC-227	T-RAD	714R5	0.32	0.31	PCI/L		J		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	AC-228	T-RAD	713R6	5	35.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	AM-241	T-RAD	713R6	8	10.00	PCI/L	TI	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CO-60	T-RAD	713R6	7	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CS-137	T-RAD	713R6	-5	11.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	K-40	T-RAD	713R6	40	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	PA-231	T-RAD	713R6	-230	220.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	PA-234M	T-RAD	713R6	700	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	RA-226	T-RAD	783R3	1.01	0.23	PCI/L	Y1			TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	RA-228	T-RAD	724R6	1.2	0.45	PCI/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TH-228	T-RAD	714R5	0.2	0.24	PCI/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TH-229	T-RAD	714R5	10.1	2.40	PCI/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TH-230	T-RAD	714R5	0.11	0.12	PCI/L		J		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TH-232	T-RAD	714R5	0.002	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TH-234	T-RAD	713R6	-13	81.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	U-232	T-RAD	714R5	47.9	9.40	PCI/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	U-234	T-RAD	714R5	2.78	0.87	PCI/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	U-235	T-RAD	713R6	-1	36.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	U-235	T-RAD	714R5	-0.03	0.10	PCI/L	U	UJ		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	U-238	T-RAD	714R5	1.47	0.62	PCI/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108177	AC-227	RAD	714R5	0.38	0.14	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	AC-228	RAD	713R6	0.62	0.27	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	AM-241	RAD	713R6	0.04	0.11	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	BI-214	RAD	713R6	0.55	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	CO-60	RAD	713R6	-0.026	0.05	PCI/G	U			TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	CS-137	RAD	713R6	0.048	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	K-40	RAD	713R6	10.3	2.70	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	PA-231	RAD	713R6	-0.8	2.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	PA-234M	RAD	713R6	1.1	9.50	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	PB-212	RAD	713R6	0.86	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	PB-214	RAD	713R6	0.62	0.18	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	RA-226	RAD	783R3	1.34	0.39	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	TH-228	RAD	714R5	0.88	0.15	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	TH-229	RAD	714R5	2.86	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	TH-230	RAD	714R5	1.52	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	TH-232	RAD	714R5	0.74	0.12	PCI/G	LT			TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	TH-234	RAD	713R6	1.38	0.83	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	TL-208	RAD	713R6	0.26	0.11	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	TOTACTIV	RAD	704R5	12.9	4.50	PCI/G		J		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	U-232	RAD	714R5	2.8	0.68	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	U-234	RAD	714R5	1.11	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	U-235	RAD	713R6	0.12	0.31	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	U-235	RAD	714R5	0.086	0.05	PCI/G	LT			TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108177	U-238	RAD	714R5	1.09	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS120240	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1003SS120240	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.357	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	ACID	T-HER	SW8151	0.0147	0.00	MG/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.199	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.22	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0484	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	BARIUM	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.047	0.00	MG/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	COPPER	T-M	SW6010	0.035	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00455	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0471	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	LEAD	T-M	SW6010	0.1	0.00	MG/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.282	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.041	0.00	MG/L				TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.192	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARA1003SS120240	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00471	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0513	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS120240	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS120240	18-Aug-01	108178	ZINC	T-M	SW6010	2.1	0.00	MG/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	AC-227	T-RAD	714R5	0.87	0.43	PCI/L	LT	J		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	AC-228	T-RAD	713R6	0	31.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	AM-241	T-RAD	713R6	1	9.60	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CO-60	T-RAD	713R6	-0.8	8.20	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CS-137	T-RAD	713R6	0.6	7.40	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	K-40	T-RAD	713R6	-80	110.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	PA-231	T-RAD	713R6	30	220.00	PCI/L	U	UJ		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	PA-234M	T-RAD	713R6	-700	1600.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	RA-226	T-RAD	783R3	1.84	0.40	PCI/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	RA-228	T-RAD	724R6	0.84	0.46	PCI/L	LT			TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TH-228	T-RAD	714R5	0.11	0.17	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TH-229	T-RAD	714R5	10.1	2.00	PCI/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TH-230	T-RAD	714R5	0.32	0.12	PCI/L	LT	J		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TH-232	T-RAD	714R5	0.045	0.06	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TH-234	T-RAD	713R6	37	92.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	U-232	T-RAD	714R5	46.3	9.30	PCI/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	U-234	T-RAD	714R5	3.03	0.90	PCI/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	U-235	T-RAD	713R6	19	40.00	PCI/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	U-235	T-RAD	714R5	0.16	0.22	PCI/L	U			TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	U-238	T-RAD	714R5	2.82	0.87	PCI/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108177	AC-227	RAD	714R5	0.59	0.16	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	AC-228	RAD	713R6	1.03	0.35	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	AM-241	RAD	713R6	0.05	0.11	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	BI-214	RAD	713R6	0.84	0.28	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	CO-60	RAD	713R6	-0.05	0.11	PCI/G	U			TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	CS-137	RAD	713R6	0.088	0.09	PCI/G	TI			TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	K-40	RAD	713R6	14	3.50	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	PA-231	RAD	713R6	1	1.90	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	PA-234M	RAD	713R6	14	16.00	PCI/G	TI			TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	PB-212	RAD	713R6	0.73	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	PB-214	RAD	713R6	0.84	0.25	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	RA-226	RAD	783R3	1.51	0.29	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	TH-228	RAD	714R5	1.02	0.17	PCI/G		J		TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	TH-229	RAD	714R5	2.82	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	TH-230	RAD	714R5	3.53	0.48	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	TH-232	RAD	714R5	1.03	0.16	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	TH-234	RAD	713R6	1.15	0.72	PCI/G		J		TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	TL-208	RAD	713R6	0.29	0.11	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	TOTACTIV	RAD	704R5	12.2	4.40	PCI/G		J		TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	U-232	RAD	714R5	2.6	0.69	PCI/G				TRUE	TRUE	SOIL

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ARA1003SS060120	18-Aug-01	108177	U-234	RAD	714R5	1.6	0.30	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	U-235	RAD	713R6	0.3	0.37	PCI/G	TI	U		TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	U-235	RAD	714R5	0.12	0.06	PCI/G	LT			TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108177	U-238	RAD	714R5	1.81	0.33	PCI/G				TRUE	TRUE	SOIL
ARA1003SS060120	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.322	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	ACID	T-HER	SW8151	0.0166	0.00	MG/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.223	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.288	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0457	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.012	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	BARIUM	T-M	SW6010	1.5	0.00	MG/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.048	0.00	MG/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0048	0.00	MG/L	B	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	COPPER	T-M	SW6010	0.026	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00388	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0456	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	LEAD	T-M	SW6010	0.18	0.00	MG/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.298	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARA1003SS060120	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.03	0.00	MG/L				TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00431	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0469	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1003SS060120	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1003SS060120	18-Aug-01	108178	ZINC	T-M	SW6010	2.8	0.00	MG/L				TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	AC-227	T-RAD	714R5	-0.14	0.11	PCI/L	U	UJ		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	AC-228	T-RAD	713R6	-12	28.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	AM-241	T-RAD	713R6	-6.5	9.20	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CO-60	T-RAD	713R6	-5.6	9.20	PCI/L	U			TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CS-137	T-RAD	713R6	-1.8	8.20	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	K-40	T-RAD	713R6	60	130.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	PA-231	T-RAD	713R6	-30	220.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	PA-234M	T-RAD	713R6	100	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	RA-226	T-RAD	783R3	0.4	0.20	PCI/L	LT			TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	RA-228	T-RAD	724R6	0.57	0.42	PCI/L				TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TH-228	T-RAD	714R5	0.03	0.08	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TH-229	T-RAD	714R5	9.41	2.50	PCI/L				TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TH-230	T-RAD	714R5	0.31	0.19	PCI/L	LT			TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.023	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TH-234	T-RAD	713R6	-47	85.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	U-232	T-RAD	714R5	46.2	9.40	PCI/L				TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	U-234	T-RAD	714R5	1.67	0.65	PCI/L				TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	U-235	T-RAD	713R6	-6	40.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	U-235	T-RAD	714R5	0.06	0.11	PCI/L	U	UJ		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	U-238	T-RAD	714R5	0.99	0.49	PCI/L	LT			TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108177	AC-227	RAD	714R5	0.62	0.18	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	AC-228	RAD	713R6	1.39	0.31	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	AM-241	RAD	713R6	0.2	0.30	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	BI-212	RAD	713R6	1.01	0.85	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	BI-214	RAD	713R6	1.4	0.29	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	CO-60	RAD	713R6	0	0.05	PCI/G	U			TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	CS-137	RAD	713R6	0.005	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	K-40	RAD	713R6	8.9	1.90	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	PA-231	RAD	713R6	-0.5	1.80	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	PA-234M	RAD	713R6	7.4	7.30	PCI/G	TI			TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	PB-212	RAD	713R6	1.69	0.32	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	PB-214	RAD	713R6	1.51	0.29	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	RA-226	RAD	783R3	2.2	0.39	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	TH-228	RAD	714R5	1.63	0.25	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	TH-229	RAD	714R5	2.71	0.61	PCI/G				TRUE	TRUE	SOIL

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ARA1002SS122640	18-Aug-01	108177	TH-230	RAD	714R5	1.81	0.26	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	TH-232	RAD	714R5	1.55	0.23	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	TH-234	RAD	713R6	1.9	1.10	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	TL-208	RAD	713R6	0.45	0.11	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	TOTACTIV	RAD	704R5	13.8	4.30	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	U-232	RAD	714R5	2.64	0.68	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	U-234	RAD	714R5	1.63	0.30	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	U-235	RAD	713R6	-0.03	0.33	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	U-235	RAD	714R5	0.173	0.07	PCI/G	LT			TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108177	U-238	RAD	714R5	1.77	0.32	PCI/G				TRUE	TRUE	SOIL
ARA1002SS122640	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.321	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	ACID	T-HER	SW8151	0.0186	0.00	MG/L				TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.205	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.278	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0483	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.018	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	BARIUM	T-M	SW6010	1.1	0.00	MG/L				TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0032	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.0033	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0485	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1002SS122640	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.213	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.279	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	SILVER	T-M	SW6010	0.0048	0.00	MG/L	B	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.19	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00475	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0564	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS122640	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS122640	18-Aug-01	108178	ZINC	T-M	SW6010	0.66	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	AC-227	T-RAD	714R5	0.28	0.33	PCI/L		J		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	AC-228	T-RAD	713R6	22	35.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	AM-241	T-RAD	713R6	1	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CO-60	T-RAD	713R6	-2.2	9.30	PCI/L	U			TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CS-137	T-RAD	713R6	5.8	9.50	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	K-40	T-RAD	713R6	80	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	PA-231	T-RAD	713R6	70	230.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	PA-234M	T-RAD	713R6	1100	1600.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	RA-226	T-RAD	783R3	6.25	0.81	PCI/L	Y1			TRUE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	RA-228	T-RAD	724R6	0.71	0.89	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TH-228	T-RAD	714R5	0.03	0.12	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TH-229	T-RAD	714R5	8.8	2.50	PCI/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TH-230	T-RAD	714R5	0.92	0.35	PCI/L	LT			TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TH-232	T-RAD	714R5	-0.026	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TH-234	T-RAD	713R6	14	86.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	U-232	T-RAD	714R5	48	9.80	PCI/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	U-234	T-RAD	714R5	5.4	1.40	PCI/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	U-235	T-RAD	713R6	-22	37.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	U-235	T-RAD	714R5	0.25	0.29	PCI/L		J		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	U-238	T-RAD	714R5	5.9	1.50	PCI/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108177	AC-227	RAD	714R5	0.98	0.21	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	AC-228	RAD	713R6	0.35	0.38	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	AM-241	RAD	713R6	0.04	0.17	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	BI-214	RAD	713R6	1.46	0.39	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	CO-60	RAD	713R6	0	0.10	PCI/G	U			TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	CS-137	RAD	713R6	0.16	0.11	PCI/G	TI			TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	K-40	RAD	713R6	9.3	2.80	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	PA-231	RAD	713R6	-2.1	2.90	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	PA-234M	RAD	713R6	11	15.00	PCI/G	U	UJ		TRUE	TRUE	SOIL

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ARA1002SS121980	18-Aug-01	108177	PB-212	RAD	713R6	0.62	0.21	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	PB-214	RAD	713R6	1.78	0.40	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	RA-226	RAD	783R3	2.68	0.43	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	TH-228	RAD	714R5	0.7	0.13	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	TH-229	RAD	714R5	2.88	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	TH-230	RAD	714R5	16.8	2.10	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	TH-232	RAD	714R5	0.65	0.11	PCI/G	LT			TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	TH-234	RAD	713R6	0.87	0.82	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	TL-208	RAD	713R6	0.175	0.10	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	TOTACTIV	RAD	704R5	49.4	7.30	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	U-232	RAD	714R5	3.05	0.70	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	U-234	RAD	714R5	2.34	0.41	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	U-235	RAD	713R6	0.37	0.38	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	U-235	RAD	714R5	0.141	0.06	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108177	U-238	RAD	714R5	2.4	0.42	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS121980	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.329	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	ACID	T-HER	SW8151	0.0158	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.201	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.146	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.025	0.00	MG/L	J	J		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.045	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.016	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	BARIUM	T-M	SW6010	2.5	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0062	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00288	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0448	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1002SS121980	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	LEAD	T-M	SW6010	0.051	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.24	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.014	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.144	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00517	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0462	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121980	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121980	18-Aug-01	108178	ZINC	T-M	SW6010	1.9	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121800	16-Aug-01	108138	1,1,1,2-TETRACHLOROETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1,1,2-TETRACHLOROETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1,1-TRICHLOROETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1,1-TRICHLOROETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1,2,2-TETRACHLOROETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1,2,2-TETRACHLOROETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1,2-TRICHLOROETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1,2-TRICHLOROETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1-DICHLOROETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1-DICHLOROETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1-DICHLOROETHENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1-DICHLOROETHENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1-DICHLOROPROPENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,1-DICHLOROPROPENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,3-TRICHLOROBENZENE	OV	SW8260	10	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,3-TRICHLOROBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,3-TRICHLOROPROPANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,3-TRICHLOROPROPANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,4-TRICHLOROBENZENE	OV	SW8260	6.2	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,4-TRICHLOROBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,4-TRIMETHYLBENZENE	OV	SW8260	84	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2,4-TRIMETHYLBENZENE	OV	SW8260	730	0.00	UG/KG	J		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROPROPANE	OV	SW8260	17	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROPROPANE	OV	SW8260	5100	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL

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ARA1002SS121800	16-Aug-01	108138	1,2-DIBROMOETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2-DIBROMOETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2-DICHLOROBENZENE	OV	SW8260	12	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2-DICHLOROBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2-DICHLOROETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2-DICHLOROETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2-DICHLOROPROPANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,2-DICHLOROPROPANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,3,5-TRIMETHYLBENZENE	OV	SW8260	31	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,3,5-TRIMETHYLBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,3-DICHLOROBENZENE	OV	SW8260	7.1	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,3-DICHLOROBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,3-DICHLOROPROPANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,3-DICHLOROPROPANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,4-DICHLOROBENZENE	OV	SW8260	31	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1,4-DICHLOROBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	1-CHLOROHEXANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	1-CHLOROHEXANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	2,2-DICHLOROPROPANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	2,2-DICHLOROPROPANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	2-BUTANONE	OV	SW8260	35	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	2-BUTANONE	OV	SW8260	10000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	2-CHLOROTOLUENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	2-CHLOROTOLUENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	2-HEXANONE	OV	SW8260	35	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	2-HEXANONE	OV	SW8260	10000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	4-BROMOFLUOROBENZENE	OV	SW8260	66.4	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	4-BROMOFLUOROBENZENE	OV	SW8260	58.2	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	4-CHLOROTOLUENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	4-CHLOROTOLUENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	4-METHYL-2-PENTANONE	OV	SW8260	35	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	4-METHYL-2-PENTANONE	OV	SW8260	10000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	ACETONE	OV	SW8260	37	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	ACETONE	OV	SW8260	10000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	BENZENE	OV	SW8260	12	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	BENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOBENZENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOCHLOROMETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOCHLOROMETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMODICHLOROMETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMODICHLOROMETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOFORM	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOFORM	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOMETHANE	OV	SW8260	17	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	BROMOMETHANE	OV	SW8260	5100	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CARBON DISULFIDE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL

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ARA1002SS121800	16-Aug-01	108138	CARBON DISULFIDE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CARBON TETRACHLORIDE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CARBON TETRACHLORIDE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROBENZENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROETHANE	OV	SW8260	17	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROETHANE	OV	SW8260	5100	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROFORM	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROFORM	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROMETHANE	OV	SW8260	17	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CHLOROMETHANE	OV	SW8260	5100	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CIS-1,2-DICHLOROETHENE	OV	SW8260	2.4	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CIS-1,2-DICHLOROETHENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	CIS-1,3-DICHLOROPROPENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	CIS-1,3-DICHLOROPROPENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	DIBROMOCHLOROMETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	DIBROMOCHLOROMETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	DIBROMOFLUOROMETHANE	OV	SW8260	59	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	DIBROMOFLUOROMETHANE	OV	SW8260	63.2	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	DIBROMOMETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	DIBROMOMETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	DICHLORODIFLUOROMETHANE	OV	SW8260	17	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	DICHLORODIFLUOROMETHANE	OV	SW8260	5100	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	ETHYLBENZENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	ETHYLBENZENE	OV	SW8260	40000	0.00	UG/KG			USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	HEXACHLOROBUTADIENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	HEXACHLOROBUTADIENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	IODOMETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	IODOMETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	ISOPROPYLBENZENE	OV	SW8260	200	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	ISOPROPYLBENZENE	OV	SW8260	1300	0.00	UG/KG	J		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	M+P-XYLENE	OV	SW8260	1400	0.00	UG/KG	E		TO USE RR1	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	M+P-XYLENE	OV	SW8260	120000	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	ETHER	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	ETHER	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	METHYLENE CHLORIDE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	METHYLENE CHLORIDE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	NAPHTHALENE	OV	SW8260	38	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	NAPHTHALENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	N-BUTYLBENZENE	OV	SW8260	3.7	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	N-BUTYLBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	N-PROPYLBENZENE	OV	SW8260	64	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	N-PROPYLBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	O-XYLENE	OV	SW8260	1300	0.00	UG/KG	E		TO USE RR1	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	O-XYLENE	OV	SW8260	31000	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	P-ISOPROPYLTOLUENE	OV	SW8260	15	0.00	UG/KG				TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	P-ISOPROPYLTOLUENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL

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ARA1002SS121800	16-Aug-01	108138	SEC-BUTYLBENZENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	SEC-BUTYLBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	STYRENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	STYRENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TERT-BUTYLBENZENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TERT-BUTYLBENZENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TETRACHLOROETHENE	OV	SW8260	2.9	0.00	UG/KG	J	J		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TETRACHLOROETHENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TOLUENE	OV	SW8260	890	0.00	UG/KG	E	E	TO USE RR1	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TOLUENE	OV	SW8260	5700	0.00	UG/KG			USING THIS RESULT	TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TOLUENE-D8	OV	SW8260	57.8	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TOLUENE-D8	OV	SW8260	72.8	0.00	UG/KG			SURROGATE RECOVERY	FALSE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRANS-1,2-DICHLOROETHENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRANS-1,2-DICHLOROETHENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRANS-1,3-DICHLOROPROPENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRANS-1,3-DICHLOROPROPENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRICHLOROETHENE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRICHLOROETHENE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRICHLOROFLUOROMETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRICHLOROFLUOROMETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRICHLOROTRIFLUOROETHANE	OV	SW8260	8.7	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	TRICHLOROTRIFLUOROETHANE	OV	SW8260	2500	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	VINYL ACETATE	OV	SW8260	35	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	VINYL ACETATE	OV	SW8260	10000	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121800	16-Aug-01	108138	VINYL CHLORIDE	OV	SW8260	17	0.00	UG/KG	U	U		TRUE	TRUE	SOIL
ARA1002SS121800	16-Aug-01	108138	VINYL CHLORIDE	OV	SW8260	5100	0.00	UG/KG	U		USING REG	TRUE	FALSE	SOIL
ARA1002SS121320	18-Aug-01	108178	AC-227	T-RAD	714R5	0.18	0.33	PCI/L	U	UJ		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	AC-228	T-RAD	713R6	12	32.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	AM-241	T-RAD	713R6	-5.8	9.90	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	CO-60	T-RAD	713R6	1.6	7.40	PCI/L	U			TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	CS-137	T-RAD	713R6	-3.2	7.60	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	K-40	T-RAD	713R6	140	140.00	PCI/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	PA-231	T-RAD	713R6	80	200.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	PA-234M	T-RAD	713R6	-900	1600.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	RA-226	T-RAD	783R3	0.82	0.21	PCI/L	LT			TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	RA-228	T-RAD	724R6	1.19	0.51	PCI/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TH-228	T-RAD	714R5	0.03	0.12	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TH-229	T-RAD	714R5	9.78	2.60	PCI/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TH-230	T-RAD	714R5	0.79	0.34	PCI/L	LT			TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TH-232	T-RAD	714R5	0.022	0.06	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TH-234	T-RAD	713R6	24	79.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	U-232	T-RAD	714R5	43.6	9.90	PCI/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	U-234	T-RAD	714R5	11.2	2.40	PCI/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	U-235	T-RAD	713R6	-6	39.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	U-235	T-RAD	714R5	0.82	0.50	PCI/L	LT	J		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	U-238	T-RAD	714R5	11.5	2.40	PCI/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108177	AC-227	RAD	714R5	0.5	0.14	PCI/G	LT			TRUE	TRUE	SOIL

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ARA1002SS121320	18-Aug-01	108177	AC-228	RAD	713R6	0.49	0.40	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	AM-241	RAD	713R6	0.12	0.13	PCI/G	TI	UJ		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	BI-214	RAD	713R6	0.87	0.34	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	CO-60	RAD	713R6	-0.044	0.07	PCI/G	U			TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	CS-137	RAD	713R6	0	0.07	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	K-40	RAD	713R6	5.8	2.40	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	PA-231	RAD	713R6	-3.2	2.40	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	PA-234M	RAD	713R6	10	18.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	PB-212	RAD	713R6	0.48	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	PB-214	RAD	713R6	0.95	0.27	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	RA-226	RAD	783R3	0.99	0.48	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	TH-228	RAD	714R5	0.65	0.12	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	TH-229	RAD	714R5	3.19	0.59	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	TH-230	RAD	714R5	6.53	0.85	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	TH-232	RAD	714R5	0.534	0.10	PCI/G	LT			TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	TH-234	RAD	713R6	2.4	0.93	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	TL-208	RAD	713R6	0.152	0.10	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	TOTACTIV	RAD	704R5	26.5	5.30	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	U-232	RAD	714R5	3.09	0.69	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	U-234	RAD	714R5	1.86	0.34	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	U-235	RAD	713R6	0.08	0.35	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	U-235	RAD	714R5	0.18	0.07	PCI/G	LT			TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108177	U-238	RAD	714R5	2.02	0.36	PCI/G				TRUE	TRUE	SOIL
ARA1002SS121320	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.34	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	ACID	T-HER	SW8151	0.019	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.215	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.289	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0428	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	BARIUM	T-M	SW6010	0.96	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1002SS121320	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00307	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0418	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	LEAD	T-M	SW6010	0.12	0.00	MG/L				TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.216	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.298	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.204	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00457	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.044	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS121320	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS121320	18-Aug-01	108178	ZINC	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	AC-227	T-RAD	714R5	2.5	0.85	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	AC-227	T-RAD	714R6	0.47	0.17	PCI/L	LT			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Ac-227		714R6	0.47	0.17	PCI/L	LT			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	AC-228	T-RAD	713R6	-10	32.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	AC-228	T-RAD	713R6	1	38.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Ac-228		713R6	1	38.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	AM-241	T-RAD	713R6	10.3	9.40	PCI/L	TI			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	AM-241	T-RAD	713R6	-2.3	9.10	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Am-241		713R6	-2.3	9.10	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	CO-60	T-RAD	713R6	-2.4	8.60	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	CO-60	T-RAD	713R6	-7	12.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Co-60		713R6	-7	12.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	CS-137	T-RAD	713R6	-0.6	7.90	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	CS-137	T-RAD	713R6	-7.2	9.60	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Cs-137		713R6	-7.2	9.60	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	K-40	T-RAD	713R6	0	110.00	PCI/L	U	U		TRUE	TRUE	E

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ARA1002SS060180	18-Aug-01	111157	K-40	T-RAD	713R6	-60	150.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	PA-231	T-RAD	713R6	30	220.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	PA-231	T-RAD	713R6	-90	200.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Pa-231		713R6	-90	200.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	PA-234M	T-RAD	713R6	300	1500.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	PA-234M	T-RAD	713R6	-100	1600.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Pa-234m		713R6	-100	1600.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	RA-226	T-RAD	783R3	34.8	3.60	PCI/L		J		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	RA-226	T-RAD	713R6	60	170.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	RA-226	T-RAD	783R3	3.72	0.66	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Ra-226		713R6	60	170.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	111157	Ra-226		783R3	3.72	0.66	PCI/L				TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	RA-228	T-RAD	724R6	0.88	0.49	PCI/L	LT			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Ra-228		724R6	0.7	1.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	TH-228	T-RAD	714R5	0.16	0.28	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	TH-228	T-RAD	714R6	0.27	0.11	PCI/L	LT			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Th-228		714R6	0.27	0.11	PCI/L	LT			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	TH-229	T-RAD	714R5	10.5	2.40	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	TH-229	T-RAD	714R6	5.82	1.20	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Th-229		714R6	5.82	1.20	PCI/L				TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	TH-230	T-RAD	714R5	0.59	0.26	PCI/L	LT	J		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	TH-230	T-RAD	714R6	8.1	1.10	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Th-230		714R6	8.1	1.10	PCI/L				TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	TH-232	T-RAD	714R5	0.035	0.07	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	TH-232	T-RAD	714R6	0.128	0.05	PCI/L	LT			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Th-232		714R6	0.128	0.05	PCI/L	LT			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	TH-234	T-RAD	713R6	-38	79.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	TH-234	T-RAD	713R6	21	64.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	Th-234		713R6	21	64.00	PCI/L	U			TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	111157	TotActiv		704R5	60	16.00	PCI/L				TRUE	TRUE	LIQUID
ARA1002SS060180	18-Aug-01	108178	U-232	T-RAD	714R5	29.9	10.00	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	U-232	T-RAD	714R6	24.3	5.40	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	U-234	T-RAD	714R5	103	15.00	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	U-234	T-RAD	714R6	7.6	1.50	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	U-235	T-RAD	713R6	-6	43.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	U-235	T-RAD	714R5	5.8	1.60	PCI/L		U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	U-235	T-RAD	713R6	27	36.00	PCI/L	U			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	U-235	T-RAD	714R6	0.56	0.32	PCI/L	LT			TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	U-238	T-RAD	714R5	97	14.00	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	111157	U-238	T-RAD	714R6	8.9	1.70	PCI/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108177	AC-227	RAD	714R5	5.65	0.81	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	AC-228	RAD	713R6	0.94	0.41	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	AM-241	RAD	713R6	0.28	0.28	PCI/G	TI	UJ		TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	BI-212	RAD	713R6	1.6	1.40	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	BI-214	RAD	713R6	13	2.70	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	CO-60	RAD	713R6	-0.06	0.11	PCI/G	U			TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	CS-137	RAD	713R6	0.12	0.16	PCI/G	U	U		TRUE	TRUE	SOIL

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ARA1002SS060180	18-Aug-01	108177	K-40	RAD	713R6	15	3.50	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	PA-231	RAD	713R6	5.1	2.60	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	PA-234M	RAD	713R6	13	19.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	PB-212	RAD	713R6	0.95	0.26	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	PB-214	RAD	713R6	15.4	2.60	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	RA-226	RAD	783R3	11	1.40	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TH-227	RAD	713R6	7.1	1.60	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TH-228	RAD	714R5	0.82	0.14	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TH-229	RAD	714R5	2.85	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TH-230	RAD	714R5	129	16.00	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TH-232	RAD	714R5	1.1	0.17	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TH-234	RAD	713R6	9.5	2.30	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TL-208	RAD	713R6	0.3	0.14	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	TOTACTIV	RAD	704R5	272	28.00	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	U-232	RAD	714R5	30.1	6.60	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	U-234	RAD	714R5	10.9	2.10	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	U-235	RAD	713R6	2.8	1.00	PCI/G	TI			TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	U-235	RAD	714R5	0.37	0.29	PCI/G	LT			TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108177	U-238	RAD	714R5	9.8	1.90	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060180	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.345	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	ACID	T-HER	SW8151	0.0185	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.224	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.302	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.046	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	BARIUM	T-M	SW6010	0.8	0.00	MG/L		U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.046	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	COPPER	T-M	SW6010	0.013	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00483	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0453	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARA1002SS060180	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	LEAD	T-M	SW6010	0.012	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.224	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.31	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	SILVER	T-M	SW6010	0.0025	0.00	MG/L	B	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.222	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00478	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0504	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060180	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060180	18-Aug-01	108178	ZINC	T-M	SW6010	0.47	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	AC-227	T-RAD	714R5	0.16	0.31	PCI/L	U	UJ		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	AC-228	T-RAD	713R6	7	33.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	AM-241	T-RAD	713R6	-3	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	CO-60	T-RAD	713R6	6.6	9.90	PCI/L	U			TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	CS-137	T-RAD	713R6	-2.6	8.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	K-40	T-RAD	713R6	-40	160.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	PA-231	T-RAD	713R6	0	210.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	PA-234M	T-RAD	713R6	1300	1500.00	PCI/L	TI			TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	RA-226	T-RAD	783R3	12.3	1.40	PCI/L	Y1			TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	RA-228	T-RAD	724R6	1.3	0.60	PCI/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TH-228	T-RAD	714R5	0.03	0.11	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TH-229	T-RAD	714R5	8.43	2.60	PCI/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TH-230	T-RAD	714R5	0.27	0.19	PCI/L	LT			TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TH-232	T-RAD	714R5	0.09	0.14	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TH-234	T-RAD	713R6	21	95.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	U-232	T-RAD	714R5	47.4	9.30	PCI/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	U-234	T-RAD	714R5	26.8	4.20	PCI/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	U-235	T-RAD	713R6	8	36.00	PCI/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	U-235	T-RAD	714R5	2.18	0.73	PCI/L		J		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	U-238	T-RAD	714R5	26.1	4.10	PCI/L				TRUE	TRUE	E

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ARA1002SS060080	18-Aug-01	108177	AC-227	RAD	714R5	1.88	0.33	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	AC-228	RAD	713R6	0.61	0.20	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	AM-241	RAD	713R6	0.3	0.37	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	BI-212	RAD	713R6	0.65	0.63	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	BI-214	RAD	713R6	2.63	0.68	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	CO-60	RAD	713R6	-0.007	0.05	PCI/G	U			TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	CS-137	RAD	713R6	-0.009	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	K-40	RAD	713R6	8.8	1.90	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	PA-231	RAD	713R6	3.9	1.90	PCI/G	TI			TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	PA-234M	RAD	713R6	8	8.80	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	PB-212	RAD	713R6	0.8	0.18	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	PB-214	RAD	713R6	3.56	0.62	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	RA-226	RAD	783R3	4.73	0.66	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TH-227	RAD	713R6	1.77	0.55	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TH-228	RAD	714R5	0.86	0.15	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TH-229	RAD	714R5	2.98	0.60	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TH-230	RAD	714R5	39.3	4.90	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TH-232	RAD	714R5	0.71	0.12	PCI/G	LT			TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TH-234	RAD	713R6	1.68	0.90	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TL-208	RAD	713R6	0.212	0.07	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	TOTACTIV	RAD	704R5	86	10.00	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	U-232	RAD	714R5	2.84	0.67	PCI/G				TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	U-234	RAD	714R5	3.55	0.55	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	U-235	RAD	713R6	0.96	0.49	PCI/G	TI	J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	U-235	RAD	714R5	0.295	0.09	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108177	U-238	RAD	714R5	3.78	0.58	PCI/G		J		TRUE	TRUE	SOIL
ARA1002SS060080	18-Aug-01	108178	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.305	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	ACID	T-HER	SW8151	0.0189	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	2-FLUOROBIPHENYL	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	2-FLUOROPHENOL	T-OS	SW8270	0.277	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0541	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	BARIUM	T-M	SW6010	0.99	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	CADMIUM	T-M	SW6010	0.081	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1002SS060080	18-Aug-01	108178	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	COPPER	T-M	SW6010	0.055	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	DECACHLOROBIPHENYL	T-PES	SW8081	0.00488	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0558	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	LEAD	T-M	SW6010	0.072	0.00	MG/L				TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	NITROBENZENE-D5	T-OS	SW8270	0.208	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	PHENOL-D5	T-OS	SW8270	0.284	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	SILVER	T-M	SW6010	0.0028	0.00	MG/L	B	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TERPHENYL-D14	T-OS	SW8270	0.208	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00478	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	TOLUENE-D8	T-OV	SW8260	0.0567	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1002SS060080	18-Aug-01	108178	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1002SS060080	18-Aug-01	108178	ZINC	T-M	SW6010	0.99	0.00	MG/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	AC-227	T-RAD	714R5	0.29	0.23	PCI/L		J		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	AC-228	T-RAD	713R6	12	33.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	AM-241	T-RAD	713R6	6	8.90	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	CO-60	T-RAD	713R6	-5	12.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	CS-137	T-RAD	713R6	-9.7	7.80	PCI/L	U	UJ		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	K-40	T-RAD	713R6	-90	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	PA-231	T-RAD	713R6	-50	240.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	PA-234M	T-RAD	713R6	600	1600.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	RA-226	T-RAD	783R3	1.11	0.20	PCI/L	Y1			TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	RA-228	T-RAD	724R6	1.61	0.61	PCI/L		J		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	TH-228	T-RAD	714R5	-0.09	0.17	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	TH-229	T-RAD	714R5	9.96	2.00	PCI/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	TH-230	T-RAD	714R5	0.121	0.09	PCI/L		J		TRUE	TRUE	E

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ARA1001SS162300	17-Aug-01	108183	TH-232	T-RAD	714R5	0.052	0.05	PCI/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	TH-234	T-RAD	713R6	-62	67.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	U-232	T-RAD	714R5	51.8	10.00	PCI/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	U-234	T-RAD	714R5	2.34	0.94	PCI/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	U-235	T-RAD	714R5	0.37	0.38	PCI/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	U-235	T-RAD	713R6	6	36.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108183	U-238	T-RAD	714R5	2.62	1.00	PCI/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108179	AC-227	RAD	714R5	0.38	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	AC-228	RAD	713R6	0.7	0.23	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	AM-241	RAD	713R6	-0.06	0.18	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	BI-214	RAD	713R6	0.68	0.20	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	CO-60	RAD	713R6	0.014	0.05	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	CS-137	RAD	713R6	0.053	0.06	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	K-40	RAD	713R6	12.4	2.50	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	PA-231	RAD	713R6	-0.2	1.60	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	PA-234M	RAD	713R6	3.2	8.60	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	PB-212	RAD	713R6	1.03	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	PB-214	RAD	713R6	0.99	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	RA-226	RAD	783R3	0.97	0.19	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	TH-228	RAD	714R5	0.81	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	TH-229	RAD	714R5	2	0.62	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	TH-230	RAD	714R5	1.45	0.23	PCI/G		J		TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	TH-232	RAD	714R5	0.77	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	TH-234	RAD	713R6	1.35	0.93	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	TL-208	RAD	713R6	0.244	0.08	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	TOTACTIV	RAD	704R5	7.8	4.20	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	U-232	RAD	714R5	3.04	0.70	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	U-234	RAD	714R5	0.99	0.21	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	U-235	RAD	713R6	-0.01	0.34	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	U-235	RAD	714R5	0.026	0.03	PCI/G				TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108179	U-238	RAD	714R5	0.94	0.20	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS162300	17-Aug-01	108171	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.288	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	ACID	T-HER	SW8151	0.0215	0.00	MG/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	2-FLUOROBIPHENYL	T-OS	SW8270	0.198	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	2-FLUOROPHENOL	T-OS	SW8270	0.234	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	3+4-METHYLPHENOL	T-OS	SW8270	0.0096	0.00	MG/L	J	J		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0487	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1001SS162300	17-Aug-01	108171	ARSENIC	T-M	SW6010	0.011	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	BARIUM	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	DECACHLOROBIPHENYL	T-PES	SW8081	0.004	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0463	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	LEAD	T-M	SW6010	0.11	0.00	MG/L				TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	NITROBENZENE-D5	T-OS	SW8270	0.189	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	PHENOL-D5	T-OS	SW8270	0.258	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	TERPHENYL-D14	T-OS	SW8270	0.178	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00505	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	TOLUENE-D8	T-OV	SW8260	0.0509	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS162300	17-Aug-01	108171	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS162300	17-Aug-01	108171	ZINC	T-M	SW6010	4	0.00	MG/L				TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	AC-227	T-RAD	714R5	0.47	0.32	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	AC-228	T-RAD	713R6	-5	35.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	AM-241	T-RAD	713R6	-6	8.70	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	CO-60	T-RAD	713R6	-3	12.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	CS-137	T-RAD	713R6	-3.2	9.10	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	K-40	T-RAD	713R6	20	160.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	PA-231	T-RAD	713R6	-150	220.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	PA-234M	T-RAD	713R6	1800	1500.00	PCI/L	TI			TRUE	TRUE	E

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ARA1001SS141100	17-Aug-01	108183	RA-226	T-RAD	783R3	1.63	0.30	PCI/L	Y1			TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	RA-228	T-RAD	724R6	1.39	0.56	PCI/L		J		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	TH-228	T-RAD	714R5	-0.03	0.16	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	TH-229	T-RAD	714R5	9.67	2.00	PCI/L				TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	TH-230	T-RAD	714R5	0.18	0.09	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	TH-232	T-RAD	714R5	0	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	TH-234	T-RAD	713R6	-9	79.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	U-232	T-RAD	714R5	50.2	10.00	PCI/L				TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	U-234	T-RAD	714R5	2.03	0.87	PCI/L		J		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	U-235	T-RAD	714R5	-0.02	0.15	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	U-235	T-RAD	713R6	-16	40.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108183	U-238	T-RAD	714R5	1.71	0.79	PCI/L				TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108179	AC-227	RAD	714R5	0.48	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	AC-228	RAD	713R6	0.34	0.37	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	AM-241	RAD	713R6	0.1	0.39	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	BI-212	RAD	713R6	1.7	1.30	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	BI-214	RAD	713R6	0.57	0.29	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	CO-60	RAD	713R6	-0.038	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	CS-137	RAD	713R6	0.024	0.08	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	K-40	RAD	713R6	8.9	2.70	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	PA-231	RAD	713R6	-0.5	2.70	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	PA-234M	RAD	713R6	2	16.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	PB-212	RAD	713R6	0.69	0.23	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	PB-214	RAD	713R6	0.72	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	RA-226	RAD	783R3	0.82	0.20	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	TH-228	RAD	714R5	0.84	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	TH-229	RAD	714R5	2.37	0.61	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	TH-230	RAD	714R5	3.53	0.49	PCI/G		J		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	TH-232	RAD	714R5	0.73	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	TH-234	RAD	713R6	1.5	1.30	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	TL-208	RAD	713R6	0.24	0.12	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	TOTACTIV	RAD	704R5	16.1	4.30	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	U-232	RAD	714R5	2.87	0.68	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	U-234	RAD	714R5	0.93	0.19	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	U-235	RAD	713R6	0.07	0.50	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	U-235	RAD	714R5	0.079	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108179	U-238	RAD	714R5	1.02	0.20	PCI/G				TRUE	TRUE	SOIL
ARA1001SS141100	17-Aug-01	108171	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.29	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	ACID	T-HER	SW8151	0.0187	0.00	MG/L				TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1001SS141100	17-Aug-01	108171	2-FLUOROBIPHENYL	T-OS	SW8270	0.211	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	2-FLUOROPHENOL	T-OS	SW8270	0.269	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0496	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	ARSENIC	T-M	SW6010	0.011	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	BARIUM	T-M	SW6010	0.84	0.00	MG/L		U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	CADMIUM	T-M	SW6010	0.27	0.00	MG/L				TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	COPPER	T-M	SW6010	0.036	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	DECACHLOROBIPHENYL	T-PES	SW8081	0.00448	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.047	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	LEAD	T-M	SW6010	0.22	0.00	MG/L				TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	NITROBENZENE-D5	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	PHENOL-D5	T-OS	SW8270	0.275	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	SELENIUM	T-M	SW6010	0.025	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	TERPHENYL-D14	T-OS	SW8270	0.188	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00503	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	TOLUENE-D8	T-OV	SW8260	0.0527	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS141100	17-Aug-01	108171	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS141100	17-Aug-01	108171	ZINC	T-M	SW6010	21	0.00	MG/L				TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	AC-227	T-RAD	714R5	0.32	0.51	PCI/L	U	UJ		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	AC-228	T-RAD	713R6	-32	36.00	PCI/L	U	U		TRUE	TRUE	E

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ARA1001SS140280	17-Aug-01	108183	AM-241	T-RAD	713R6	-3	10.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	CO-60	T-RAD	713R6	1.1	8.50	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	CS-137	T-RAD	713R6	-10.4	9.30	PCI/L	U	UJ		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	K-40	T-RAD	713R6	-50	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	PA-231	T-RAD	713R6	150	230.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	PA-234M	T-RAD	713R6	300	1800.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	RA-226	T-RAD	783R3	0.33	0.17	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	RA-228	T-RAD	724R6	1.16	0.50	PCI/L		J		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	TH-228	T-RAD	714R5	0.01	0.20	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	TH-229	T-RAD	714R5	10.3	2.50	PCI/L				TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	TH-230	T-RAD	714R5	0.42	0.23	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	TH-232	T-RAD	714R5	0.18	0.14	PCI/L	LT			TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	TH-234	T-RAD	713R6	-16	89.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	U-232	T-RAD	714R5	46.8	8.80	PCI/L				TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	U-234	T-RAD	714R5	5.2	1.10	PCI/L				TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	U-235	T-RAD	714R5	0.49	0.27	PCI/L	LT			TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	U-235	T-RAD	713R6	-36	36.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108183	U-238	T-RAD	714R5	3.58	0.83	PCI/L				TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108179	AC-227	RAD	714R5	0.33	0.13	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	AC-228	RAD	713R6	0.61	0.17	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	AM-241	RAD	713R6	0.01	0.25	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	BI-212	RAD	713R6	0.75	0.44	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	BI-214	RAD	713R6	0.77	0.19	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	CO-60	RAD	713R6	-0.033	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	CS-137	RAD	713R6	0.029	0.04	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	K-40	RAD	713R6	15.4	2.90	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	PA-231	RAD	713R6	0.6	1.30	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	PA-234M	RAD	713R6	0.8	6.60	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	PB-212	RAD	713R6	0.71	0.16	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	PB-214	RAD	713R6	0.77	0.17	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	RA-226	RAD	783R3	0.15	0.27	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	TH-228	RAD	714R5	1.04	0.19	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	TH-229	RAD	714R5	2.13	0.64	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	TH-230	RAD	714R5	1.13	0.19	PCI/G		J		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	TH-232	RAD	714R5	0.9	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	TH-234	RAD	713R6	0.14	0.83	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	TL-208	RAD	713R6	0.174	0.06	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	TOTACTIV	RAD	704R5	10.2	4.10	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	U-232	RAD	714R5	3.1	0.66	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	U-234	RAD	714R5	0.84	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	U-235	RAD	713R6	-0.02	0.28	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	U-235	RAD	714R5	0.029	0.03	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108179	U-238	RAD	714R5	0.74	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140280	17-Aug-01	108171	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1001SS140280	17-Aug-01	108171	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.271	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	ACID	T-HER	SW8151	0.0189	0.00	MG/L				TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	2-FLUOROBIPHENYL	T-OS	SW8270	0.203	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	2-FLUOROPHENOL	T-OS	SW8270	0.261	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0464	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	BARIUM	T-M	SW6010	1.5	0.00	MG/L				TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	DECACHLOROBIPHENYL	T-PES	SW8081	0.00353	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0473	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	LEAD	T-M	SW6010	0.014	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	NITROBENZENE-D5	T-OS	SW8270	0.195	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	PHENOL-D5	T-OS	SW8270	0.265	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	TERPHENYL-D14	T-OS	SW8270	0.186	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.0051	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140280	17-Aug-01	108171	TOLUENE-D8	T-OV	SW8260	0.049	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARA1001SS140280	17-Aug-01	108171	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140280	17-Aug-01	108171	ZINC	T-M	SW6010	0.86	0.00	MG/L				TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	AC-227	T-RAD	714R5	-0.02	0.25	PCI/L	U	UJ		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	AC-228	T-RAD	713R6	-8	35.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	AM-241	T-RAD	713R6	-1.8	8.90	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	CO-60	T-RAD	713R6	2.4	8.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	CS-137	T-RAD	713R6	1.3	7.20	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	K-40	T-RAD	713R6	-60	110.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	PA-231	T-RAD	713R6	-30	220.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	PA-234M	T-RAD	713R6	-800	1300.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	RA-226	T-RAD	783R3	1.28	0.54	PCI/L	Y1			TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	RA-228	T-RAD	724R6	1.52	0.62	PCI/L		J		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	TH-228	T-RAD	714R5	0.01	0.15	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	TH-229	T-RAD	714R5	9.58	2.00	PCI/L				TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	TH-230	T-RAD	714R5	0.198	0.10	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	TH-232	T-RAD	714R5	0.028	0.03	PCI/L	LT			TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	TH-234	T-RAD	713R6	24	80.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	U-232	T-RAD	714R5	47.3	10.00	PCI/L				TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	U-234	T-RAD	714R5	1.77	0.85	PCI/L		J		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	U-235	T-RAD	714R5	0.17	0.26	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	U-235	T-RAD	713R6	6	37.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108183	U-238	T-RAD	714R5	1.51	0.78	PCI/L				TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108179	AC-227	RAD	714R5	0.36	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	AC-228	RAD	713R6	0.5	0.31	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	AM-241	RAD	713R6	0.17	0.39	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	BI-214	RAD	713R6	0.54	0.32	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	CO-60	RAD	713R6	-0.07	0.12	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	CS-137	RAD	713R6	0.03	0.10	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	K-40	RAD	713R6	12	3.10	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	PA-231	RAD	713R6	-0.2	2.90	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	PA-234M	RAD	713R6	10	17.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	PB-212	RAD	713R6	0.74	0.23	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	PB-214	RAD	713R6	0.59	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	RA-226	RAD	783R3	0.73	0.19	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	TH-228	RAD	714R5	0.73	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	TH-229	RAD	714R5	2	0.65	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	TH-230	RAD	714R5	0.75	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	TH-232	RAD	714R5	0.69	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	TH-234	RAD	713R6	0.5	1.50	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	TL-208	RAD	713R6	0.25	0.12	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	TOTACTIV	RAD	704R5	10.8	4.80	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	U-232	RAD	714R5	3.04	0.67	PCI/G				TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	U-234	RAD	714R5	0.72	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	U-235	RAD	713R6	-0.2	0.52	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108179	U-235	RAD	714R5	0.097	0.05	PCI/G	LT			TRUE	TRUE	SOIL

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ARA1001SS140140	17-Aug-01	108179	U-238	RAD	714R5	0.71	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS140140	17-Aug-01	108171	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.271	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	ACID	T-HER	SW8151	0.0206	0.00	MG/L				TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	2-FLUOROBIPHENYL	T-OS	SW8270	0.2	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	2-FLUOROPHENOL	T-OS	SW8270	0.283	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0472	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	ARSENIC	T-M	SW6010	0.018	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	BARIUM	T-M	SW6010	1.4	0.00	MG/L				TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	DECACHLOROBIPHENYL	T-PES	SW8081	0.00179	0.00	MG/L	*		SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0469	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	NITROBENZENE-D5	T-OS	SW8270	0.186	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	PHENOL-D5	T-OS	SW8270	0.282	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1001SS140140	17-Aug-01	108171	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	TERPHENYL-D14	T-OS	SW8270	0.174	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.0049	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	TOLUENE-D8	T-OV	SW8260	0.0534	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS140140	17-Aug-01	108171	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS140140	17-Aug-01	108171	ZINC	T-M	SW6010	0.14	0.00	MG/L		U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	AC-227	T-RAD	714R5	0.22	0.18	PCI/L		J		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	AC-228	T-RAD	713R6	8	38.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	AM-241	T-RAD	713R6	-1.3	8.90	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	CO-60	T-RAD	713R6	1	11.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	CS-137	T-RAD	713R6	-5.2	7.80	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	K-40	T-RAD	713R6	70	170.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	PA-231	T-RAD	713R6	30	200.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	PA-234M	T-RAD	713R6	300	1700.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	RA-226	T-RAD	783R3	1	0.21	PCI/L	Y1			TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	RA-228	T-RAD	724R6	0.9	0.56	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	TH-228	T-RAD	714R5	-0.1	0.12	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	TH-229	T-RAD	714R5	10.1	2.00	PCI/L				TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	TH-230	T-RAD	714R5	0.3	0.10	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	TH-232	T-RAD	714R5	0	0.05	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	TH-234	T-RAD	713R6	-20	94.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	U-232	T-RAD	714R5	49.9	10.00	PCI/L				TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	U-234	T-RAD	714R5	0.92	0.58	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	U-235	T-RAD	714R5	0.04	0.17	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	U-235	T-RAD	713R6	-17	37.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108183	U-238	T-RAD	714R5	0.88	0.55	PCI/L	LT			TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108179	AC-227	RAD	714R5	0.44	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	AC-228	RAD	713R6	1.08	0.56	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	AM-241	RAD	713R6	0.07	0.13	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	BI-214	RAD	713R6	0.79	0.40	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	CO-60	RAD	713R6	-0.07	0.15	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	CS-137	RAD	713R6	0.14	0.16	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	K-40	RAD	713R6	22.5	6.20	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	PA-231	RAD	713R6	-3	2.90	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	PA-234M	RAD	713R6	9	24.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	PB-212	RAD	713R6	0.9	0.30	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	PB-214	RAD	713R6	0.89	0.30	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	RA-226	RAD	783R3	1	0.25	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	TH-228	RAD	714R5	1.11	0.19	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	TH-229	RAD	714R5	2.33	0.61	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	TH-230	RAD	714R5	1.78	0.26	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	TH-232	RAD	714R5	1.05	0.17	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	TH-234	RAD	713R6	1.2	1.20	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	TL-208	RAD	713R6	0.24	0.16	PCI/G				TRUE	TRUE	SOIL

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ARA1001SS081200	17-Aug-01	108179	TOTACTIV	RAD	704R5	12.6	4.10	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	U-232	RAD	714R5	2.74	0.67	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	U-234	RAD	714R5	1.11	0.22	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	U-235	RAD	713R6	-0.05	0.47	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	U-235	RAD	714R5	0.128	0.06	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108179	U-238	RAD	714R5	1.21	0.23	PCI/G				TRUE	TRUE	SOIL
ARA1001SS081200	17-Aug-01	108171	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.28	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	ACID	T-HER	SW8151	0.0127	0.00	MG/L				TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	2-FLUOROBIPHENYL	T-OS	SW8270	0.181	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	2-FLUOROPHENOL	T-OS	SW8270	0.239	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0482	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	ARSENIC	T-M	SW6010	0.0098	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	BARIUM	T-M	SW6010	0.85	0.00	MG/L		U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	CADMIUM	T-M	SW6010	0.0077	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	DECACHLOROBIPHENYL	T-PES	SW8081	0.00489	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0457	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	LEAD	T-M	SW6010	0.0062	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	NITROBENZENE-D5	T-OS	SW8270	0.174	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E

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ARA1001SS081200	17-Aug-01	108171	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	PHENOL-D5	T-OS	SW8270	0.248	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	TERPHENYL-D14	T-OS	SW8270	0.184	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00504	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	TOLUENE-D8	T-OV	SW8260	0.0536	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS081200	17-Aug-01	108171	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS081200	17-Aug-01	108171	ZINC	T-M	SW6010	0.44	0.00	MG/L		U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	AC-227	T-RAD	714R5	0	0.26	PCI/L	U	UJ		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	AC-228	T-RAD	713R6	-2	31.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	AM-241	T-RAD	713R6	-0.7	9.80	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	CO-60	T-RAD	713R6	-2.4	8.30	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	CS-137	T-RAD	713R6	5.1	8.20	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	K-40	T-RAD	713R6	0	120.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	PA-231	T-RAD	713R6	90	230.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	PA-234M	T-RAD	713R6	600	1300.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	RA-226	T-RAD	783R3	0.59	0.25	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	RA-228	T-RAD	724R6	1.19	0.48	PCI/L		J		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	TH-228	T-RAD	714R5	-0.01	0.15	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	TH-229	T-RAD	714R5	9.4	2.00	PCI/L				TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	TH-230	T-RAD	714R5	0.34	0.13	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	TH-232	T-RAD	714R5	0.048	0.04	PCI/L	LT			TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	TH-234	T-RAD	713R6	-14	78.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	U-232	T-RAD	714R5	47.1	10.00	PCI/L				TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	U-234	T-RAD	714R5	0.89	0.56	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	U-235	T-RAD	714R5	0.31	0.33	PCI/L				TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	U-235	T-RAD	713R6	14	33.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108183	U-238	T-RAD	714R5	0.57	0.44	PCI/L	LT			TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108179	AC-227	RAD	714R5	0.46	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	AC-228	RAD	713R6	1.02	0.24	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	AM-241	RAD	713R6	-0.06	0.18	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	BI-212	RAD	713R6	1.22	0.66	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	BI-214	RAD	713R6	0.62	0.19	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	CO-60	RAD	713R6	0.017	0.06	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	CS-137	RAD	713R6	0.048	0.05	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	K-40	RAD	713R6	18.5	3.50	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	PA-231	RAD	713R6	-0.6	1.50	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	PA-234M	RAD	713R6	-1.1	8.40	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	PB-212	RAD	713R6	1.17	0.24	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	PB-214	RAD	713R6	0.88	0.20	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	RA-226	RAD	783R3	1.16	0.25	PCI/G		J		TRUE	TRUE	SOIL

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ARA1001SS061140	17-Aug-01	108179	TH-228	RAD	714R5	1.15	0.19	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	TH-229	RAD	714R5	2.17	0.62	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	TH-230	RAD	714R5	1.95	0.29	PCI/G		J		TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	TH-232	RAD	714R5	0.97	0.16	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	TH-234	RAD	713R6	1.22	0.89	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	TL-208	RAD	713R6	0.273	0.08	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	TOTACTIV	RAD	704R5	13.9	4.40	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	U-232	RAD	714R5	2.94	0.68	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	U-234	RAD	714R5	0.91	0.19	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	U-235	RAD	713R6	-0.26	0.31	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	U-235	RAD	714R5	0.066	0.04	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108179	U-238	RAD	714R5	1.03	0.21	PCI/G				TRUE	TRUE	SOIL
ARA1001SS061140	17-Aug-01	108171	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.168	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	ACID	T-HER	SW8151	0.018	0.00	MG/L				TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	2-FLUOROBIPHENYL	T-OS	SW8270	0.127	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	2-FLUOROPHENOL	T-OS	SW8270	0.168	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0502	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	ARSENIC	T-M	SW6010	0.015	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	BARIUM	T-M	SW6010	0.79	0.00	MG/L		U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	CADMIUM	T-M	SW6010	0.042	0.00	MG/L				TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	DECACHLOROBIPHENYL	T-PES	SW8081	0.00483	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0461	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1001SS061140	17-Aug-01	108171	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	LEAD	T-M	SW6010	0.051	0.00	MG/L				TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	NITROBENZENE-D5	T-OS	SW8270	0.126	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	PHENOL-D5	T-OS	SW8270	0.169	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	SELENIUM	T-M	SW6010	0.011	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	TERPHENYL-D14	T-OS	SW8270	0.115	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.00491	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	TOLUENE-D8	T-OV	SW8260	0.0568	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS061140	17-Aug-01	108171	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS061140	17-Aug-01	108171	ZINC	T-M	SW6010	2.8	0.00	MG/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	AC-227	T-RAD	714R5	-0.07	0.23	PCI/L	U	UJ		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	AC-228	T-RAD	713R6	-13	33.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	AM-241	T-RAD	713R6	2	9.30	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	CO-60	T-RAD	713R6	-3	11.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	CS-137	T-RAD	713R6	2.6	8.80	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	K-40	T-RAD	713R6	-60	150.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	PA-231	T-RAD	713R6	-30	230.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	PA-234M	T-RAD	713R6	-400	1700.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	RA-226	T-RAD	783R3	1.48	0.26	PCI/L	Y1			TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	RA-228	T-RAD	724R6	1.7	0.59	PCI/L		J		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	TH-228	T-RAD	714R5	-0.01	0.14	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	TH-229	T-RAD	714R5	11.2	2.00	PCI/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	TH-230	T-RAD	714R5	0.23	0.10	PCI/L	LT	J		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	TH-232	T-RAD	714R5	0.017	0.03	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	TH-234	T-RAD	713R6	-60	84.00	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	U-232	T-RAD	714R5	50.4	10.00	PCI/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	U-234	T-RAD	714R5	3.6	1.20	PCI/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	U-235	T-RAD	714R5	0.16	0.23	PCI/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	U-235	T-RAD	713R6	36	40.00	PCI/L	TI			TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108183	U-238	T-RAD	714R5	2.9	1.00	PCI/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108179	AC-227	RAD	714R5	0.39	0.15	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	AC-228	RAD	713R6	0.74	0.50	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	AM-241	RAD	713R6	0.05	0.11	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	BI-214	RAD	713R6	0.67	0.36	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	CO-60	RAD	713R6	-0.09	0.14	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	CS-137	RAD	713R6	0.03	0.13	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	K-40	RAD	713R6	13.5	4.50	PCI/G				TRUE	TRUE	SOIL

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ARA1001SS060180	17-Aug-01	108179	PA-231	RAD	713R6	-1.2	2.80	PCI/G	U	UJ		TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	PA-234M	RAD	713R6	3	21.00	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	PB-212	RAD	713R6	0.92	0.29	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	PB-214	RAD	713R6	0.58	0.29	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	RA-226	RAD	783R3	0.98	0.33	PCI/G	LT	J		TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	TH-228	RAD	714R5	0.91	0.17	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	TH-229	RAD	714R5	2	0.62	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	TH-230	RAD	714R5	1.08	0.18	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	TH-232	RAD	714R5	0.77	0.14	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	TH-234	RAD	713R6	0.66	0.75	PCI/G	TI			TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	TL-208	RAD	713R6	0.26	0.18	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	TOTACTIV	RAD	704R5	10.9	4.30	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	U-232	RAD	714R5	2.75	0.69	PCI/G				TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	U-234	RAD	714R5	0.89	0.19	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	U-235	RAD	713R6	-0.05	0.43	PCI/G	U	U		TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	U-235	RAD	714R5	0.04	0.03	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108179	U-238	RAD	714R5	0.96	0.20	PCI/G	LT			TRUE	TRUE	SOIL
ARA1001SS060180	17-Aug-01	108171	1,1-DICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	1,2-DICHLOROETHANE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	1,4-DICHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	2,4,5-TRICHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	2,4,6-TRIBROMOPHENOL	T-OS	SW8270	0.291	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	2,4,6-TRICHLOROPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	2,4-D	T-HER	SW8151	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	ACID	T-HER	SW8151	0.0187	0.00	MG/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	2,4-DINITROTOLUENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	2-BUTANONE	T-OV	SW8260	0.1	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	2-FLUOROBIPHENYL	T-OS	SW8270	0.202	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	2-FLUOROPHENOL	T-OS	SW8270	0.252	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	2-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	3+4-METHYLPHENOL	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	4-BROMOFLUOROBENZENE	T-OV	SW8260	0.0445	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	ALPHA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	ARSENIC	T-M	SW6010	0.023	0.00	MG/L	B	B		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	BARIUM	T-M	SW6010	1.6	0.00	MG/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	BENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	CADMIUM	T-M	SW6010	0.00072	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	CARBON TETRACHLORIDE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	CHLORDANE	T-PES	SW8081	0.01	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	CHLOROBENZENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	CHLOROFORM	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	CHROMIUM	T-M	SW6010	0.0018	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	COPPER	T-M	SW6010	0.0017	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	DECACHLOROBIPHENYL	T-PES	SW8081	0.00392	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	DIBROMOFLUOROMETHANE	T-OV	SW8260	0.0458	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	ENDRIN	T-PES	SW8081	0.001	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	GAMMA-BHC (LINDANE)	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E

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ARA1001SS060180	17-Aug-01	108171	GAMMA-CHLORDANE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	HEPTACHLOR	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	HEPTACHLOR EPOXIDE	T-PES	SW8081	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	HEXACHLOROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	HEXACHLOROBUTADIENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	HEXACHLOROETHANE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	LEAD	T-M	SW6010	0.017	0.00	MG/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	MERCURY	T-M	SW7470	0.00012	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	METHOXYCHLOR	T-PES	SW8081	0.005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	NITROBENZENE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	NITROBENZENE-D5	T-OS	SW8270	0.191	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	PENTACHLOROPHENOL	T-OS	SW8270	0.25	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	PHENOL-D5	T-OS	SW8270	0.26	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	PYRIDINE	T-OS	SW8270	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	SELENIUM	T-M	SW6010	0.028	0.00	MG/L				TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	SILVER	T-M	SW6010	0.0021	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	SILVEX	T-HER	SW8151	0.0005	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	TERPHENYL-D14	T-OS	SW8270	0.185	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	TETRACHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	TETRACHLORO-M-XYLENE	T-PES	SW8081	0.005	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	TOLUENE-D8	T-OV	SW8260	0.048	0.00	MG/L			SURROGATE RECOVERY	FALSE	FALSE	E
ARA1001SS060180	17-Aug-01	108171	TOXAPHENE	T-PES	SW8081	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	TRICHLOROETHENE	T-OV	SW8260	0.025	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	VINYL CHLORIDE	T-OV	SW8260	0.05	0.00	MG/L	U	U		TRUE	TRUE	E
ARA1001SS060180	17-Aug-01	108171	ZINC	T-M	SW6010	1.2	0.00	MG/L				TRUE	TRUE	E

EXHIBIT F-1

RESRAD OUTPUT USING OFF-SITE ANALYTICAL RESULTS

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Dose Conversion Factor (and Related) Parameter Summary
File: FGR 13 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Pb-210+D	2.320E-02	2.320E-02	DCF2(1)
B-1	Ra-226+D	8.600E-03	8.600E-03	DCF2(2)
B-1	Th-230	3.260E-01	3.260E-01	DCF2(3)
B-1	U-234	1.320E-01	1.320E-01	DCF2(4)
B-1	U-238+D	1.180E-01	1.180E-01	DCF2(5)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Pb-210+D	7.270E-03	7.270E-03	DCF3(1)
D-1	Ra-226+D	1.330E-03	1.330E-03	DCF3(2)
D-1	Th-230	5.480E-04	5.480E-04	DCF3(3)
D-1	U-234	2.830E-04	2.830E-04	DCF3(4)
D-1	U-238+D	2.690E-04	2.690E-04	DCF3(5)
D-34	Food transfer factors:			
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(1,1)
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF(1,2)
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(1,3)
D-34				
D-34	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(2,1)
D-34	Ra-226+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(2,2)
D-34	Ra-226+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(2,3)
D-34				
D-34	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(3,1)
D-34	Th-230 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(3,2)
D-34	Th-230 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(3,3)
D-34				
D-34	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(4,1)
D-34	U-234 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(4,2)
D-34	U-234 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(4,3)
D-34				
D-34	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(5,1)
D-34	U-238+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(5,2)
D-34	U-238+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(5,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Pb-210+D , fish	3.000E+02	3.000E+02	BIOFAC(1,1)
D-5	Pb-210+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(1,2)
D-5				
D-5	Ra-226+D , fish	5.000E+01	5.000E+01	BIOFAC(2,1)
D-5	Ra-226+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(2,2)
D-5				
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC(3,1)
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(3,2)
D-5				
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC(4,1)
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(4,2)
D-5				

Dose Conversion Factor (and Related) Parameter Summary (continued)
File: FGR 13 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-5	U-238+D , fish	1.000E+01	1.000E+01	BIOFAC(5,1)
D-5	U-238+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(5,2)

Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R011	Area of contaminated zone (m**2)	1.000E+04	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	6.000E-01	2.000E+00	---	THICK0
R011	Length parallel to aquifer flow (m)	1.000E+02	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+01	---	BRDL
R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---	TI
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---	T(2)
R011	Times for calculations (yr)	1.000E+01	3.000E+00	---	T(3)
R011	Times for calculations (yr)	1.000E+02	1.000E+01	---	T(4)
R011	Times for calculations (yr)	3.000E+02	3.000E+01	---	T(5)
R011	Times for calculations (yr)	6.000E+02	1.000E+02	---	T(6)
R011	Times for calculations (yr)	8.000E+02	3.000E+02	---	T(7)
R011	Times for calculations (yr)	9.000E+02	1.000E+03	---	T(8)
R011	Times for calculations (yr)	1.000E+03	0.000E+00	---	T(9)
R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
R012	Initial principal radionuclide (pCi/g): Ra-226	1.000E+00	0.000E+00	---	S1(2)
R012	Initial principal radionuclide (pCi/g): Th-230	1.000E+00	0.000E+00	---	S1(3)
R012	Initial principal radionuclide (pCi/g): U-238	1.000E+00	0.000E+00	---	S1(5)
R012	Concentration in groundwater (pCi/L): Ra-226	not used	0.000E+00	---	W1(2)
R012	Concentration in groundwater (pCi/L): Th-230	not used	0.000E+00	---	W1(3)
R012	Concentration in groundwater (pCi/L): U-238	not used	0.000E+00	---	W1(5)
R013	Cover depth (m)	0.000E+00	0.000E+00	---	COVER0
R013	Density of cover material (g/cm**3)	not used	1.500E+00	---	DENSCV
R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---	VCV
R013	Density of contaminated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	0.000E+00	1.000E-03	---	VCZ
R013	Contaminated zone total porosity	4.920E-01	4.000E-01	---	TPCZ
R013	Contaminated zone field capacity	2.000E-01	2.000E-01	---	FCCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	3.260E+01	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	1.040E+01	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	2.000E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	not used	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	5.000E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	1.230E+00	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	0.000E+00	2.000E-01	---	RI
R013	Irrigation mode	overhead	overhead	---	IDITCH
R013	Runoff coefficient	6.000E-01	2.000E-01	---	RUNOFF
R013	Watershed area for nearby stream or pond (m**2)	1.000E+06	1.000E+06	---	WAREA
R013	Accuracy for water/soil computations	1.000E-03	1.000E-03	---	EPS
R014	Density of saturated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	4.000E-01	4.000E-01	---	TPSZ
R014	Saturated zone effective porosity	2.000E-01	2.000E-01	---	EPSZ
R014	Saturated zone field capacity	2.000E-01	2.000E-01	---	FCSZ
R014	Saturated zone hydraulic conductivity (m/yr)	1.000E+02	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	2.000E-02	2.000E-02	---	HGWT
R014	Saturated zone b parameter	5.300E+00	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	1.000E-03	1.000E-03	---	VWT
R014	Well pump intake depth (m below water table)	1.000E+01	1.000E+01	---	DWIBWT

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	not used	2.500E+02	---	UW
R015	Number of unsaturated zone strata	1	1	---	NS
R015	Unsat. zone 1, thickness (m)	8.540E+00	4.000E+00	---	H(1)
R015	Unsat. zone 1, soil density (g/cm**3)	1.500E+00	1.500E+00	---	DENSUZ(1)
R015	Unsat. zone 1, total porosity	4.000E-01	4.000E-01	---	TPUZ(1)
R015	Unsat. zone 1, effective porosity	2.000E-01	2.000E-01	---	EPUZ(1)
R015	Unsat. zone 1, field capacity	2.000E-01	2.000E-01	---	FCUZ(1)
R015	Unsat. zone 1, soil-specific b parameter	5.300E+00	5.300E+00	---	BUZ(1)
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	1.000E+01	1.000E+01	---	HCUZ(1)
R016	Distribution coefficients for Ra-226				
R016	Contaminated zone (cm**3/g)	1.100E+02	7.000E+01	---	DCNUCC(2)
R016	Unsaturated zone 1 (cm**3/g)	1.600E+02	7.000E+01	---	DCNUCU(2,1)
R016	Saturated zone (cm**3/g)	1.600E+02	7.000E+01	---	DCNUCS(2)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.479E-03	ALEACH(2)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(2)
R016	Distribution coefficients for Th-230				
R016	Contaminated zone (cm**3/g)	1.500E+04	6.000E+04	---	DCNUCC(3)
R016	Unsaturated zone 1 (cm**3/g)	7.600E+02	6.000E+04	---	DCNUCU(3,1)
R016	Saturated zone (cm**3/g)	7.600E+02	6.000E+04	---	DCNUCS(3)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.822E-05	ALEACH(3)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(3)
R016	Distribution coefficients for U-238				
R016	Contaminated zone (cm**3/g)	3.200E+01	5.000E+01	---	DCNUCC(5)
R016	Unsaturated zone 1 (cm**3/g)	6.100E+01	5.000E+01	---	DCNUCU(5,1)
R016	Saturated zone (cm**3/g)	6.100E+01	5.000E+01	---	DCNUCS(5)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.471E-03	ALEACH(5)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(5)
R016	Distribution coefficients for daughter Pb-210				
R016	Contaminated zone (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCC(1)
R016	Unsaturated zone 1 (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCU(1,1)
R016	Saturated zone (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCS(1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.726E-03	ALEACH(1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(1)
R016	Distribution coefficients for daughter U-234				
R016	Contaminated zone (cm**3/g)	3.200E+01	5.000E+01	---	DCNUCC(4)
R016	Unsaturated zone 1 (cm**3/g)	6.100E+01	5.000E+01	---	DCNUCU(4,1)
R016	Saturated zone (cm**3/g)	6.100E+01	5.000E+01	---	DCNUCS(4)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	8.471E-03	ALEACH(4)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(4)
R017	Inhalation rate (m**3/yr)	not used	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	not used	1.000E-04	---	MLINH
R017	Exposure duration	3.000E+01	3.000E+01	---	ED

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R017	Shielding factor, inhalation	not used	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	not used	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	not used	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	not used	2.500E-01	---	FOTD
R017	Shape factor flag, external gamma	not used	1.000E+00	>0 shows circular AREA.	FS
R017	Radii of shape factor array (used if FS = -1):				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	RAD_SHAPE(1)
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	RAD_SHAPE(2)
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	RAD_SHAPE(3)
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	RAD_SHAPE(4)
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	RAD_SHAPE(5)
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	RAD_SHAPE(6)
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	RAD_SHAPE(7)
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	RAD_SHAPE(8)
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	RAD_SHAPE(9)
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	RAD_SHAPE(10)
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	RAD_SHAPE(11)
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	RAD_SHAPE(12)
R017	Fractions of annular areas within AREA:				
R017	Ring 1	not used	1.000E+00	---	FRACA(1)
R017	Ring 2	not used	2.732E-01	---	FRACA(2)
R017	Ring 3	not used	0.000E+00	---	FRACA(3)
R017	Ring 4	not used	0.000E+00	---	FRACA(4)
R017	Ring 5	not used	0.000E+00	---	FRACA(5)
R017	Ring 6	not used	0.000E+00	---	FRACA(6)
R017	Ring 7	not used	0.000E+00	---	FRACA(7)
R017	Ring 8	not used	0.000E+00	---	FRACA(8)
R017	Ring 9	not used	0.000E+00	---	FRACA(9)
R017	Ring 10	not used	0.000E+00	---	FRACA(10)
R017	Ring 11	not used	0.000E+00	---	FRACA(11)
R017	Ring 12	not used	0.000E+00	---	FRACA(12)
R018	Fruits, vegetables and grain consumption (kg/yr)	not used	1.600E+02	---	DIET(1)
R018	Leafy vegetable consumption (kg/yr)	not used	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	not used	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	not used	6.300E+01	---	DIET(4)
R018	Fish consumption (kg/yr)	not used	5.400E+00	---	DIET(5)
R018	Other seafood consumption (kg/yr)	not used	9.000E-01	---	DIET(6)
R018	Soil ingestion rate (g/yr)	not used	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	5.100E+02	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	1.000E+00	1.000E+00	---	FDW
R018	Contamination fraction of household water	not used	1.000E+00	---	FHHW
R018	Contamination fraction of livestock water	not used	1.000E+00	---	FLW
R018	Contamination fraction of irrigation water	not used	1.000E+00	---	FIRW
R018	Contamination fraction of aquatic food	not used	5.000E-01	---	FR9
R018	Contamination fraction of plant food	not used	-1	---	FPLANT
R018	Contamination fraction of meat	not used	-1	---	FMEAT
R018	Contamination fraction of milk	not used	-1	---	FMILK

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R019	Livestock fodder intake for meat (kg/day)	not used	6.800E+01	---	LFI5
R019	Livestock fodder intake for milk (kg/day)	not used	5.500E+01	---	LFI6
R019	Livestock water intake for meat (L/day)	not used	5.000E+01	---	LWI5
R019	Livestock water intake for milk (L/day)	not used	1.600E+02	---	LWI6
R019	Livestock soil intake (kg/day)	not used	5.000E-01	---	LSI
R019	Mass loading for foliar deposition (g/m**3)	not used	1.000E-04	---	MLFD
R019	Depth of soil mixing layer (m)	not used	1.500E-01	---	DM
R019	Depth of roots (m)	not used	9.000E-01	---	DROOT
R019	Drinking water fraction from ground water	1.000E+00	1.000E+00	---	FGWDW
R019	Household water fraction from ground water	not used	1.000E+00	---	FGWHH
R019	Livestock water fraction from ground water	not used	1.000E+00	---	FGWLW
R019	Irrigation fraction from ground water	not used	1.000E+00	---	FGWIR
R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	not used	7.000E-01	---	YV(1)
R19B	Wet weight crop yield for Leafy (kg/m**2)	not used	1.500E+00	---	YV(2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	not used	1.100E+00	---	YV(3)
R19B	Growing Season for Non-Leafy (years)	not used	1.700E-01	---	TE(1)
R19B	Growing Season for Leafy (years)	not used	2.500E-01	---	TE(2)
R19B	Growing Season for Fodder (years)	not used	8.000E-02	---	TE(3)
R19B	Translocation Factor for Non-Leafy	not used	1.000E-01	---	TIV(1)
R19B	Translocation Factor for Leafy	not used	1.000E+00	---	TIV(2)
R19B	Translocation Factor for Fodder	not used	1.000E+00	---	TIV(3)
R19B	Dry Foliar Interception Fraction for Non-Leafy	not used	2.500E-01	---	RDRY(1)
R19B	Dry Foliar Interception Fraction for Leafy	not used	2.500E-01	---	RDRY(2)
R19B	Dry Foliar Interception Fraction for Fodder	not used	2.500E-01	---	RDRY(3)
R19B	Wet Foliar Interception Fraction for Non-Leafy	not used	2.500E-01	---	RWET(1)
R19B	Wet Foliar Interception Fraction for Leafy	not used	2.500E-01	---	RWET(2)
R19B	Wet Foliar Interception Fraction for Fodder	not used	2.500E-01	---	RWET(3)
R19B	Weathering Removal Constant for Vegetation	not used	2.000E+01	---	WLAM
C14	C-12 concentration in water (g/cm**3)	not used	2.000E-05	---	C12WTR
C14	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02	---	C12CZ
C14	Fraction of vegetation carbon from soil	not used	2.000E-02	---	CSOIL
C14	Fraction of vegetation carbon from air	not used	9.800E-01	---	CAIR
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01	---	DMC
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07	---	EVSN
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10	---	REVSN
C14	Fraction of grain in beef cattle feed	not used	8.000E-01	---	AVFG4
C14	Fraction of grain in milk cow feed	not used	2.000E-01	---	AVFG5
C14	DCF correction factor for gaseous forms of C14	not used	8.894E+01	---	CO2F
STOR	Storage times of contaminated foodstuffs (days):				
STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01	---	STOR_T(1)
STOR	Leafy vegetables	1.000E+00	1.000E+00	---	STOR_T(2)
STOR	Milk	1.000E+00	1.000E+00	---	STOR_T(3)
STOR	Meat and poultry	2.000E+01	2.000E+01	---	STOR_T(4)
STOR	Fish	7.000E+00	7.000E+00	---	STOR_T(5)
STOR	Crustacea and mollusks	7.000E+00	7.000E+00	---	STOR_T(6)
STOR	Well water	1.000E+00	1.000E+00	---	STOR_T(7)
STOR	Surface water	1.000E+00	1.000E+00	---	STOR_T(8)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
STOR	Livestock fodder	4.500E+01	4.500E+01	---	STOR_T(9)
R021	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR1
R021	Bulk density of building foundation (g/cm**3)	not used	2.400E+00	---	DENSFL
R021	Total porosity of the cover material	not used	4.000E-01	---	TPCV
R021	Total porosity of the building foundation	not used	1.000E-01	---	TPFL
R021	Volumetric water content of the cover material	not used	5.000E-02	---	PH2OCV
R021	Volumetric water content of the foundation	not used	3.000E-02	---	PH2OFL
R021	Diffusion coefficient for radon gas (m/sec):				
R021	in cover material	not used	2.000E-06	---	DIFCV
R021	in foundation material	not used	3.000E-07	---	DIFFL
R021	in contaminated zone soil	not used	2.000E-06	---	DIFCZ
R021	Radon vertical dimension of mixing (m)	not used	2.000E+00	---	HMIX
R021	Average building air exchange rate (1/hr)	not used	5.000E-01	---	REXG
R021	Height of the building (room) (m)	not used	2.500E+00	---	HRM
R021	Building interior area factor	not used	0.000E+00	---	FAI
R021	Building depth below ground surface (m)	not used	-1.000E+00	---	DMFL
R021	Emanating power of Rn-222 gas	not used	2.500E-01	---	EMANA(1)
R021	Emanating power of Rn-220 gas	not used	1.500E-01	---	EMANA(2)
TITL	Number of graphical time points	32	---	---	NPTS
TITL	Maximum number of integration points for dose	17	---	---	LYMAX
TITL	Maximum number of integration points for risk	257	---	---	KYMAX

Summary of Pathway Selections

Pathway	User Selection
1 -- external gamma	suppressed
2 -- inhalation (w/o radon)	suppressed
3 -- plant ingestion	suppressed
4 -- meat ingestion	suppressed
5 -- milk ingestion	suppressed
6 -- aquatic foods	suppressed
7 -- drinking water	active
8 -- soil ingestion	suppressed
9 -- radon	suppressed
Find peak pathway doses	active

Contaminated Zone Dimensions		Initial Soil Concentrations, pCi/g	
Area:	10000.00 square meters	Ra-226	1.000E+00
Thickness:	0.60 meters	Th-230	1.000E+00
Cover Depth:	0.00 meters	U-238	1.000E+00

Total Dose TDOSE(t), mrem/yr
Basic Radiation Dose Limit = 2.500E+01 mrem/yr
Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years):	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
TDOSE(t):	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
M(t):	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Maximum TDOSE(t): 0.000E+00 mrem/yr at t = 0.000E+00 years

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 6.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 6.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 8.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 8.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 9.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 9.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	DSR(j,t) (mrem/yr)/(pCi/g) 1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Single Radionuclide Soil Guidelines G(i,t) in pCi/g
Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11
Th-230	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10
U-238	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05

*At specific activity limit

Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)
and Single Radionuclide Soil Guidelines G(i,t) in pCi/g
at tmin = time of minimum single radionuclide soil guideline
and at tmax = time of maximum total dose = 0.000E+00 years

Nuclide (i)	Initial (pCi/g)	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
Ra-226	1.000E+00	0.000E+00	0.000E+00	*9.882E+11	0.000E+00	*9.882E+11
Th-230	1.000E+00	0.000E+00	0.000E+00	*2.018E+10	0.000E+00	*2.018E+10
U-238	1.000E+00	0.000E+00	0.000E+00	*3.360E+05	0.000E+00	*3.360E+05

*At specific activity limit

Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	DOSE(j,t), mrem/yr t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DOSE(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	∑DOSE(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DOSE(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BRF(i) is the branch fraction of the parent nuclide.

Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	9.971E-01	9.713E-01	7.474E-01	4.174E-01	1.743E-01	9.733E-02	7.274E-02	5.436E-02
Ra-226	Th-230	1.000E+00	0.000E+00	4.326E-04	4.269E-03	3.753E-02	8.626E-02	1.216E-01	1.323E-01	1.356E-01	1.380E-01
Ra-226	U-238	1.000E+00	0.000E+00	1.833E-15	1.753E-12	1.136E-09	1.264E-08	3.257E-08	4.081E-08	4.355E-08	4.562E-08
Ra-226	∑S(j):		1.000E+00	9.975E-01	9.756E-01	7.849E-01	5.037E-01	2.958E-01	2.297E-01	2.084E-01	1.923E-01
Pb-210	Ra-226	1.000E+00	0.000E+00	3.052E-02	2.597E-01	7.176E-01	4.199E-01	1.753E-01	9.792E-02	7.318E-02	5.469E-02
Pb-210	Th-230	1.000E+00	0.000E+00	6.651E-06	5.974E-04	2.533E-02	7.399E-02	1.096E-01	1.205E-01	1.238E-01	1.262E-01
Pb-210	U-238	1.000E+00	0.000E+00	1.417E-17	1.288E-13	5.431E-10	9.691E-09	2.845E-08	3.659E-08	3.934E-08	4.141E-08
Pb-210	∑S(j):		0.000E+00	3.053E-02	2.603E-01	7.430E-01	4.939E-01	2.849E-01	2.184E-01	1.970E-01	1.809E-01
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	9.997E-01	9.973E-01	9.919E-01	9.838E-01	9.785E-01	9.758E-01	9.731E-01
Th-230	U-238	1.000E+00	0.000E+00	1.269E-11	1.206E-09	7.397E-08	2.554E-07	3.386E-07	3.470E-07	3.477E-07	3.475E-07
Th-230	∑S(j):		1.000E+00	1.000E+00	9.997E-01	9.973E-01	9.919E-01	9.838E-01	9.785E-01	9.758E-01	9.731E-01
U-238	U-238	1.000E+00	1.000E+00	9.916E-01	9.188E-01	4.287E-01	7.876E-02	6.204E-03	1.140E-03	4.887E-04	2.095E-04
U-234	U-238	1.000E+00	0.000E+00	2.811E-06	2.605E-05	1.215E-04	6.696E-05	1.054E-05	2.582E-06	1.245E-06	5.930E-07

BRF(i) is the branch fraction of the parent nuclide.

RESCALC.EXE execution time = 1.52 seconds

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Source Factors for Ingrowth and Decay
Radioactivity Factors Only
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	ID(j,t) = CUMBRF(j)*S1(j,t)/S1(i,0) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	9.996E-01	9.957E-01	9.576E-01	8.781E-01	7.711E-01	7.071E-01	6.771E-01	6.484E-01
Ra-226	Pb-210	1.000E+00	0.000E+00	3.060E-02	2.666E-01	9.258E-01	8.904E-01	7.820E-01	7.171E-01	6.867E-01	6.576E-01
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	9.999E-01	9.991E-01	9.973E-01	9.946E-01	9.928E-01	9.919E-01	9.910E-01
Th-230	Ra-226	1.000E+00	0.000E+00	4.331E-04	4.323E-03	4.238E-02	1.217E-01	2.283E-01	2.918E-01	3.215E-01	3.499E-01
Th-230	Pb-210	1.000E+00	0.000E+00	6.663E-06	6.077E-04	2.948E-02	1.093E-01	2.174E-01	2.819E-01	3.120E-01	3.408E-01
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	0.000E+00	2.835E-06	2.835E-05	2.835E-04	8.501E-04	1.700E-03	2.265E-03	2.548E-03	2.831E-03
U-238	Th-230	1.000E+00	0.000E+00	1.276E-11	1.276E-09	1.275E-07	1.147E-06	4.583E-06	8.141E-06	1.030E-05	1.271E-05
U-238	Ra-226	1.000E+00	0.000E+00	1.842E-15	1.841E-12	1.822E-09	4.813E-08	3.728E-07	8.649E-07	1.219E-06	1.654E-06
U-238	Pb-210	1.000E+00	0.000E+00	1.423E-17	1.346E-13	8.486E-10	3.570E-08	3.198E-07	7.710E-07	1.100E-06	1.509E-06

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).

Source Factors for Ingrowth and Decay
Combined Radioactivity and Leaching Factors
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	SF(j,t) = CUMBRF(j)*S1(j,t)/S1(i,0) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	9.971E-01	9.713E-01	7.474E-01	4.174E-01	1.743E-01	9.733E-02	7.274E-02	5.436E-02
Ra-226	Pb-210	1.000E+00	0.000E+00	3.052E-02	2.597E-01	7.176E-01	4.199E-01	1.753E-01	9.792E-02	7.318E-02	5.469E-02
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	9.997E-01	9.973E-01	9.919E-01	9.838E-01	9.785E-01	9.758E-01	9.731E-01
Th-230	Ra-226	1.000E+00	0.000E+00	4.326E-04	4.269E-03	3.753E-02	8.626E-02	1.216E-01	1.323E-01	1.356E-01	1.380E-01
Th-230	Pb-210	1.000E+00	0.000E+00	6.651E-06	5.974E-04	2.533E-02	7.399E-02	1.096E-01	1.205E-01	1.238E-01	1.262E-01
U-238	U-238	1.000E+00	1.000E+00	9.916E-01	9.188E-01	4.287E-01	7.876E-02	6.204E-03	1.140E-03	4.887E-04	2.095E-04
U-238	U-234	1.000E+00	0.000E+00	2.811E-06	2.605E-05	1.215E-04	6.696E-05	1.054E-05	2.582E-06	1.245E-06	5.930E-07
U-238	Th-230	1.000E+00	0.000E+00	1.269E-11	1.206E-09	7.397E-08	2.554E-07	3.386E-07	3.470E-07	3.477E-07	3.475E-07
U-238	Ra-226	1.000E+00	0.000E+00	1.833E-15	1.753E-12	1.136E-09	1.264E-08	3.257E-08	4.081E-08	4.355E-08	4.562E-08
U-238	Pb-210	1.000E+00	0.000E+00	1.417E-17	1.288E-13	5.431E-10	9.691E-09	2.845E-08	3.659E-08	3.934E-08	4.141E-08

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The effect of volatilization was also considered when computing the source factors for H-3 and C-14.

Parameters Used for Calculating Cover Depth and Contaminated Zone Thicknesses

Cover Erosion rate (vcv): 0.001000 m/yr
Contaminated Zone Erosion rate (vcz): 0.000000 m/yr
Water Table Drop rate (vwt): 0.001000 m/yr
Precipitation rate (Pr): 1.230000 m/yr
Cover Removal Time (Tc): 0.000E+00 yr
Overhead irrigation rate (Irr): 0.000 m/yr
Runoff coefficient (Cr): 0.600
Evapotranspiration coeff. (Ce): 0.500
Infiltration rate (In): 0.246 m/yr
Bulk soil density (rhob): 1.500 g/cm**3
Effective porosity (pe): 0.000

Radio-nuclide (i)	Distribution Coefficient Kd(i),cm**3/g	Leaching Ratio q(i)
Pb-210	1.000000E+02	2.664E-03
Ra-226	1.100000E+02	2.422E-03
Th-230	1.500000E+04	1.781E-05
U-234	3.200000E+01	8.278E-03
U-238	3.200000E+01	8.278E-03

Time Dependence of Source Geometry

Time Dependence of Cover Depth [Cd(i,t)]

Nuclide (i)	Cd(i,t) (meters) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-234	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Time Dependence of Contaminated Zone Thicknesses [T(i,t)]

Nuclide (i)	T(i,t) (meters) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
Ra-226	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
Th-230	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
U-234	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
U-238	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01

Occupancy, Cover/Depth, and Area Factors for Ground Pathway

Occupancy Factor (FO1): 0.000
Area (A): 10000. sq. meters
Initial cover depth (Cd): 0.000 meters
Initial contaminated zone thickness (T): 0.600 meters

Time Dependence of Cover/Depth Factor [FCTR_COV_DEPTH(i,t)]

Nuclide (i)	FCTR_COV_DEPTH(i,t) (dimensionless) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Time Dependence of Area Factor [FCTR_AREA(i,t)]

Nuclide (i)	FCTR_AREA(i,t) (dimensionless) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Dose Conversion and Environmental Transport Factors for the Ground Pathway (p=1)

Parent (i)	Product (j)	DCF(j,1)*	ETF(j,1,t) (dimensionless) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.120E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	6.120E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.210E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.120E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	6.120E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.520E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	4.020E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.210E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.120E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	6.120E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are (mrem/yr)/(pCi/g) at infinite depth and area.

Dose/Source Ratios for External Radiation from the Ground (p=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	DSR(j,1,t) (mrem/yr)/(pCi/g) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Inhalation Pathway, Excluding Radon (p=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Pathway Factors for the Inhalation Pathway (radon excluded)

Area (A):	1.0000E+04 m**2	Occupancy Factor (FO2):	4.5000E-01
Area Factor (FA2):	1.6930E-01	Annual Air Intake (F12):	8.4000E+03 m**3/yr
Cover Depth [Cd(0)]:	0.0000E+00 m	Mass Loading (ASR2):	1.0000E-04 g/m**3
Contaminated Zone Thickness [T(0)]:	6.0000E-01 m	FA2 * FO2 * F12 * ASR2:	6.3995E-02 g/yr

Nuclide (i)	Depth Factor [FD(i,2,t)] (dimensionless) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226+D	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Th-230	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-238 +D	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00

Dose Conversion and Environmental Transport Factors for the Inhalation Pathway, Excluding Radon (p=2)

Parent (i)	Product (j)	DCF(j,2)*	ETF(j,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	8.600E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	2.320E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	3.260E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	8.600E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	2.320E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.180E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.320E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	3.260E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	8.600E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	2.320E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Parameters Used for Calculating Indoor and Outdoor Radon Flux

	*Floor Material	Cover Material	Contaminated Zone
Radon Diffusion Coefficient (m**2/s)	3.000E-07	2.000E-06	2.000E-06
Total Porosity	1.000E-01	4.000E-01	4.920E-01
Volumetric Water Content	3.000E-02	5.000E-02	4.007E-01
Bulk Density (g/cm**3)	2.400E+00	1.500E+00	1.500E+00
Rn-222 Emanation Coefficient	2.500E-01	2.500E-01	2.500E-01
Initial Thickness (m)	1.500E-01	0.000E+00	6.000E-01

Building Depth Below Ground Surface *(DMFL): -1.000E+00 (m)
Negative DMFL shows building depth adjusted (if necessary) for no penetration
of contaminated zone. Actual values used *(DMFLACT), m:

t=	0.0000E+00	1.0000E+00	1.0000E+01	1.0000E+02	3.0000E+02	6.0000E+02	8.0000E+02	9.0000E+02	1.0000E+03
DMFLACT=	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Building indoor area factor *(FAI): 0.000E+00
FAI <= 0.0 shows calculated time-dependent value based on amount of wall area
extending into the contaminated zone. Actual values used *(FAIACT):

t=	0.0000E+00	1.0000E+00	1.0000E+01	1.0000E+02	3.0000E+02	6.0000E+02	8.0000E+02	9.0000E+02	1.0000E+03
FAIACT =	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

* - Parameters are used only for indoor radon flux

Time Dependence of Outdoor Radon Flux [FLUXO(i,t)]

Nuclide (i)	FLUXO(i,t) (pCi/m**2/s) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Time Dependence of Indoor Radon Flux [FLUXI(i,t)]

Nuclide (i)	FLUXI(i,t) (pCi/m**2/s) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Parameters Used for Calculating Indoor and Outdoor Radon Concentration

Radon Vertical Dimension of Mixing (HMIX):	2.000E+00	(m)
Average Annual Wind Speed (WIND):	2.000E+00	(m/sec)
Building Room Height (HRM):	2.500E+00	(m)
Building Air Exchange Rate (REXG):	5.000E-01	(1/hr)

Time Dependence of Outdoor Radon Concentration [CRNO(i,t)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	CRNO(i,t) (pCi/m**3)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Time Dependence of Indoor Radon Concentration [HCONC(i,r)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	HCONC(i,t) (pCi/m**3)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Outdoor Working Levels of Radon [WLOTD(i,t)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	WLOTD(i,t) (WL)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Indoor Working Levels of Radon [WLIND(i,t)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	WLIND(i,t) (WL)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Fraction of Time Spent Outdoors (FOTD): 2.500E-01
Fraction of Time Spent Indoors (FIND): 5.000E-01

Dose/Source Ratios for Radon Pathway (p=9)
Subpathway: Outdoor and Indoor Radon Flux
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			DSR(j,9,t) - DSRRNW(j,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Radon Pathway (p=9)
Subpathway: Indoor Radon from Water Usage
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			DSRRNW(j,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Transport Time Parameters for Unsaturated Zone Stratum No. 1

Stratum thickness [h(1)]:	8.540000	m
Bulk soil material density [rhob(1)]:	1.500000	g/cm**3
Effective porosity [peuz(1)]:	0.200000	
Hydraulic conductivity [Khuz(1)]:	10.000000	m/yr
Total porosity [ptuz(1)]:	0.400000	
Soil specific b parameter [buz(1)]:	5.300000	
Saturation ratio [sruz(1)]:	0.761529	

Radio-nuclide (i)	Distribution Coefficient Kduz(i,1), cm**3/g	Retardation Factor Rduz(i,1)	Transport Time Dtuz(i,1), yr
Pb-210	1.0000E+02	4.9343E+02	2.6089E+03
Ra-226	1.6000E+02	7.8889E+02	4.1711E+03
Th-230	7.6000E+02	3.7435E+03	1.9793E+04
U-234	6.1000E+01	3.0138E+02	1.5935E+03
U-238	6.1000E+01	3.0138E+02	1.5935E+03

Transport Time Parameters for Unsaturated Zone created by the Falling Water Table

Water table drop rate [vwt]:	0.001000	m/yr
Bulk soil material density [rhobaq]:	1.500000	g/cm**3
Effective porosity [peaq]:	0.200000	
Hydraulic conductivity [Khaq]:	100.000000	m/yr
Total porosity [ptaq]:	0.400000	
Soil specific b parameter [baq]:	5.300000	
Saturation ratio [sruaq]:	0.642920	

Radio-nuclide (i)	Distribution Coefficient Kdaq(i), cm**3/g	Retardation Factor Rduaq(i)	Minimum Transport Time Dtuaq(i), yr
Pb-210	1.0000E+02	5.8428E+02	1.1471E+03
Ra-226	1.6000E+02	9.3424E+02	3.9808E+03
Th-230	7.6000E+02	4.4339E+03	Infinite
U-234	6.1000E+01	3.5680E+02	3.6532E+02
U-238	6.1000E+01	3.5680E+02	3.6532E+02

Dilution Factor and Rise Time Parameters for Nondispersion (ND) Model

Aquifer contamination depth at well (z):	1.23000E+01	m
Depth of water intake below water table (dw):	1.00000E+01	m
Infiltration rate (In):	2.46000E-01	m/yr
Aquifer water flow rate (Vwfr):	2.00000E+00	m/yr
Hydraulic gradient (J):	2.00000E-02	
Hydraulic conductivity of aquifer (Kszh):	1.00000E+02	m/yr
Contaminated zone extent parallel to gradient (l):	1.00000E+02	m
Distance below contaminated zone to water table (h):	0.85400E+01	m
Initial thickness of uncontaminated cover (Cd):	0.00000E+00	m
Initial thickness of contaminated zone (T):	0.60000E+00	m
Effective porosity of saturated zone (pesz):	0.20000E+00	

Radio-nuclide (i)	Dilution Factor f(i)	Retardation Factor Rdsz(i)	Horizontal Transport Time Onsite Tauh(i), yr	Rise Time dt(i), yr	Decay Time Parameter 1/lamda(i),yr
Pb-210	1.000E+00	3.760E+02	3.760E+03	3.057E+03	3.217E+01
Ra-226	1.000E+00	6.010E+02	6.010E+03	4.886E+03	2.308E+03
Th-230	1.000E+00	2.851E+03	2.851E+04	2.318E+04	1.111E+05
U-234	1.000E+00	2.298E+02	2.298E+03	1.868E+03	3.527E+05
U-238	1.000E+00	2.298E+02	2.298E+03	1.868E+03	6.446E+09

Primary Parameters Used for Calculating Water/Soil
Concentration Ratios for Groundwater Pathway Segment

Model used: Nondispersion (ND)
Bulk soil density in contaminated zone (rhob): 1.500 g/cm**3

Radio-nuclide (i)	Dilution Factor f(i)	Retardation Factor Rdcz(i)	Breakthrough Time Chain year	Breakthrough Time Single Nuclide Dt(i), yr	Rise Time dt(i), yr
Pb-210	1.000E+00	3.754E+02	1.959E+03	3.756E+03	3.057E+03
Ra-226	1.000E+00	4.128E+02	1.959E+03	8.152E+03	4.886E+03
Th-230	1.000E+00	5.616E+04	1.959E+03	Infinite	2.318E+04
U-234	1.000E+00	1.208E+02	1.959E+03	1.959E+03	1.868E+03
U-238	1.000E+00	1.208E+02	1.959E+03	1.959E+03	1.868E+03

Water/Soil Concentration Ratios [WSR(j,1,t)] for Groundwater Pathway Segment

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			WSR(j,1,t) in (pCi/L)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Water/Soil Concentration Ratios [WSR(j,2,t)] for Surface Water Pathway Segment

Watershed Area (Aw) = 1.0000E+06 m**2
Contaminated Zone Area (A) = 1.0000E+04 m**2
Dilution Factor (f') = 1.0000E-02
Soil Density (rhob) = 1.5000E+00 kg/m**3

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			WSR(j,2,t) in (pCi/L)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Storage Times For Contaminated Foodstuffs

k	Food Item	STOR_T(k), days
1	non-leafy plants	14.
2	leafy plants	1.
3	milk	1.
4	meat	20.
5	fish	7.
6	crustacea	7.
7	well water	1.
8	surface water	1.
9	livestock fodder	45.

Storage Time Ingrowth and Decay Factors
Storage Time for k'th Foodstuff: t = STOR_T(k), days

Parent (i)	Product (j)	Branch Fraction	STOR_ID(i,j,t) = CONCE(i,j,t)/CONCE(i,i,0) t= 1.400E+01	1.000E+00	1.000E+00	2.000E+01	7.000E+00	7.000E+00	1.000E+00	1.000E+00	4.500E+01
Pb-210	Pb-210	1.000E+00	9.988E-01	9.999E-01	9.999E-01	9.983E-01	9.994E-01	9.994E-01	9.999E-01	9.999E-01	9.962E-01
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	9.999E-01
Ra-226	Pb-210	1.000E+00	1.191E-03	8.510E-05	8.510E-05	1.701E-03	5.955E-04	5.955E-04	8.510E-05	8.510E-05	3.822E-03
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.661E-05	1.186E-06	1.186E-06	2.372E-05	8.303E-06	8.303E-06	1.186E-06	1.186E-06	5.337E-05
Th-230	Pb-210	1.000E+00	9.888E-09	5.047E-11	5.047E-11	2.018E-08	2.472E-09	2.472E-09	5.047E-11	5.047E-11	1.021E-07
U-234	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-234	Th-230	1.000E+00	3.450E-07	2.465E-08	2.465E-08	4.929E-07	1.725E-07	1.725E-07	2.465E-08	2.465E-08	1.109E-06
U-234	Ra-226	1.000E+00	2.865E-12	1.462E-14	1.462E-14	5.846E-12	7.162E-13	7.162E-13	1.462E-14	1.462E-14	2.960E-11
U-234	Pb-210	1.000E+00	1.137E-15	4.146E-19	4.146E-19	3.315E-15	1.422E-16	1.422E-16	4.146E-19	4.146E-19	3.774E-14
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.087E-07	7.762E-09	7.762E-09	1.552E-07	5.433E-08	5.433E-08	7.762E-09	7.762E-09	3.493E-07
U-238	Th-230	1.000E+00	1.875E-14	9.565E-17	9.565E-17	3.826E-14	4.687E-15	4.687E-15	9.565E-17	9.565E-17	1.937E-13
U-238	Ra-226	1.000E+00	1.038E-19	3.782E-23	3.782E-23	3.025E-19	1.297E-20	1.297E-20	3.782E-23	3.782E-23	3.446E-18
U-238	Pb-210	1.000E+00	3.090E-23	8.045E-28	8.045E-28	1.287E-22	1.931E-24	1.931E-24	8.045E-28	8.045E-28	3.296E-21

CONCE(i,j,t)/CONCE(i,i,0) is the concentration ratio of Product(j) at time t to Parent(i) at start of storage time.

Storage Time Correction Factors
Drinking Water from Well and/or Surface
Harvest Time = t - 2.74E-03 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,1)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Nonleafy Plants from Well and/or Surface
Harvest Time = t - 4.11E-02 yr; Consumption Time = t - 3.83E-02 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,2)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Leafy Plants from Well and/or Surface
Harvest Time = t - 5.48E-03 yr; Consumption Time = t - 2.74E-03 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,3)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Livestock (Milk) Fodder from Well and/or Surface
Harvest Time = t - 1.29E-01 yr; Consumption Time = t - 1.26E-01 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,5)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Livestock (Meat) Fodder from Well and/or Surface
Harvest Time = t - 1.81E-01 yr; Consumption Time = t - 1.78E-01 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,7)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Livestock (Milk) Water from Well and/or Surface
Harvest Time = t - 5.48E-03 yr; Consumption Time = t - 2.74E-03 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,4)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Livestock (Meat) Water from Well and/or Surface
Harvest Time = t - 5.75E-02 yr; Consumption Time = t - 5.48E-02 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,6)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Nonleafy Plants
Harvest Time = t - 3.83E-02 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	CF3(j,1,t)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Leafy Plants
Harvest Time = t - 2.74E-03 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CF3(j,2,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Livestock (Meat) Fodder
Harvest Time = t - 1.78E-01 yr; Consumption Time = t - 5.48E-02 yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CFLF(j,1,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01
Ra-226	Pb-210	1.000E+00	1.000E+00	1.602E+00	1.054E+00	1.012E+00	1.011E+00	1.011E+00	1.011E+00	1.011E+00	1.011E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.004E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	2.205E+00	1.107E+00	1.019E+00	1.014E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.150E+00	1.013E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.800E+00	1.061E+00	1.005E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.016E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	3.416E+00	1.208E+00	1.028E+00	1.016E+00	1.014E+00	1.013E+00	1.013E+00	1.013E+00

*Branch Fraction is the cumulative factor for the j't radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Livestock (Milk) Fodder
Harvest Time = t - 1.26E-01 yr; Consumption Time = t - 2.74E-03 yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CFLF(j,2,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01
Ra-226	Pb-210	1.000E+00	1.000E+00	1.566E+00	1.054E+00	1.012E+00	1.011E+00	1.011E+00	1.011E+00	1.011E+00	1.011E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.003E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	2.134E+00	1.107E+00	1.019E+00	1.014E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.141E+00	1.012E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.749E+00	1.061E+00	1.005E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.014E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	3.272E+00	1.207E+00	1.028E+00	1.016E+00	1.014E+00	1.013E+00	1.013E+00	1.013E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Meat
Harvest Time = t - 5.48E-02 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CF45(j,1,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.148E+00	1.017E+00	1.004E+00	1.003E+00	1.003E+00	1.003E+00	1.003E+00	1.003E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.241E+00	1.034E+00	1.006E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.058E+00	1.006E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.441E+00	1.041E+00	1.003E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.007E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.358E+00	1.062E+00	1.009E+00	1.005E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00

*Branch Fraction is the cumulative factor for the j't radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Milk
Harvest Time = t - 2.74E-03 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CF45(j,2,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.018E+00	1.002E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.030E+00	1.004E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.003E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.709E+00	1.070E+00	1.005E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.046E+00	1.008E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Fish & Crustacea
Harvest Time = t - 1.92E-02 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CFF(j,1,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Root Uptake from Contaminated Soil (q=1)

Area Factor for Plant Foods [FA(3)] = 0.50

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	Depth Factor FD(i,1,t) (dimensionless)								
Pb-210	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
Ra-226	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
Th-230	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
U-234	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
U-238	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Foliar Uptake from Contaminated Dust (q=2)

Area Factor for Plant Foods [FA(3)] = 0.50

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	Depth Factor FD(i,2,t) (dimensionless)								
Pb-210	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Ra-226	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Th-230	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-234	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-238	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Ditch Irrigation (q=3)

Area Factor for Plant Foods [FA(3)] = 0.50

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	Depth Factor FD(i,3,t) (dimensionless)								
Pb-210	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Ra-226	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Th-230	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-234	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-238	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Overhead Irrigation (q=4)

Area Factor for Plant Foods [FA(3)] = 0.50

The Depth Factor Value
FD(i,p,q,t) = 1.0000E+00
is applicable for all radionuclides(i) and times(t).

Area and Depth Factors for Meat (p=4) and Milk (p=5) Pathways
Transfer from Livestock Water (q=5) and Soil (q=6) Intake

Area Factor for Meat and Milk [FA(p),p=4,5] = 0.50

The livestock water subpathway (q=5) and livestock soil intake subpathway (q=6)
occur only for the meat (p=4) and milk (p=5) pathways.

Area and Depth Factors for Meat (p=4) and Milk (p=5) Pathways
Transfer from Livestock Water (q=5) and Soil (q=6) Intake

Area Factor for Meat and Milk [FA(p),p=4,5] = 0.50

The livestock water subpathway (q=5) and livestock soil intake subpathway (q=6)
occur only for the meat (p=4) and milk (p=5) pathways.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Root Uptake from Contaminated Soil (q=1)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,1,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Foliar Uptake from Contaminated Dust (q=2)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Ditch Irrigation (q=3)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,3,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Overhead Irrigation (q=4)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,4,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,1,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Ditch Irrigation (q=3)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,3,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Overhead Irrigation (q=4)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,4,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Livestock Water (q=5)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,5,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,1,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Ditch Irrigation (q=3)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,3,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Overhead Irrigation (q=4)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,4,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Livestock Water (q=5)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,5,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Fish Pathway (p=6)

Parent (i)	Product (j)	DCF(j,6)*	ETF(j,6,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Drinking Water Pathway (p=7)

Parent (i)	Product (j)	DCF(j,7)*	ETF(j,7,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Root Uptake from Contaminated Soil (q=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,1,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Foliar Uptake from Contaminated Dust (q=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Ditch Irrigation (q=3)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Overhead Irrigation (q=4)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,4,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Total for All Subpathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,1,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Ditch Irrigation (q=3)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Overhead Irrigation (q=4)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,4,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Livestock Water (q=5)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			DSR(j,4,5,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Total for All Subpathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			DSR(j,4,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,1,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Ditch Irrigation (q=3)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Overhead Irrigation (q=4)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,4,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Livestock Water (q=5)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	DSR(j,5,5,t) (mrem/yr)/(pCi/g) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Total for All Subpathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	DSR(j,5,t) (mrem/yr)/(pCi/g) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from the Ingestion of Fish (p=6)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	DSR(j,6,t) (mrem/yr)/(pCi/g) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from the Ingestion of Drinking Water (p=7)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	DSR(j,7,t) (mrem/yr)/(pCi/g) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Plant/Air and Plant/Water Concentration Ratios

Mass loading [ASR(3)]: 1.000E-04 g/m**3
Area Factor for Mass Loading [FA(2)]: 1.693E-01

Nuclide (i)	FAR(i,3,2,1) m**3/g	FAR(i,3,2,2) m**3/g	FWR(i,3,3,1) L/g	FWR(i,3,3,2) L/g	FWR(i,3,4,1) L/g	FWR(i,3,4,2) L/g
Pb-210	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ra-226	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-234	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

FAR(i,p,q,k) is the plant/air concentration ratio for airborne contaminated dust, and FWR(i,p,q,k) is the plant/water concentration ratio. See groundwater displays for water/soil concentration ratios.

Plant/Soil Concentration Ratios, FSR(i,3,q,k,t)

Root Uptake (q=1) and Foliar Dust Deposition (q=2)
Nonleafy (k=1) and/or Leafy (k=2) Vegetables

Nuclide(i) Parent	Product	FSR(i,3,1,k)	FSR(i,3,2,1)	FSR(i,3,2,2)
Ra-226	Ra-226	4.0000E-02	9.2345E-07	4.4282E-06
Ra-226	Pb-210	1.0000E-02	9.2345E-07	4.4282E-06
Th-230	Th-230	1.0000E-03	9.2345E-07	4.4282E-06
Th-230	Ra-226	4.0000E-02	9.2345E-07	4.4282E-06
Th-230	Pb-210	1.0000E-02	9.2345E-07	4.4282E-06
U-238	U-238	2.5000E-03	9.2345E-07	4.4282E-06
U-238	U-234	2.5000E-03	9.2345E-07	4.4282E-06
U-238	Th-230	1.0000E-03	9.2345E-07	4.4282E-06
U-238	Ra-226	4.0000E-02	9.2345E-07	4.4282E-06
U-238	Pb-210	1.0000E-02	9.2345E-07	4.4282E-06

Plant/Soil Concentration Ratio, FSR(j,3,q,k,t)
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			FSR(j,3,3,k,t)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Plant/Soil Concentration Ratio, FSR(j,3,q,k,t)
Overhead Irrigation (q=4) and Nonleafy Vegetables (k=1)

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			FSR(j,3,4,1,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Plant/Soil Concentration Ratio, FSR(j,3,q,k,t)
Overhead Irrigation (q=4) and Leafy Vegetables (k=2)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	FSR(j,3,4,2,t) * SF(j,t) 1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Fodder, Milk/Fodder, Fodder/Air and Fodder/Water Concentration Ratios

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     FI(4,q):   68.0 kg/day     FI(5,q):   55.0 kg/day   q=1,2,3,4
     FI(4,q):   50.0  L/day     FI(5,q):  160.0  L/day   q=5
     FI(4,q):    0.5 kg/day     FI(5,q):
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Nuclide (i)	FQR(i,4) d/kg	FQR(i,5) d/kg	FAR(i,3,2,3) m**3/g	FWR(i,3,3,3) L/g	FWR(i,3,4,3) L/g
Pb-210	8.0000E-04	3.0000E-04	2.8659E-01	0.0000E+00	0.0000E+00
Ra-226	1.0000E-03	1.0000E-03	2.8659E-01	0.0000E+00	0.0000E+00
Th-230	1.0000E-04	5.0000E-06	2.8659E-01	0.0000E+00	0.0000E+00
U-234	3.4000E-04	6.0000E-04	2.8659E-01	0.0000E+00	0.0000E+00
U-238	3.4000E-04	6.0000E-04	2.8659E-01	0.0000E+00	0.0000E+00

FI(p,q) are the fodder (q=1,2,3,4), livestock water (q=5) and soil (q=6) intake rates; FQR(i,p) are the transfer coefficients from contaminated fodder of livestock water to meat (p=4) or milk (p=5). FAR(i,3,2,3) are the fodder/air concentration ratios, and FWR(i,3,3,3) and FWR(i,3,4,3) are the fodder/water concentration ratios for ditch and overhead irrigation, respectively.

Fodder/Soil Concentration Ratios, QSR(i,p,q,t), for Meat and Milk Pathways
Root Uptake (q=1) and Foliar Dust Deposition (q=2)

Nuclide(i) Parent	Product	QSR(i,p,1)	QSR(i,p,2)
Ra-226	Ra-226	4.0000E-02	4.8520E-06
Ra-226	Pb-210	1.0000E-02	4.8520E-06
Th-230	Th-230	1.0000E-03	4.8520E-06
Th-230	Ra-226	4.0000E-02	4.8520E-06
Th-230	Pb-210	1.0000E-02	4.8520E-06
U-238	U-238	2.5000E-03	4.8520E-06
U-238	U-234	2.5000E-03	4.8520E-06
U-238	Th-230	1.0000E-03	4.8520E-06
U-238	Ra-226	4.0000E-02	4.8520E-06
U-238	Pb-210	1.0000E-02	4.8520E-06

Fodder/Soil Concentration Ratio, QSR(j,p,q,t),for Meat and Milk Pathways
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction*	QSR(j,p,3,t) * SF(j,t) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Fodder/Soil Concentration Ratio, QSR(j,p,q,t),for Meat and Milk Pathways
Overhead Irrigation (q=4)

Parent (i)	Product (j)	Branch Fraction*	t=	QSR(j,p,4,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Fodder/Soil Concentration Ratio, QSR(j,p,q,t),for Meat and Milk Pathways
Livestock Water (q=5)

Parent (i)	Product (j)	Branch Fraction*	t=	QSR(j,p,5,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Soil Concentration Ratios, FSR(i,4,q,t)
Root Uptake (q=1) and Foliar Dust Deposition (q=2)

Nuclide(i) Parent	Product	FSR(i,4,1)	FSR(i,4,2)
Ra-226	Ra-226	1.8133E-03	3.2993E-07
Ra-226	Pb-210	0.0000E+00	0.0000E+00
Th-230	Th-230	4.5333E-06	3.2993E-08
Th-230	Ra-226	0.0000E+00	0.0000E+00
Th-230	Pb-210	0.0000E+00	0.0000E+00
U-238	U-238	3.8533E-05	1.1218E-07
U-238	U-234	0.0000E+00	0.0000E+00
U-238	Th-230	0.0000E+00	0.0000E+00
U-238	Ra-226	0.0000E+00	0.0000E+00
U-238	Pb-210	0.0000E+00	0.0000E+00

Meat/Soil Concentration Ratio, FSR(j,4,q,t)
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction* t=	FSR(j,4,3,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Soil Concentration Ratio, FSR(j,4,q,t)
Overhead Irrigation (q=4)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,4,4,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Soil Concentration Ratio, FSR(j,4,q,t)
Livestock Water (q=5)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,4,5,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Milk/Soil Concentration Ratios, FSR(i,5,q,t)
Root Uptake (q=1) and Foliar Dust Deposition (q=2)

Nuclide(i) Parent	Product	FSR(i,5,1)	FSR(i,5,2)
Ra-226	Ra-226	1.4667E-03	2.6686E-07
Ra-226	Pb-210	0.0000E+00	0.0000E+00
Th-230	Th-230	1.8333E-07	1.3343E-09
Th-230	Ra-226	0.0000E+00	0.0000E+00
Th-230	Pb-210	0.0000E+00	0.0000E+00
U-238	U-238	5.5000E-05	1.6012E-07
U-238	U-234	0.0000E+00	0.0000E+00
U-238	Th-230	0.0000E+00	0.0000E+00
U-238	Ra-226	0.0000E+00	0.0000E+00
U-238	Pb-210	0.0000E+00	0.0000E+00

Milk/Soil Concentration Ratio, FSR(j,5,q,t)
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction* t=	FSR(j,5,3,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Milk/Soil Concentration Ratio, FSR(j,5,q,t)
Overhead Irrigation (q=4)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,5,4,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Milk/Soil Concentration Ratio, FSR(j,5,q,t)
Livestock Water (q=5)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,5,5,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Dose/Source Ratios for Soil Ingestion Pathway (p=8)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,8,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose Conversion and Environmental Transport Factors for the Soil Ingestion Pathway (p=8)

Parent (i)	Product (j)	DCF(j,8)*	ETF(j,8,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

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Total Dose Components
Time = 0.000E+00 10
Time = 1.000E+00 11
Time = 1.000E+01 12
Time = 1.000E+02 13
Time = 3.000E+02 14
Time = 6.000E+02 15
Time = 8.000E+02 16
Time = 9.000E+02 17
Time = 1.000E+03 18
Dose/Source Ratios Summed Over All Pathways 19
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Dose Per Nuclide Summed Over All Pathways 20
Soil Concentration Per Nuclide 20

Dose Conversion Factor (and Related) Parameter Summary
File: FGR 13 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
B-1	Dose conversion factors for inhalation, mrem/pCi:			
B-1	Pb-210+D	2.320E-02	2.320E-02	DCF2(1)
B-1	Ra-226+D	8.600E-03	8.600E-03	DCF2(2)
B-1	Th-230	3.260E-01	3.260E-01	DCF2(3)
B-1	U-234	1.320E-01	1.320E-01	DCF2(4)
B-1	U-238+D	1.180E-01	1.180E-01	DCF2(5)
D-1	Dose conversion factors for ingestion, mrem/pCi:			
D-1	Pb-210+D	7.270E-03	7.270E-03	DCF3(1)
D-1	Ra-226+D	1.330E-03	1.330E-03	DCF3(2)
D-1	Th-230	5.480E-04	5.480E-04	DCF3(3)
D-1	U-234	2.830E-04	2.830E-04	DCF3(4)
D-1	U-238+D	2.690E-04	2.690E-04	DCF3(5)
D-34	Food transfer factors:			
D-34	Pb-210+D , plant/soil concentration ratio, dimensionless	1.000E-02	1.000E-02	RTF(1,1)
D-34	Pb-210+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	8.000E-04	8.000E-04	RTF(1,2)
D-34	Pb-210+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	3.000E-04	3.000E-04	RTF(1,3)
D-34				
D-34	Ra-226+D , plant/soil concentration ratio, dimensionless	4.000E-02	4.000E-02	RTF(2,1)
D-34	Ra-226+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-03	1.000E-03	RTF(2,2)
D-34	Ra-226+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	1.000E-03	1.000E-03	RTF(2,3)
D-34				
D-34	Th-230 , plant/soil concentration ratio, dimensionless	1.000E-03	1.000E-03	RTF(3,1)
D-34	Th-230 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	1.000E-04	1.000E-04	RTF(3,2)
D-34	Th-230 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	5.000E-06	5.000E-06	RTF(3,3)
D-34				
D-34	U-234 , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(4,1)
D-34	U-234 , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(4,2)
D-34	U-234 , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(4,3)
D-34				
D-34	U-238+D , plant/soil concentration ratio, dimensionless	2.500E-03	2.500E-03	RTF(5,1)
D-34	U-238+D , beef/livestock-intake ratio, (pCi/kg)/(pCi/d)	3.400E-04	3.400E-04	RTF(5,2)
D-34	U-238+D , milk/livestock-intake ratio, (pCi/L)/(pCi/d)	6.000E-04	6.000E-04	RTF(5,3)
D-5	Bioaccumulation factors, fresh water, L/kg:			
D-5	Pb-210+D , fish	3.000E+02	3.000E+02	BIOFAC(1,1)
D-5	Pb-210+D , crustacea and mollusks	1.000E+02	1.000E+02	BIOFAC(1,2)
D-5				
D-5	Ra-226+D , fish	5.000E+01	5.000E+01	BIOFAC(2,1)
D-5	Ra-226+D , crustacea and mollusks	2.500E+02	2.500E+02	BIOFAC(2,2)
D-5				
D-5	Th-230 , fish	1.000E+02	1.000E+02	BIOFAC(3,1)
D-5	Th-230 , crustacea and mollusks	5.000E+02	5.000E+02	BIOFAC(3,2)
D-5				
D-5	U-234 , fish	1.000E+01	1.000E+01	BIOFAC(4,1)
D-5	U-234 , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(4,2)
D-5				

Dose Conversion Factor (and Related) Parameter Summary (continued)
File: FGR 13 Morbidity

Menu	Parameter	Current Value	Default	Parameter Name
D-5	U-238+D , fish	1.000E+01	1.000E+01	BIOFAC(5,1)
D-5	U-238+D , crustacea and mollusks	6.000E+01	6.000E+01	BIOFAC(5,2)

Site-Specific Parameter Summary

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R011	Area of contaminated zone (m**2)	1.000E+04	1.000E+04	---	AREA
R011	Thickness of contaminated zone (m)	6.000E-01	2.000E+00	---	THICK0
R011	Length parallel to aquifer flow (m)	1.000E+02	1.000E+02	---	LCZPAQ
R011	Basic radiation dose limit (mrem/yr)	2.500E+01	2.500E+01	---	BRDL
R011	Time since placement of material (yr)	0.000E+00	0.000E+00	---	TI
R011	Times for calculations (yr)	1.000E+00	1.000E+00	---	T(2)
R011	Times for calculations (yr)	1.000E+01	3.000E+00	---	T(3)
R011	Times for calculations (yr)	1.000E+02	1.000E+01	---	T(4)
R011	Times for calculations (yr)	3.000E+02	3.000E+01	---	T(5)
R011	Times for calculations (yr)	6.000E+02	1.000E+02	---	T(6)
R011	Times for calculations (yr)	8.000E+02	3.000E+02	---	T(7)
R011	Times for calculations (yr)	9.000E+02	1.000E+03	---	T(8)
R011	Times for calculations (yr)	1.000E+03	0.000E+00	---	T(9)
R011	Times for calculations (yr)	not used	0.000E+00	---	T(10)
R012	Initial principal radionuclide (pCi/g): Ra-226	1.000E+00	0.000E+00	---	S1(2)
R012	Initial principal radionuclide (pCi/g): Th-230	1.000E+00	0.000E+00	---	S1(3)
R012	Initial principal radionuclide (pCi/g): U-238	1.000E+00	0.000E+00	---	S1(5)
R012	Concentration in groundwater (pCi/L): Ra-226	not used	0.000E+00	---	W1(2)
R012	Concentration in groundwater (pCi/L): Th-230	not used	0.000E+00	---	W1(3)
R012	Concentration in groundwater (pCi/L): U-238	not used	0.000E+00	---	W1(5)
R013	Cover depth (m)	0.000E+00	0.000E+00	---	COVER0
R013	Density of cover material (g/cm**3)	not used	1.500E+00	---	DENSCV
R013	Cover depth erosion rate (m/yr)	not used	1.000E-03	---	VCV
R013	Density of contaminated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSCZ
R013	Contaminated zone erosion rate (m/yr)	0.000E+00	1.000E-03	---	VCZ
R013	Contaminated zone total porosity	4.920E-01	4.000E-01	---	TPCZ
R013	Contaminated zone field capacity	2.000E-01	2.000E-01	---	FCCZ
R013	Contaminated zone hydraulic conductivity (m/yr)	3.260E+01	1.000E+01	---	HCCZ
R013	Contaminated zone b parameter	1.040E+01	5.300E+00	---	BCZ
R013	Average annual wind speed (m/sec)	2.000E+00	2.000E+00	---	WIND
R013	Humidity in air (g/m**3)	not used	8.000E+00	---	HUMID
R013	Evapotranspiration coefficient	5.000E-01	5.000E-01	---	EVAPTR
R013	Precipitation (m/yr)	1.230E+00	1.000E+00	---	PRECIP
R013	Irrigation (m/yr)	0.000E+00	2.000E-01	---	RI
R013	Irrigation mode	overhead	overhead	---	IDITCH
R013	Runoff coefficient	6.000E-01	2.000E-01	---	RUNOFF
R013	Watershed area for nearby stream or pond (m**2)	1.000E+06	1.000E+06	---	WAREA
R013	Accuracy for water/soil computations	1.000E-03	1.000E-03	---	EPS
R014	Density of saturated zone (g/cm**3)	1.500E+00	1.500E+00	---	DENSAQ
R014	Saturated zone total porosity	4.000E-01	4.000E-01	---	TPSZ
R014	Saturated zone effective porosity	2.000E-01	2.000E-01	---	EPSZ
R014	Saturated zone field capacity	2.000E-01	2.000E-01	---	FCSZ
R014	Saturated zone hydraulic conductivity (m/yr)	1.000E+02	1.000E+02	---	HCSZ
R014	Saturated zone hydraulic gradient	2.000E-02	2.000E-02	---	HGWT
R014	Saturated zone b parameter	5.300E+00	5.300E+00	---	BSZ
R014	Water table drop rate (m/yr)	1.000E-03	1.000E-03	---	VWT
R014	Well pump intake depth (m below water table)	1.000E+01	1.000E+01	---	DWIBWT

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R014	Model: Nondispersion (ND) or Mass-Balance (MB)	ND	ND	---	MODEL
R014	Well pumping rate (m**3/yr)	not used	2.500E+02	---	UW
R015	Number of unsaturated zone strata	1	1	---	NS
R015	Unsat. zone 1, thickness (m)	8.540E+00	4.000E+00	---	H(1)
R015	Unsat. zone 1, soil density (g/cm**3)	1.500E+00	1.500E+00	---	DENSUZ(1)
R015	Unsat. zone 1, total porosity	4.000E-01	4.000E-01	---	TPUZ(1)
R015	Unsat. zone 1, effective porosity	2.000E-01	2.000E-01	---	EPUZ(1)
R015	Unsat. zone 1, field capacity	2.000E-01	2.000E-01	---	FCUZ(1)
R015	Unsat. zone 1, soil-specific b parameter	5.300E+00	5.300E+00	---	BUZ(1)
R015	Unsat. zone 1, hydraulic conductivity (m/yr)	1.000E+01	1.000E+01	---	HCUZ(1)
R016	Distribution coefficients for Ra-226				
R016	Contaminated zone (cm**3/g)	1.600E+03	7.000E+01	---	DCNUCC(2)
R016	Unsaturated zone 1 (cm**3/g)	2.300E+03	7.000E+01	---	DCNUCU(2,1)
R016	Saturated zone (cm**3/g)	2.300E+03	7.000E+01	---	DCNUCS(2)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	1.708E-04	ALEACH(2)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(2)
R016	Distribution coefficients for Th-230				
R016	Contaminated zone (cm**3/g)	1.200E+05	6.000E+04	---	DCNUCC(3)
R016	Unsaturated zone 1 (cm**3/g)	1.100E+04	6.000E+04	---	DCNUCU(3,1)
R016	Saturated zone (cm**3/g)	1.100E+04	6.000E+04	---	DCNUCS(3)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.278E-06	ALEACH(3)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(3)
R016	Distribution coefficients for U-238				
R016	Contaminated zone (cm**3/g)	4.700E+02	5.000E+01	---	DCNUCC(5)
R016	Unsaturated zone 1 (cm**3/g)	9.100E+02	5.000E+01	---	DCNUCU(5,1)
R016	Saturated zone (cm**3/g)	9.100E+02	5.000E+01	---	DCNUCS(5)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.812E-04	ALEACH(5)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(5)
R016	Distribution coefficients for daughter Pb-210				
R016	Contaminated zone (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCC(1)
R016	Unsaturated zone 1 (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCU(1,1)
R016	Saturated zone (cm**3/g)	1.000E+02	1.000E+02	---	DCNUCS(1)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	2.726E-03	ALEACH(1)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(1)
R016	Distribution coefficients for daughter U-234				
R016	Contaminated zone (cm**3/g)	4.700E+02	5.000E+01	---	DCNUCC(4)
R016	Unsaturated zone 1 (cm**3/g)	9.100E+02	5.000E+01	---	DCNUCU(4,1)
R016	Saturated zone (cm**3/g)	9.100E+02	5.000E+01	---	DCNUCS(4)
R016	Leach rate (/yr)	0.000E+00	0.000E+00	5.812E-04	ALEACH(4)
R016	Solubility constant	0.000E+00	0.000E+00	not used	SOLUBK(4)
R017	Inhalation rate (m**3/yr)	not used	8.400E+03	---	INHALR
R017	Mass loading for inhalation (g/m**3)	not used	1.000E-04	---	MLINH
R017	Exposure duration	3.000E+01	3.000E+01	---	ED

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R017	Shielding factor, inhalation	not used	4.000E-01	---	SHF3
R017	Shielding factor, external gamma	not used	7.000E-01	---	SHF1
R017	Fraction of time spent indoors	not used	5.000E-01	---	FIND
R017	Fraction of time spent outdoors (on site)	not used	2.500E-01	---	FOTD
R017	Shape factor flag, external gamma	not used	1.000E+00	>0 shows circular AREA.	FS
R017	Radii of shape factor array (used if FS = -1):				
R017	Outer annular radius (m), ring 1:	not used	5.000E+01	---	RAD_SHAPE(1)
R017	Outer annular radius (m), ring 2:	not used	7.071E+01	---	RAD_SHAPE(2)
R017	Outer annular radius (m), ring 3:	not used	0.000E+00	---	RAD_SHAPE(3)
R017	Outer annular radius (m), ring 4:	not used	0.000E+00	---	RAD_SHAPE(4)
R017	Outer annular radius (m), ring 5:	not used	0.000E+00	---	RAD_SHAPE(5)
R017	Outer annular radius (m), ring 6:	not used	0.000E+00	---	RAD_SHAPE(6)
R017	Outer annular radius (m), ring 7:	not used	0.000E+00	---	RAD_SHAPE(7)
R017	Outer annular radius (m), ring 8:	not used	0.000E+00	---	RAD_SHAPE(8)
R017	Outer annular radius (m), ring 9:	not used	0.000E+00	---	RAD_SHAPE(9)
R017	Outer annular radius (m), ring 10:	not used	0.000E+00	---	RAD_SHAPE(10)
R017	Outer annular radius (m), ring 11:	not used	0.000E+00	---	RAD_SHAPE(11)
R017	Outer annular radius (m), ring 12:	not used	0.000E+00	---	RAD_SHAPE(12)
R017	Fractions of annular areas within AREA:				
R017	Ring 1	not used	1.000E+00	---	FRACA(1)
R017	Ring 2	not used	2.732E-01	---	FRACA(2)
R017	Ring 3	not used	0.000E+00	---	FRACA(3)
R017	Ring 4	not used	0.000E+00	---	FRACA(4)
R017	Ring 5	not used	0.000E+00	---	FRACA(5)
R017	Ring 6	not used	0.000E+00	---	FRACA(6)
R017	Ring 7	not used	0.000E+00	---	FRACA(7)
R017	Ring 8	not used	0.000E+00	---	FRACA(8)
R017	Ring 9	not used	0.000E+00	---	FRACA(9)
R017	Ring 10	not used	0.000E+00	---	FRACA(10)
R017	Ring 11	not used	0.000E+00	---	FRACA(11)
R017	Ring 12	not used	0.000E+00	---	FRACA(12)
R018	Fruits, vegetables and grain consumption (kg/yr)	not used	1.600E+02	---	DIET(1)
R018	Leafy vegetable consumption (kg/yr)	not used	1.400E+01	---	DIET(2)
R018	Milk consumption (L/yr)	not used	9.200E+01	---	DIET(3)
R018	Meat and poultry consumption (kg/yr)	not used	6.300E+01	---	DIET(4)
R018	Fish consumption (kg/yr)	not used	5.400E+00	---	DIET(5)
R018	Other seafood consumption (kg/yr)	not used	9.000E-01	---	DIET(6)
R018	Soil ingestion rate (g/yr)	not used	3.650E+01	---	SOIL
R018	Drinking water intake (L/yr)	5.100E+02	5.100E+02	---	DWI
R018	Contamination fraction of drinking water	1.000E+00	1.000E+00	---	FDW
R018	Contamination fraction of household water	not used	1.000E+00	---	FHHW
R018	Contamination fraction of livestock water	not used	1.000E+00	---	FLW
R018	Contamination fraction of irrigation water	not used	1.000E+00	---	FIRW
R018	Contamination fraction of aquatic food	not used	5.000E-01	---	FR9
R018	Contamination fraction of plant food	not used	-1	---	FPLANT
R018	Contamination fraction of meat	not used	-1	---	FMEAT
R018	Contamination fraction of milk	not used	-1	---	FMILK

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
R019	Livestock fodder intake for meat (kg/day)	not used	6.800E+01	---	LFI5
R019	Livestock fodder intake for milk (kg/day)	not used	5.500E+01	---	LFI6
R019	Livestock water intake for meat (L/day)	not used	5.000E+01	---	LWI5
R019	Livestock water intake for milk (L/day)	not used	1.600E+02	---	LWI6
R019	Livestock soil intake (kg/day)	not used	5.000E-01	---	LSI
R019	Mass loading for foliar deposition (g/m**3)	not used	1.000E-04	---	MLFD
R019	Depth of soil mixing layer (m)	not used	1.500E-01	---	DM
R019	Depth of roots (m)	not used	9.000E-01	---	DROOT
R019	Drinking water fraction from ground water	1.000E+00	1.000E+00	---	FGWDW
R019	Household water fraction from ground water	not used	1.000E+00	---	FGWHH
R019	Livestock water fraction from ground water	not used	1.000E+00	---	FGWLW
R019	Irrigation fraction from ground water	not used	1.000E+00	---	FGWIR
R19B	Wet weight crop yield for Non-Leafy (kg/m**2)	not used	7.000E-01	---	YV(1)
R19B	Wet weight crop yield for Leafy (kg/m**2)	not used	1.500E+00	---	YV(2)
R19B	Wet weight crop yield for Fodder (kg/m**2)	not used	1.100E+00	---	YV(3)
R19B	Growing Season for Non-Leafy (years)	not used	1.700E-01	---	TE(1)
R19B	Growing Season for Leafy (years)	not used	2.500E-01	---	TE(2)
R19B	Growing Season for Fodder (years)	not used	8.000E-02	---	TE(3)
R19B	Translocation Factor for Non-Leafy	not used	1.000E-01	---	TIV(1)
R19B	Translocation Factor for Leafy	not used	1.000E+00	---	TIV(2)
R19B	Translocation Factor for Fodder	not used	1.000E+00	---	TIV(3)
R19B	Dry Foliar Interception Fraction for Non-Leafy	not used	2.500E-01	---	RDRY(1)
R19B	Dry Foliar Interception Fraction for Leafy	not used	2.500E-01	---	RDRY(2)
R19B	Dry Foliar Interception Fraction for Fodder	not used	2.500E-01	---	RDRY(3)
R19B	Wet Foliar Interception Fraction for Non-Leafy	not used	2.500E-01	---	RWET(1)
R19B	Wet Foliar Interception Fraction for Leafy	not used	2.500E-01	---	RWET(2)
R19B	Wet Foliar Interception Fraction for Fodder	not used	2.500E-01	---	RWET(3)
R19B	Weathering Removal Constant for Vegetation	not used	2.000E+01	---	WLAM
C14	C-12 concentration in water (g/cm**3)	not used	2.000E-05	---	C12WTR
C14	C-12 concentration in contaminated soil (g/g)	not used	3.000E-02	---	C12CZ
C14	Fraction of vegetation carbon from soil	not used	2.000E-02	---	CSOIL
C14	Fraction of vegetation carbon from air	not used	9.800E-01	---	CAIR
C14	C-14 evasion layer thickness in soil (m)	not used	3.000E-01	---	DMC
C14	C-14 evasion flux rate from soil (1/sec)	not used	7.000E-07	---	EVSN
C14	C-12 evasion flux rate from soil (1/sec)	not used	1.000E-10	---	REVSN
C14	Fraction of grain in beef cattle feed	not used	8.000E-01	---	AVFG4
C14	Fraction of grain in milk cow feed	not used	2.000E-01	---	AVFG5
C14	DCF correction factor for gaseous forms of C14	not used	8.894E+01	---	CO2F
STOR	Storage times of contaminated foodstuffs (days):				
STOR	Fruits, non-leafy vegetables, and grain	1.400E+01	1.400E+01	---	STOR_T(1)
STOR	Leafy vegetables	1.000E+00	1.000E+00	---	STOR_T(2)
STOR	Milk	1.000E+00	1.000E+00	---	STOR_T(3)
STOR	Meat and poultry	2.000E+01	2.000E+01	---	STOR_T(4)
STOR	Fish	7.000E+00	7.000E+00	---	STOR_T(5)
STOR	Crustacea and mollusks	7.000E+00	7.000E+00	---	STOR_T(6)
STOR	Well water	1.000E+00	1.000E+00	---	STOR_T(7)
STOR	Surface water	1.000E+00	1.000E+00	---	STOR_T(8)

Site-Specific Parameter Summary (continued)

Menu	Parameter	User Input	Default	Used by RESRAD (If different from user input)	Parameter Name
STOR	Livestock fodder	4.500E+01	4.500E+01	---	STOR_T(9)
R021	Thickness of building foundation (m)	not used	1.500E-01	---	FLOOR1
R021	Bulk density of building foundation (g/cm**3)	not used	2.400E+00	---	DENSFL
R021	Total porosity of the cover material	not used	4.000E-01	---	TPCV
R021	Total porosity of the building foundation	not used	1.000E-01	---	TPFL
R021	Volumetric water content of the cover material	not used	5.000E-02	---	PH2OCV
R021	Volumetric water content of the foundation	not used	3.000E-02	---	PH2OFL
R021	Diffusion coefficient for radon gas (m/sec):				
R021	in cover material	not used	2.000E-06	---	DIFCV
R021	in foundation material	not used	3.000E-07	---	DIFFL
R021	in contaminated zone soil	not used	2.000E-06	---	DIFCZ
R021	Radon vertical dimension of mixing (m)	not used	2.000E+00	---	HMIX
R021	Average building air exchange rate (1/hr)	not used	5.000E-01	---	REXG
R021	Height of the building (room) (m)	not used	2.500E+00	---	HRM
R021	Building interior area factor	not used	0.000E+00	---	FAI
R021	Building depth below ground surface (m)	not used	-1.000E+00	---	DMFL
R021	Emanating power of Rn-222 gas	not used	2.500E-01	---	EMANA(1)
R021	Emanating power of Rn-220 gas	not used	1.500E-01	---	EMANA(2)
TITL	Number of graphical time points	32	---	---	NPTS
TITL	Maximum number of integration points for dose	17	---	---	LYMAX
TITL	Maximum number of integration points for risk	257	---	---	KYMAX

Summary of Pathway Selections

Pathway	User Selection
1 -- external gamma	suppressed
2 -- inhalation (w/o radon)	suppressed
3 -- plant ingestion	suppressed
4 -- meat ingestion	suppressed
5 -- milk ingestion	suppressed
6 -- aquatic foods	suppressed
7 -- drinking water	active
8 -- soil ingestion	suppressed
9 -- radon	suppressed
Find peak pathway doses	active

Contaminated Zone Dimensions		Initial Soil Concentrations, pCi/g	
Area:	10000.00 square meters	Ra-226	1.000E+00
Thickness:	0.60 meters	Th-230	1.000E+00
Cover Depth:	0.00 meters	U-238	1.000E+00

Total Dose TDOSE(t), mrem/yr
Basic Radiation Dose Limit = 2.500E+01 mrem/yr
Total Mixture Sum M(t) = Fraction of Basic Dose Limit Received at Time (t)

t (years):	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
TDOSE(t):	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
M(t):	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Maximum TDOSE(t): 0.000E+00 mrem/yr at t = 0.000E+00 years

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 0.000E+00 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+00 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+01 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 3.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 6.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 6.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 8.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 8.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 9.000E+02 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 9.000E+02 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Independent Pathways (Inhalation excludes radon)

Radio-	Ground		Inhalation		Radon		Plant		Meat		Milk		Soil	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

Total Dose Contributions TDOSE(i,p,t) for Individual Radionuclides (i) and Pathways (p)
As mrem/yr and Fraction of Total Dose At t = 1.000E+03 years

Water Dependent Pathways

Radio-	Water		Fish		Radon		Plant		Meat		Milk		All Pathways*	
Nuclide	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.	mrem/yr	fract.
Ra-226	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Th-230	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
U-238	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000
Total	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000	0.000E+00	0.0000

*Sum of all water independent and dependent pathways.

Dose/Source Ratios Summed Over All Pathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	DSR(j,t) (mrem/yr)/(pCi/g) 1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Single Radionuclide Soil Guidelines G(i,t) in pCi/g
Basic Radiation Dose Limit = 2.500E+01 mrem/yr

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11	*9.882E+11
Th-230	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10	*2.018E+10
U-238	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05	*3.360E+05

*At specific activity limit

Summed Dose/Source Ratios DSR(i,t) in (mrem/yr)/(pCi/g)
and Single Radionuclide Soil Guidelines G(i,t) in pCi/g
at tmin = time of minimum single radionuclide soil guideline
and at tmax = time of maximum total dose = 0.000E+00 years

Nuclide (i)	Initial (pCi/g)	tmin (years)	DSR(i,tmin)	G(i,tmin) (pCi/g)	DSR(i,tmax)	G(i,tmax) (pCi/g)
Ra-226	1.000E+00	0.000E+00	0.000E+00	*9.882E+11	0.000E+00	*9.882E+11
Th-230	1.000E+00	0.000E+00	0.000E+00	*2.018E+10	0.000E+00	*2.018E+10
U-238	1.000E+00	0.000E+00	0.000E+00	*3.360E+05	0.000E+00	*3.360E+05

*At specific activity limit

Individual Nuclide Dose Summed Over All Pathways
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	DOSE(j,t), mrem/yr t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DOSE(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Pb-210	∑DOSE(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DOSE(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

BRF(i) is the branch fraction of the parent nuclide.

Individual Nuclide Soil Concentration
Parent Nuclide and Branch Fraction Indicated

Nuclide (j)	Parent (i)	BRF(i)	S(j,t), pCi/g t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	9.994E-01	9.940E-01	9.414E-01	8.343E-01	6.960E-01	6.168E-01	5.806E-01	5.466E-01
Ra-226	Th-230	1.000E+00	0.000E+00	4.331E-04	4.319E-03	4.202E-02	1.187E-01	2.173E-01	2.735E-01	2.991E-01	3.232E-01
Ra-226	U-238	1.000E+00	0.000E+00	1.842E-15	1.834E-12	1.763E-09	4.356E-08	3.054E-07	6.635E-07	9.046E-07	1.188E-06
Ra-226	∑S(j):		1.000E+00	9.998E-01	9.983E-01	9.834E-01	9.529E-01	9.133E-01	8.903E-01	8.798E-01	8.698E-01
Pb-210	Ra-226	1.000E+00	0.000E+00	3.055E-02	2.629E-01	8.494E-01	7.809E-01	6.515E-01	5.774E-01	5.435E-01	5.117E-01
Pb-210	Th-230	1.000E+00	0.000E+00	6.656E-06	6.021E-04	2.775E-02	9.912E-02	1.915E-01	2.441E-01	2.681E-01	2.907E-01
Pb-210	U-238	1.000E+00	0.000E+00	1.422E-17	1.335E-13	7.948E-10	3.060E-08	2.459E-07	5.535E-07	7.637E-07	1.013E-06
Pb-210	∑S(j):		0.000E+00	3.056E-02	2.635E-01	8.771E-01	8.800E-01	8.430E-01	8.215E-01	8.117E-01	8.023E-01
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	9.999E-01	9.989E-01	9.966E-01	9.933E-01	9.910E-01	9.899E-01	9.888E-01
Th-230	U-238	1.000E+00	0.000E+00	1.276E-11	1.271E-09	1.227E-07	1.022E-06	3.642E-06	6.003E-06	7.316E-06	8.701E-06
Th-230	∑S(j):		1.000E+00	1.000E+00	9.999E-01	9.989E-01	9.966E-01	9.933E-01	9.910E-01	9.899E-01	9.888E-01
U-238	U-238	1.000E+00	1.000E+00	9.994E-01	9.942E-01	9.435E-01	8.400E-01	7.056E-01	6.281E-01	5.927E-01	5.592E-01
U-234	U-238	1.000E+00	0.000E+00	2.833E-06	2.818E-05	2.674E-04	7.141E-04	1.199E-03	1.423E-03	1.510E-03	1.583E-03

BRF(i) is the branch fraction of the parent nuclide.

RESCALC.EXE execution time = 1.09 seconds

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Source Factors for Ingrowth and Decay
Radioactivity Factors Only
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	ID(j,t) = CUMBRF(j)*S1(j,t)/S1(i,0) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	9.996E-01	9.957E-01	9.576E-01	8.781E-01	7.711E-01	7.071E-01	6.771E-01	6.484E-01
Ra-226	Pb-210	1.000E+00	0.000E+00	3.060E-02	2.666E-01	9.258E-01	8.904E-01	7.820E-01	7.171E-01	6.867E-01	6.576E-01
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	9.999E-01	9.991E-01	9.973E-01	9.946E-01	9.928E-01	9.919E-01	9.910E-01
Th-230	Ra-226	1.000E+00	0.000E+00	4.331E-04	4.323E-03	4.238E-02	1.217E-01	2.283E-01	2.918E-01	3.215E-01	3.499E-01
Th-230	Pb-210	1.000E+00	0.000E+00	6.663E-06	6.077E-04	2.948E-02	1.093E-01	2.174E-01	2.819E-01	3.120E-01	3.408E-01
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	0.000E+00	2.835E-06	2.835E-05	2.835E-04	8.501E-04	1.700E-03	2.265E-03	2.548E-03	2.831E-03
U-238	Th-230	1.000E+00	0.000E+00	1.276E-11	1.276E-09	1.275E-07	1.147E-06	4.583E-06	8.141E-06	1.030E-05	1.271E-05
U-238	Ra-226	1.000E+00	0.000E+00	1.842E-15	1.841E-12	1.822E-09	4.813E-08	3.728E-07	8.649E-07	1.219E-06	1.654E-06
U-238	Pb-210	1.000E+00	0.000E+00	1.423E-17	1.346E-13	8.486E-10	3.570E-08	3.198E-07	7.710E-07	1.100E-06	1.509E-06

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).

Source Factors for Ingrowth and Decay
Combined Radioactivity and Leaching Factors
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	SF(j,t) = CUMBRF(j)*S1(j,t)/S1(i,0) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	9.994E-01	9.940E-01	9.414E-01	8.343E-01	6.960E-01	6.168E-01	5.806E-01	5.466E-01
Ra-226	Pb-210	1.000E+00	0.000E+00	3.055E-02	2.629E-01	8.494E-01	7.809E-01	6.515E-01	5.774E-01	5.435E-01	5.117E-01
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	9.999E-01	9.989E-01	9.966E-01	9.933E-01	9.910E-01	9.899E-01	9.888E-01
Th-230	Ra-226	1.000E+00	0.000E+00	4.331E-04	4.319E-03	4.202E-02	1.187E-01	2.173E-01	2.735E-01	2.991E-01	3.232E-01
Th-230	Pb-210	1.000E+00	0.000E+00	6.656E-06	6.021E-04	2.775E-02	9.912E-02	1.915E-01	2.441E-01	2.681E-01	2.907E-01
U-238	U-238	1.000E+00	1.000E+00	9.994E-01	9.942E-01	9.435E-01	8.400E-01	7.056E-01	6.281E-01	5.927E-01	5.592E-01
U-238	U-234	1.000E+00	0.000E+00	2.833E-06	2.818E-05	2.674E-04	7.141E-04	1.199E-03	1.423E-03	1.510E-03	1.583E-03
U-238	Th-230	1.000E+00	0.000E+00	1.276E-11	1.271E-09	1.227E-07	1.022E-06	3.642E-06	6.003E-06	7.316E-06	8.701E-06
U-238	Ra-226	1.000E+00	0.000E+00	1.842E-15	1.834E-12	1.763E-09	4.356E-08	3.054E-07	6.635E-07	9.046E-07	1.188E-06
U-238	Pb-210	1.000E+00	0.000E+00	1.422E-17	1.335E-13	7.948E-10	3.060E-08	2.459E-07	5.535E-07	7.637E-07	1.013E-06

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The effect of volatilization was also considered when computing the source factors for H-3 and C-14.

Parameters Used for Calculating Cover Depth and Contaminated Zone Thicknesses

Cover Erosion rate (vcv): 0.001000 m/yr
Contaminated Zone Erosion rate (vcz): 0.000000 m/yr
Water Table Drop rate (vwt): 0.001000 m/yr
Precipitation rate (Pr): 1.230000 m/yr
Cover Removal Time (Tc): 0.000E+00 yr
Overhead irrigation rate (Irr): 0.000 m/yr
Runoff coefficient (Cr): 0.600
Evapotranspiration coeff. (Ce): 0.500
Infiltration rate (In): 0.246 m/yr
Bulk soil density (rhob): 1.500 g/cm**3
Effective porosity (pe): 0.000

Radio-nuclide (i)	Distribution Coefficient Kd(i),cm**3/g	Leaching Ratio q(i)
Pb-210	1.000000E+02	2.664E-03
Ra-226	1.600000E+03	1.669E-04
Th-230	1.200000E+05	2.226E-06
U-234	4.700000E+02	5.680E-04
U-238	4.700000E+02	5.680E-04

Time Dependence of Source Geometry

Time Dependence of Cover Depth [Cd(i,t)]

Nuclide (i)	Cd(i,t) (meters) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-234	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Time Dependence of Contaminated Zone Thicknesses [T(i,t)]

Nuclide (i)	T(i,t) (meters) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
Ra-226	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
Th-230	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
U-234	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01
U-238	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01	6.0000E-01

Occupancy, Cover/Depth, and Area Factors for Ground Pathway

Occupancy Factor (FO1): 0.000
Area (A): 10000. sq. meters
Initial cover depth (Cd): 0.000 meters
Initial contaminated zone thickness (T): 0.600 meters

Time Dependence of Cover/Depth Factor [FCTR_COV_DEPTH(i,t)]

FCTR_COV_DEPTH(i,t) (dimensionless)

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Time Dependence of Area Factor [FCTR_AREA(i,t)]

FCTR_AREA(i,t) (dimensionless)

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Pb-210	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-234	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Dose Conversion and Environmental Transport Factors for the Ground Pathway (p=1)

ETF(j,1,t) (dimensionless)

Parent (i)	Product (j)	DCF(j,1)*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.120E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	6.120E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.210E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.120E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	6.120E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.520E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	4.020E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.210E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.120E+01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	6.120E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are (mrem/yr)/(pCi/g) at infinite depth and area.

Dose/Source Ratios for External Radiation from the Ground (p=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				DSR(j,1,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Inhalation Pathway, Excluding Radon (p=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Pathway Factors for the Inhalation Pathway (radon excluded)

Area (A): 1.0000E+04 m**2
Occupancy Factor (FO2): 4.5000E-01
Area Factor (FA2): 1.6930E-01
Annual Air Intake (F12): 8.4000E+03 m**3/yr
Cover Depth [Cd(0)]: 0.0000E+00 m
Mass Loading (ASR2): 1.0000E-04 g/m**3
Contaminated Zone Thickness [T(0)]: 6.0000E-01 m
FA2 * FO2 * F12 * ASR2: 6.3995E-02 g/yr

Nuclide (i)	Depth Factor [FD(i,2,t)] (dimensionless) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226+D	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Th-230	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-238 +D	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00

Dose Conversion and Environmental Transport Factors for the Inhalation Pathway, Excluding Radon (p=2)

Parent (i)	Product (j)	DCF(j,2)*	ETF(j,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	8.600E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	2.320E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	3.260E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	8.600E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	2.320E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.180E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.320E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	3.260E-01	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	8.600E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	2.320E-02	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Parameters Used for Calculating Indoor and Outdoor Radon Flux

	*Floor Material	Cover Material	Contaminated Zone
Radon Diffusion Coefficient (m**2/s)	3.000E-07	2.000E-06	2.000E-06
Total Porosity	1.000E-01	4.000E-01	4.920E-01
Volumetric Water Content	3.000E-02	5.000E-02	4.007E-01
Bulk Density (g/cm**3)	2.400E+00	1.500E+00	1.500E+00
Rn-222 Emanation Coefficient	2.500E-01	2.500E-01	2.500E-01
Initial Thickness (m)	1.500E-01	0.000E+00	6.000E-01

Building Depth Below Ground Surface *(DMFL): -1.000E+00 (m)
Negative DMFL shows building depth adjusted (if necessary) for no penetration
of contaminated zone. Actual values used *(DMFLACT), m:

t=	0.0000E+00	1.0000E+00	1.0000E+01	1.0000E+02	3.0000E+02	6.0000E+02	8.0000E+02	9.0000E+02	1.0000E+03
DMFLACT=	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Building indoor area factor *(FAI): 0.000E+00
FAI <= 0.0 shows calculated time-dependent value based on amount of wall area
extending into the contaminated zone. Actual values used *(FAIACT):

t=	0.0000E+00	1.0000E+00	1.0000E+01	1.0000E+02	3.0000E+02	6.0000E+02	8.0000E+02	9.0000E+02	1.0000E+03
FAIACT =	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

* - Parameters are used only for indoor radon flux

Time Dependence of Outdoor Radon Flux [FLUXO(i,t)]

Nuclide (i)	FLUXO(i,t) (pCi/m**2/s) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Time Dependence of Indoor Radon Flux [FLUXI(i,t)]

Nuclide (i)	FLUXI(i,t) (pCi/m**2/s) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Parameters Used for Calculating Indoor and Outdoor Radon Concentration

Radon Vertical Dimension of Mixing (HMIX):	2.000E+00	(m)
Average Annual Wind Speed (WIND):	2.000E+00	(m/sec)
Building Room Height (HRM):	2.500E+00	(m)
Building Air Exchange Rate (REXG):	5.000E-01	(1/hr)

Time Dependence of Outdoor Radon Concentration [CRNO(i,t)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	CRNO(i,t) (pCi/m**3)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Time Dependence of Indoor Radon Concentration [HCONC(i,r)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	HCONC(i,t) (pCi/m**3)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Outdoor Working Levels of Radon [WLOTD(i,t)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	WLOTD(i,t) (WL)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Indoor Working Levels of Radon [WLIND(i,t)]

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	WLIND(i,t) (WL)								
Ra-226	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

Fraction of Time Spent Outdoors (FOTD): 2.500E-01
Fraction of Time Spent Indoors (FIND): 5.000E-01

Dose/Source Ratios for Radon Pathway (p=9)
Subpathway: Outdoor and Indoor Radon Flux
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,9,t) - DSRRNW(j,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Radon Pathway (p=9)
Subpathway: Indoor Radon from Water Usage
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSRRNW(j,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Transport Time Parameters for Unsaturated Zone Stratum No. 1

Stratum thickness [h(1)]:	8.540000	m
Bulk soil material density [rhob(1)]:	1.500000	g/cm**3
Effective porosity [peuz(1)]:	0.200000	
Hydraulic conductivity [Khuz(1)]:	10.000000	m/yr
Total porosity [ptuz(1)]:	0.400000	
Soil specific b parameter [buz(1)]:	5.300000	
Saturation ratio [sruz(1)]:	0.761529	

Radio-nuclide (i)	Distribution Coefficient Kduz(i,1), cm**3/g	Retardation Factor Rduz(i,1)	Transport Time Dtuz(i,1), yr
Pb-210	1.0000E+02	4.9343E+02	2.6089E+03
Ra-226	2.3000E+03	1.1327E+04	5.9889E+04
Th-230	1.1000E+04	5.4168E+04	2.8641E+05
U-234	9.1000E+02	4.4821E+03	2.3699E+04
U-238	9.1000E+02	4.4821E+03	2.3699E+04

Transport Time Parameters for Unsaturated Zone created by the Falling Water Table

Water table drop rate [vwt]:	0.001000	m/yr
Bulk soil material density [rhobaq]:	1.500000	g/cm**3
Effective porosity [peaq]:	0.200000	
Hydraulic conductivity [Khaq]:	100.000000	m/yr
Total porosity [ptaq]:	0.400000	
Soil specific b parameter [baq]:	5.300000	
Saturation ratio [sruaq]:	0.642920	

Radio-nuclide (i)	Distribution Coefficient Kdaq(i), cm**3/g	Retardation Factor Rduaq(i)	Minimum Transport Time Dtuaq(i), yr
Pb-210	1.0000E+02	5.8428E+02	1.1471E+03
Ra-226	2.3000E+03	1.3416E+04	Infinite
Th-230	1.1000E+04	6.4161E+04	Infinite
U-234	9.1000E+02	5.3088E+03	Infinite
U-238	9.1000E+02	5.3088E+03	Infinite

Dilution Factor and Rise Time Parameters for Nondispersion (ND) Model

Aquifer contamination depth at well (z):	1.23000E+01	m
Depth of water intake below water table (dw):	1.00000E+01	m
Infiltration rate (In):	2.46000E-01	m/yr
Aquifer water flow rate (Vwfr):	2.00000E+00	m/yr
Hydraulic gradient (J):	2.00000E-02	
Hydraulic conductivity of aquifer (Kszh):	1.00000E+02	m/yr
Contaminated zone extent parallel to gradient (l):	1.00000E+02	m
Distance below contaminated zone to water table (h):	0.85400E+01	m
Initial thickness of uncontaminated cover (Cd):	0.00000E+00	m
Initial thickness of contaminated zone (T):	0.60000E+00	m
Effective porosity of saturated zone (pesz):	0.20000E+00	

Radio-nuclide (i)	Dilution Factor f(i)	Retardation Factor Rdsz(i)	Horizontal Transport Time Onsite Tauh(i), yr	Rise Time dt(i), yr	Decay Time Parameter 1/lamda(i),yr
Pb-210	1.000E+00	3.760E+02	3.760E+03	3.057E+03	3.217E+01
Ra-226	1.000E+00	8.626E+03	8.626E+04	7.013E+04	2.308E+03
Th-230	1.000E+00	4.125E+04	4.125E+05	3.354E+05	1.111E+05
U-234	1.000E+00	3.414E+03	3.414E+04	2.775E+04	3.527E+05
U-238	1.000E+00	3.414E+03	3.414E+04	2.775E+04	6.446E+09

Primary Parameters Used for Calculating Water/Soil
Concentration Ratios for Groundwater Pathway Segment

Model used: Nondispersion (ND)
Bulk soil density in contaminated zone (rhob): 1.500 g/cm**3

Radio-nuclide (i)	Dilution Factor f(i)	Retardation Factor Rdcz(i)	Breakthrough Time Chain year	Breakthrough Time Single Nuclide Dt(i), yr	Rise Time dt(i), yr
Pb-210	1.000E+00	3.754E+02	3.756E+03	3.756E+03	3.057E+03
Ra-226	1.000E+00	5.991E+03	Infinite	Infinite	7.013E+04
Th-230	1.000E+00	4.492E+05	Infinite	Infinite	3.354E+05
U-234	1.000E+00	1.761E+03	Infinite	Infinite	2.775E+04
U-238	1.000E+00	1.761E+03	Infinite	Infinite	2.775E+04

Water/Soil Concentration Ratios [WSR(j,1,t)] for Groundwater Pathway Segment

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			WSR(j,1,t) in (pCi/L)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Water/Soil Concentration Ratios [WSR(j,2,t)] for Surface Water Pathway Segment

Watershed Area (Aw) = 1.0000E+06 m**2
Contaminated Zone Area (A) = 1.0000E+04 m**2
Dilution Factor (f') = 1.0000E-02
Soil Density (rhob) = 1.5000E+00 kg/m**3

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			WSR(j,2,t) in (pCi/L)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Storage Times For Contaminated Foodstuffs

k	Food Item	STOR_T(k), days
1	non-leafy plants	14.
2	leafy plants	1.
3	milk	1.
4	meat	20.
5	fish	7.
6	crustacea	7.
7	well water	1.
8	surface water	1.
9	livestock fodder	45.

Storage Time Ingrowth and Decay Factors
Storage Time for k'th Foodstuff: t = STOR_T(k), days

Parent (i)	Product (j)	Branch Fraction	STOR_ID(i,j,t) = CONCE(i,j,t)/CONCE(i,i,0) t= 1.400E+01	1.000E+00	1.000E+00	2.000E+01	7.000E+00	7.000E+00	1.000E+00	1.000E+00	4.500E+01
Pb-210	Pb-210	1.000E+00	9.988E-01	9.999E-01	9.999E-01	9.983E-01	9.994E-01	9.994E-01	9.999E-01	9.999E-01	9.962E-01
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	9.999E-01
Ra-226	Pb-210	1.000E+00	1.191E-03	8.510E-05	8.510E-05	1.701E-03	5.955E-04	5.955E-04	8.510E-05	8.510E-05	3.822E-03
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.661E-05	1.186E-06	1.186E-06	2.372E-05	8.303E-06	8.303E-06	1.186E-06	1.186E-06	5.337E-05
Th-230	Pb-210	1.000E+00	9.888E-09	5.047E-11	5.047E-11	2.018E-08	2.472E-09	2.472E-09	5.047E-11	5.047E-11	1.021E-07
U-234	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-234	Th-230	1.000E+00	3.450E-07	2.465E-08	2.465E-08	4.929E-07	1.725E-07	1.725E-07	2.465E-08	2.465E-08	1.109E-06
U-234	Ra-226	1.000E+00	2.865E-12	1.462E-14	1.462E-14	5.846E-12	7.162E-13	7.162E-13	1.462E-14	1.462E-14	2.960E-11
U-234	Pb-210	1.000E+00	1.137E-15	4.146E-19	4.146E-19	3.315E-15	1.422E-16	1.422E-16	4.146E-19	4.146E-19	3.774E-14
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.087E-07	7.762E-09	7.762E-09	1.552E-07	5.433E-08	5.433E-08	7.762E-09	7.762E-09	3.493E-07
U-238	Th-230	1.000E+00	1.875E-14	9.565E-17	9.565E-17	3.826E-14	4.687E-15	4.687E-15	9.565E-17	9.565E-17	1.937E-13
U-238	Ra-226	1.000E+00	1.038E-19	3.782E-23	3.782E-23	3.025E-19	1.297E-20	1.297E-20	3.782E-23	3.782E-23	3.446E-18
U-238	Pb-210	1.000E+00	3.090E-23	8.045E-28	8.045E-28	1.287E-22	1.931E-24	1.931E-24	8.045E-28	8.045E-28	3.296E-21

CONCE(i,j,t)/CONCE(i,i,0) is the concentration ratio of Product(j) at time t to Parent(i) at start of storage time.

Storage Time Correction Factors
Drinking Water from Well and/or Surface
Harvest Time = t - 2.74E-03 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,1)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Nonleafy Plants from Well and/or Surface
Harvest Time = t - 4.11E-02 yr; Consumption Time = t - 3.83E-02 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,2)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Leafy Plants from Well and/or Surface
Harvest Time = t - 5.48E-03 yr; Consumption Time = t - 2.74E-03 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,3)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Livestock (Milk) Fodder from Well and/or Surface
Harvest Time = t - 1.29E-01 yr; Consumption Time = t - 1.26E-01 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,5)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Irrigation Water for Livestock (Meat) Fodder from Well and/or Surface
Harvest Time = t - 1.81E-01 yr; Consumption Time = t - 1.78E-01 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,7)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Livestock (Milk) Water from Well and/or Surface
Harvest Time = t - 5.48E-03 yr; Consumption Time = t - 2.74E-03 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,4)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors
Livestock (Meat) Water from Well and/or Surface
Harvest Time = t - 5.75E-02 yr; Consumption Time = t - 5.48E-02 yr

Parent (i)	Product (j)	Branch Fraction*	CFWW(j,t,6)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Nonleafy Plants
Harvest Time = t - 3.83E-02 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	CF3(j,1,t)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Leafy Plants
Harvest Time = t - 2.74E-03 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	CF3(j,2,t)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Livestock (Meat) Fodder
Harvest Time = t - 1.78E-01 yr; Consumption Time = t - 5.48E-02 yr

Parent (i)	Product (j)	Branch Fraction*	CFLF(j,1,t)# t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	1.000E+00	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01
Ra-226	Pb-210	1.000E+00	1.000E+00	1.602E+00	1.055E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.004E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	2.205E+00	1.108E+00	1.019E+00	1.014E+00	1.014E+00	1.013E+00	1.013E+00	1.013E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.150E+00	1.013E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.802E+00	1.063E+00	1.006E+00	1.002E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.016E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	3.418E+00	1.210E+00	1.030E+00	1.018E+00	1.015E+00	1.014E+00	1.014E+00	1.014E+00

*Branch Fraction is the cumulative factor for the j't radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Livestock (Milk) Fodder
Harvest Time = t - 1.26E-01 yr; Consumption Time = t - 2.74E-03 yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CFLF(j,2,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01	9.999E-01
Ra-226	Pb-210	1.000E+00	1.000E+00	1.567E+00	1.055E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00	1.013E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.003E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	2.134E+00	1.107E+00	1.019E+00	1.014E+00	1.014E+00	1.013E+00	1.013E+00	1.013E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.141E+00	1.012E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.751E+00	1.062E+00	1.006E+00	1.002E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.015E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	3.274E+00	1.209E+00	1.030E+00	1.018E+00	1.015E+00	1.014E+00	1.014E+00	1.014E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Meat
Harvest Time = t - 5.48E-02 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CF45(j,1,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.148E+00	1.017E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.241E+00	1.034E+00	1.006E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00	1.004E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.058E+00	1.006E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.442E+00	1.042E+00	1.004E+00	1.001E+00	1.001E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.007E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.359E+00	1.063E+00	1.010E+00	1.006E+00	1.005E+00	1.004E+00	1.004E+00	1.004E+00

*Branch Fraction is the cumulative factor for the j't radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Milk
Harvest Time = t - 2.74E-03 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CF45(j,2,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.018E+00	1.002E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.030E+00	1.004E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.003E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.710E+00	1.072E+00	1.007E+00	1.002E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.046E+00	1.008E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00	1.001E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Storage Time Correction Factors for Fish & Crustacea
Harvest Time = t - 1.92E-02 yr; Consumption Time = t yr

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			CFF(j,1,t)#								
Ra-226	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Ra-226	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
Th-230	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-238	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	U-234	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Th-230	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Ra-226	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00
U-238	Pb-210	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00	1.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
#Correction factor = (concentration in media at consumption time)/(concentration at harvest time).

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Root Uptake from Contaminated Soil (q=1)

Area Factor for Plant Foods [FA(3)] = 0.50

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	Depth Factor FD(i,1,t) (dimensionless)								
Pb-210	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
Ra-226	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
Th-230	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
U-234	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01
U-238	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01	6.6667E-01

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Foliar Uptake from Contaminated Dust (q=2)

Area Factor for Plant Foods [FA(3)] = 0.50

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	Depth Factor FD(i,2,t) (dimensionless)								
Pb-210	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Ra-226	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Th-230	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-234	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-238	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Ditch Irrigation (q=3)

Area Factor for Plant Foods [FA(3)] = 0.50

Nuclide (i)	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
	Depth Factor FD(i,3,t) (dimensionless)								
Pb-210	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Ra-226	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
Th-230	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-234	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00
U-238	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00	1.0000E+00

Area and Depth Factors for Plant (p=3), Meat (p=4), and Milk (p=5) Pathways
Overhead Irrigation (q=4)

Area Factor for Plant Foods [FA(3)] = 0.50

The Depth Factor Value
FD(i,p,q,t) = 1.0000E+00
is applicable for all radionuclides(i) and times(t).

Area and Depth Factors for Meat (p=4) and Milk (p=5) Pathways
Transfer from Livestock Water (q=5) and Soil (q=6) Intake

Area Factor for Meat and Milk [FA(p),p=4,5] = 0.50

The livestock water subpathway (q=5) and livestock soil intake subpathway (q=6)
occur only for the meat (p=4) and milk (p=5) pathways.

Area and Depth Factors for Meat (p=4) and Milk (p=5) Pathways
Transfer from Livestock Water (q=5) and Soil (q=6) Intake

Area Factor for Meat and Milk [FA(p),p=4,5] = 0.50

The livestock water subpathway (q=5) and livestock soil intake subpathway (q=6)
occur only for the meat (p=4) and milk (p=5) pathways.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Root Uptake from Contaminated Soil (q=1)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,1,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Foliar Uptake from Contaminated Dust (q=2)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Ditch Irrigation (q=3)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,3,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Plant Food Pathway (p=3)
Subpathway: Overhead Irrigation (q=4)

Parent (i)	Product (j)	DCF(j,3)*	ETF(j,3,4,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,1,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Ditch Irrigation (q=3)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,3,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Overhead Irrigation (q=4)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,4,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Meat Pathway (p=4)
Subpathway: Livestock Water (q=5)

Parent (i)	Product (j)	DCF(j,4)*	ETF(j,4,5,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,1,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,2,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Ditch Irrigation (q=3)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,3,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Overhead Irrigation (q=4)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,4,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Milk Pathway (p=5)
Subpathway: Livestock Water (q=5)

Parent (i)	Product (j)	DCF(j,5)*	ETF(j,5,5,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Fish Pathway (p=6)

Parent (i)	Product (j)	DCF(j,6)*	ETF(j,6,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose Conversion and Environmental Transport Factors for the Drinking Water Pathway (p=7)

Parent (i)	Product (j)	DCF(j,7)*	ETF(j,7,t) * SF(j,t) (g/yr) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Root Uptake from Contaminated Soil (q=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,1,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Foliar Uptake from Contaminated Dust (q=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Ditch Irrigation (q=3)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Subpathway: Overhead Irrigation (q=4)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,4,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Plant Foods (p=3)
Total for All Subpathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,1,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Ditch Irrigation (q=3)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Overhead Irrigation (q=4)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,4,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Subpathway: Livestock Water (q=5)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,5,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Meat (p=4)
Total for All Subpathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,4,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Fodder Root Uptake from Contaminated Soil (q=1)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,1,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Fodder Foliar Uptake from Contaminated Dust (q=2)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,2,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Ditch Irrigation (q=3)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,3,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Overhead Irrigation (q=4)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	DSR(j,5,4,t) (mrem/yr)/(pCi/g) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Subpathway: Livestock Water (q=5)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			DSR(j,5,5,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from Ingestion of Milk (p=5)
Total for All Subpathways
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			DSR(j,5,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from the Ingestion of Fish (p=6)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				DSR(j,6,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose/Source Ratios for Internal Radiation from the Ingestion of Drinking Water (p=7)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				DSR(j,7,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)			0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Plant/Air and Plant/Water Concentration Ratios

Mass loading [ASR(3)]: 1.000E-04 g/m**3
Area Factor for Mass Loading [FA(2)]: 1.693E-01

Nuclide (i)	FAR(i,3,2,1) m**3/g	FAR(i,3,2,2) m**3/g	FWR(i,3,3,1) L/g	FWR(i,3,3,2) L/g	FWR(i,3,4,1) L/g	FWR(i,3,4,2) L/g
Pb-210	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Ra-226	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
Th-230	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-234	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
U-238	5.4545E-02	2.6156E-01	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

FAR(i,p,q,k) is the plant/air concentration ratio for airborne contaminated dust, and FWR(i,p,q,k) is the plant/water concentration ratio. See groundwater displays for water/soil concentration ratios.

Plant/Soil Concentration Ratios, FSR(i,3,q,k,t)

Root Uptake (q=1) and Foliar Dust Deposition (q=2)
Nonleafy (k=1) and/or Leafy (k=2) Vegetables

Nuclide(i) Parent	Product	FSR(i,3,1,k)	FSR(i,3,2,1)	FSR(i,3,2,2)
Ra-226	Ra-226	4.0000E-02	9.2345E-07	4.4282E-06
Ra-226	Pb-210	1.0000E-02	9.2345E-07	4.4282E-06
Th-230	Th-230	1.0000E-03	9.2345E-07	4.4282E-06
Th-230	Ra-226	4.0000E-02	9.2345E-07	4.4282E-06
Th-230	Pb-210	1.0000E-02	9.2345E-07	4.4282E-06
U-238	U-238	2.5000E-03	9.2345E-07	4.4282E-06
U-238	U-234	2.5000E-03	9.2345E-07	4.4282E-06
U-238	Th-230	1.0000E-03	9.2345E-07	4.4282E-06
U-238	Ra-226	4.0000E-02	9.2345E-07	4.4282E-06
U-238	Pb-210	1.0000E-02	9.2345E-07	4.4282E-06

Plant/Soil Concentration Ratio, FSR(j,3,q,k,t)
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			FSR(j,3,3,k,t)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Plant/Soil Concentration Ratio, FSR(j,3,q,k,t)
Overhead Irrigation (q=4) and Nonleafy Vegetables (k=1)

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			FSR(j,3,4,1,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Plant/Soil Concentration Ratio, FSR(j,3,q,k,t)
Overhead Irrigation (q=4) and Leafy Vegetables (k=2)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	FSR(j,3,4,2,t) * SF(j,t) 1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Fodder, Milk/Fodder, Fodder/Air and Fodder/Water Concentration Ratios

FI(4,q): 68.0 kg/day FI(5,q): 55.0 kg/day q=1,2,3,4
FI(4,q): 50.0 L/day FI(5,q): 160.0 L/day q=5
FI(4,q): 0.5 kg/day FI(5,q):

Nuclide (i)	FQR(i,4) d/kg	FQR(i,5) d/kg	FAR(i,3,2,3) m**3/g	FWR(i,3,3,3) L/g	FWR(i,3,4,3) L/g
Pb-210	8.0000E-04	3.0000E-04	2.8659E-01	0.0000E+00	0.0000E+00
Ra-226	1.0000E-03	1.0000E-03	2.8659E-01	0.0000E+00	0.0000E+00
Th-230	1.0000E-04	5.0000E-06	2.8659E-01	0.0000E+00	0.0000E+00
U-234	3.4000E-04	6.0000E-04	2.8659E-01	0.0000E+00	0.0000E+00
U-238	3.4000E-04	6.0000E-04	2.8659E-01	0.0000E+00	0.0000E+00

FI(p,q) are the fodder (q=1,2,3,4), livestock water (q=5) and soil (q=6) intake rates; FQR(i,p) are the transfer coefficients from contaminated fodder of livestock water to meat (p=4) or milk (p=5). FAR(i,3,2,3) are the fodder/air concentration ratios, and FWR(i,3,3,3) and FWR(i,3,4,3) are the fodder/water concentration ratios for ditch and overhead irrigation, respectively.

Fodder/Soil Concentration Ratios, QSR(i,p,q,t), for Meat and Milk Pathways
Root Uptake (q=1) and Foliar Dust Deposition (q=2)

Nuclide(i) Parent	Product	QSR(i,p,1)	QSR(i,p,2)
Ra-226	Ra-226	4.0000E-02	4.8520E-06
Ra-226	Pb-210	1.0000E-02	4.8520E-06
Th-230	Th-230	1.0000E-03	4.8520E-06
Th-230	Ra-226	4.0000E-02	4.8520E-06
Th-230	Pb-210	1.0000E-02	4.8520E-06
U-238	U-238	2.5000E-03	4.8520E-06
U-238	U-234	2.5000E-03	4.8520E-06
U-238	Th-230	1.0000E-03	4.8520E-06
U-238	Ra-226	4.0000E-02	4.8520E-06
U-238	Pb-210	1.0000E-02	4.8520E-06

Fodder/Soil Concentration Ratio, QSR(j,p,q,t),for Meat and Milk Pathways
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction*	QSR(j,p,3,t) * SF(j,t) t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Fodder/Soil Concentration Ratio, QSR(j,p,q,t),for Meat and Milk Pathways
Overhead Irrigation (q=4)

Parent (i)	Product (j)	Branch Fraction*	t=	QSR(j,p,4,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Fodder/Soil Concentration Ratio, QSR(j,p,q,t),for Meat and Milk Pathways
Livestock Water (q=5)

Parent (i)	Product (j)	Branch Fraction*	t=	QSR(j,p,5,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Soil Concentration Ratios, FSR(i,4,q,t)
Root Uptake (q=1) and Foliar Dust Deposition (q=2)

Nuclide(i) Parent	Product	FSR(i,4,1)	FSR(i,4,2)
Ra-226	Ra-226	1.8133E-03	3.2993E-07
Ra-226	Pb-210	0.0000E+00	0.0000E+00
Th-230	Th-230	4.5333E-06	3.2993E-08
Th-230	Ra-226	0.0000E+00	0.0000E+00
Th-230	Pb-210	0.0000E+00	0.0000E+00
U-238	U-238	3.8533E-05	1.1218E-07
U-238	U-234	0.0000E+00	0.0000E+00
U-238	Th-230	0.0000E+00	0.0000E+00
U-238	Ra-226	0.0000E+00	0.0000E+00
U-238	Pb-210	0.0000E+00	0.0000E+00

Meat/Soil Concentration Ratio, FSR(j,4,q,t)
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction* t=	FSR(j,4,3,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Soil Concentration Ratio, FSR(j,4,q,t)
Overhead Irrigation (q=4)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,4,4,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Meat/Soil Concentration Ratio, FSR(j,4,q,t)
Livestock Water (q=5)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,4,5,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Milk/Soil Concentration Ratios, FSR(i,5,q,t)
Root Uptake (q=1) and Foliar Dust Deposition (q=2)

Nuclide(i) Parent	Product	FSR(i,5,1)	FSR(i,5,2)
Ra-226	Ra-226	1.4667E-03	2.6686E-07
Ra-226	Pb-210	0.0000E+00	0.0000E+00
Th-230	Th-230	1.8333E-07	1.3343E-09
Th-230	Ra-226	0.0000E+00	0.0000E+00
Th-230	Pb-210	0.0000E+00	0.0000E+00
U-238	U-238	5.5000E-05	1.6012E-07
U-238	U-234	0.0000E+00	0.0000E+00
U-238	Th-230	0.0000E+00	0.0000E+00
U-238	Ra-226	0.0000E+00	0.0000E+00
U-238	Pb-210	0.0000E+00	0.0000E+00

Milk/Soil Concentration Ratio, FSR(j,5,q,t)
Ditch Irrigation (q=3)

Parent (i)	Product (j)	Branch Fraction* t=	FSR(j,5,3,t) * SF(j,t) 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Milk/Soil Concentration Ratio, FSR(j,5,q,t)
Overhead Irrigation (q=4)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,5,4,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Milk/Soil Concentration Ratio, FSR(j,5,q,t)
Livestock Water (q=5)

Parent (i)	Product (j)	Branch Fraction*	t=	0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
				FSR(j,5,5,t) * SF(j,t)								
Ra-226	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

Dose/Source Ratios for Soil Ingestion Pathway (p=8)
Parent and Progeny Principal Radionuclide Contributions Indicated

Parent (i)	Product (j)	Branch Fraction*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			DSR(j,8,t) (mrem/yr)/(pCi/g)								
Ra-226	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	1.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	∑DSR(j)		0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

*Branch Fraction is the cumulative factor for the j't principal radionuclide daughter: CUMBRF(j) = BRF(1)*BRF(2)* ... BRF(j).
The DSR includes contributions from associated (half-life ≤ 0.5 yr) daughters.

Dose Conversion and Environmental Transport Factors for the Soil Ingestion Pathway (p=8)

Parent (i)	Product (j)	DCF(j,8)*	t= 0.000E+00	1.000E+00	1.000E+01	1.000E+02	3.000E+02	6.000E+02	8.000E+02	9.000E+02	1.000E+03
			ETF(j,8,t) (g/yr)								
Ra-226	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Ra-226	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
Th-230	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-238	2.690E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	U-234	2.830E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Th-230	5.480E-04	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Ra-226	1.330E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
U-238	Pb-210	7.270E-03	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

* - The dose conversion factor units are mrem/pCi.

EXHIBIT G

GAMMA LOG RESULTS
AND
ZONES OF MED-RELATED MATERIALS DELINEATED

EXHIBIT G

GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIALS DELINEATED

Exhibit G contains down-hole gamma measurement data from the 2001 Seaway investigation and identifies by depth below ground surface and elevation the suspected lenses of MED-related residues. These data were collected using a shielded 2-inch by 2-inch sodium iodide detector lowered down a PVC-lined borehole. Gamma measurements were collected at 6-inch intervals by positioning the detector to the designated depth below ground surface then integrating radiation "counts" over a one minute period. The following 15 pages present the compiled down-hole gamma measurements and depth/elevation information for all boreholes. Columns on each page are made up of the following information:

- The first column on each page lists the depth below ground surface starting from 0 (the surface) and continuing in 6-inch increments.
- The next and subsequent column on each page contain the borehole-specific elevation measurements (feet above sea level) and count rate results (counts per minute).
    - Result for individual boreholes are separated by a solid horizontal line for ease of reference.
    - Borehole-specific data are sorted in descending order by elevation (from highest distance above sea level down).
- Shaded intervals represent suspected lenses of MED-related materials.

Note that count rate results are listed as "0" if a measurement was not collected. For deep boreholes, measurement frequency was sometimes relaxed from every 6 inches to every 2 feet.

SEAWAY CORRELATION BORINGS
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-COR0000		SEA-COR0001		SEA-COR0002		SEA-COR0003	
Surface Elevation (Feet MSL):	656.79		639.78		636.41		635.75	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	656.79	5875	639.78	10395	636.41	5844	635.75	4721
6	656.29	9185	639.28	15419	635.91	8176	635.25	5649
12	655.79	10196	638.78	22392	635.41	11134	634.75	5435
18	655.29	9225	638.28	28466	634.91	8924	634.25	4485
24	654.79	8866	637.78	35002	634.41	7117	633.75	3207
30	654.29	10661	637.28	21091	633.91	7712	633.25	2846
36	653.79	10669	636.78	9475	633.41	7611	632.75	2687
42	653.29	9117	636.28	6474	632.91	4999	632.25	3026
48	652.79	8229	635.78	8363	632.41	3449	631.75	2354
54	652.29	7797	635.28	7805	631.91	2196	631.25	2194
60	651.79	7940	634.78	7160	631.41	1971	630.75	2270
66	651.29	6270	634.28	9030	630.91	2434	630.25	2297
72	650.79	5684	633.78	16409	630.41	3098	629.75	1832
78	650.29	4279	633.28	16452	629.91	4939	629.25	2150
84	649.79	3356	632.78	8953	629.41	3431	628.75	2812
90	649.29	2739	632.28	8495	628.91	2502	628.25	3262
96	648.79	2297	631.78	12245	628.41	2223	627.75	4263
102	648.29	2283	631.28	9394	627.91	2922	627.25	4515
108	647.79	2535	630.78	5199	627.41	4001	626.75	4356
114	647.29	3008	630.28	3601	626.91	4257	626.25	4034
120	646.79	3510	629.78	3182	626.41	4799	625.75	3656
126	646.29	0	629.28	2888	625.91	4232	625.25	2526
132			628.78	2886	625.41	4227	624.75	2150
138			628.28	4685	624.91	3908	624.25	3241
144			627.78	5703	624.41	4053	623.75	4159
150			627.28	4217	623.91	4590	623.25	4974
156			626.78	2268	623.41	4087	622.75	5657
162			626.28	1808	622.91	4257	622.25	7301
168			625.78	1670	622.41	4013	621.75	7017
174			625.28	1740	621.91	4498	621.25	5046
180			624.78	1941	621.41	4102	620.75	4420
186			624.28	2691	620.91	3563	620.25	5533
192			623.78	5149	620.41	0	619.75	6707
198			623.28	8307			619.25	6694
204			622.78	9191			618.75	6727
210			622.28	10972			618.25	6407
216			621.78	10873			617.75	5822
222			621.28	8357			617.25	4139
228			620.78	5322			616.75	3088
234			620.28	4314			616.25	3097
240			619.78	0			615.75	4013
246							615.25	4047
252							614.75	5675
258							614.25	6067
264							613.75	6489
270							613.25	8302
276							612.75	9974
282							612.25	10003
288							611.75	9975
294							611.25	0

SEAWAY AREA A
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARA1001		SEA-ARA1002		SEA-ARA1003	
Surface Elevation (Feet MSL):	642.26		639.42		634.20	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	642.26	5494	639.42	8113	634.2	6197
6	641.76	7574	638.92	10517	633.7	6996
12	641.26	8434	638.42	20337	633.2	7030
18	640.76	7218	637.92	27547	632.7	5732
24	640.26	7229	637.42	27569	632.2	4418
30	639.76	8233	636.92	15826	631.7	3656
36	639.26	7720	636.42	12415	631.2	2724
42	638.76	7091	635.92	12197	630.7	2890
48	638.26	6482	635.42	11384	630.2	2330
54	637.76	7650	634.92	9167	629.7	1880
60	637.26	6869	634.42	8115	629.2	2240
66	636.76	4050	633.92	7068	628.7	2831
72	636.26	2991	633.42	4965	628.2	3092
78	635.76	2806	632.92	3884	627.7	3787
84	635.26	3223	632.42	3059	627.2	4184
90	634.76	3690	631.92	2258	626.7	3238
96	634.26	5093	631.42	2521	626.2	2507
102	633.76	7406	630.92	3512	625.7	2055
108	633.26	9397	630.42	4316	625.2	1785
114	632.76	10939	629.92	5069	624.7	1819
120	632.26	8531	629.42	7025	624.2	2169
126	631.76	6769	628.92	10453	623.7	2844
132	631.26	5585	628.42	7353	623.2	2258
138	630.76	4348	627.92	5231	622.7	1820
144	630.26	2796	627.42	4600	622.2	1730
150	629.76	2231	626.92	3122	621.7	2018
156	629.26	2639	626.42	3996	621.2	2528
162	628.76	4031	625.92	3873	620.7	2834
168	628.26	6682	625.42	2536	620.2	3733
174	627.76	6296	624.92	2588	619.7	5762
180	627.26	4751	624.42	3975	619.2	6409
186	626.76	2498	623.92	8181	618.7	5570
192	626.26	2302	623.42	12779	618.2	4893
198	625.76	2603	622.92	15644	617.7	5508
204	625.26	3825	622.42	12849	617.2	4462
210	624.76	6989	621.92	8894	616.7	3408
216	624.26	9328	621.42	8525	616.2	4348
222	623.76	9217	620.92	7006	615.7	5269
228	623.26	8941	620.42	4868	615.2	4261
234	622.76	8882	619.92	5124	614.7	0
240	622.26	8046	619.42	7412		
246	621.76	0	618.92	8192		
252			618.42	9794		
258			617.92	9524		
264			617.42	9331		
270			616.92	8331		
276			616.42	5164		
282			615.92	0		
288						
294						
300						
306						
312						

SEAWAY AREA A
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARA1004		SEA-ARA2001		SEA-ARA2002	
Surface Elevation (Feet MSL):	642.70		636.24		624.35	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	642.7	30430	636.24	33851	624.35	40137
6	642.2	61120	635.74	62911	623.85	58482
12	641.7	76929	635.24	28516	623.35	26254
18	641.2	61571	634.74	13670	622.85	10233
24	640.7	59821	634.24	8470	622.35	7749
30	640.2	58111	633.74	9017	621.85	6373
36	639.7	40286	633.24	4836	621.35	5157
42	639.2	26448	632.74	3249	620.85	4047
48	638.7	18803	632.24	2296	620.35	3772
54	638.2	18517	631.74	2648	619.85	4378
60	637.7	20258	631.24	3054	619.35	6213
66	637.2	21120	630.74	2725	618.85	4765
72	636.7	20693	630.24	3491	618.35	3468
78	636.2	17140	629.74	3203	617.85	3184
84	635.7	11663	629.24	2939	617.35	3087
90	635.2	9738	628.74	2709	616.85	3647
96	634.7	7353	628.24	2793	616.35	4758
102	634.2	5385	627.74	3251	615.85	5441
108	633.7	4244	627.24	3222	615.35	7252
114	633.2	5505	626.74	3211	614.85	7158
120	632.7	7267	626.24	3037	614.35	6376
126	632.2	9734	625.74	0	613.85	5400
132	631.7	9591			613.35	6557
138	631.2	13059			612.85	7716
144	630.7	23213			612.35	8745
150	630.2	27624			611.85	9336
156	629.7	12165			611.35	12431
162	629.2	8449			610.85	16792
168	628.7	7534			610.35	18426
174	628.2	6517			609.85	13143
180	627.7	6456			609.35	10786
186	627.2	3574			608.85	10480
192	626.7	1966			608.35	11315
198	626.2	1366			607.85	11819
204	625.7	1322			607.35	10660
210	625.2	2589			606.85	9286
216	624.7	4655			606.35	8284
222	624.2	3817			605.85	8828
228	623.7	2316			605.35	0
234	623.2	0				
240						ASH
246						
252						
258						
264						
270						
276						
282						
288						
294						
300						
306						
312						

SEAWAY AREA B
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARB1001		SEA-ARB2001		SEA-ARB2002		SEA-ARB2003		SEA-ARB2004		SEA-ARB2005	
Surface Elevation (Feet MSL):	681.91		657.46		645.27		650.64		655.61		644.13	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	681.91	5131	657.46	4824	645.27	4920	650.64	5084	655.61	5028	644.13	7235
6	681.41	6825	656.96	5966	644.77	6362	650.14	6516	655.11	6301	643.63	8684
12	680.91	8430	656.46	5885	644.27	7953	649.64	6835	654.61	5926	643.13	9273
18	680.41	0	655.96	0	643.77	7627	649.14	0	654.11	0	642.63	8248
24	679.91	0	655.46	0	643.27	7237	648.64	0	653.61	0	642.13	6376
30	679.41	0	654.96	0	642.77	6493	648.14	0	653.11	0	641.63	5276
36	678.91	3110	654.46	2300	642.27	4954	647.64	3721	652.61	7366	641.13	5563
42	678.41	0	653.96	0	641.77	3719	647.14	0	652.11	0	640.63	4478
48	677.91	0	653.46	0	641.27	3996	646.64	0	651.61	0	640.13	3056
54	677.41	0	652.96	0	640.77	5513	646.14	0	651.11	0	639.63	3083
60	676.91	4988	652.46	5433	640.27	6130	645.64	4109	650.61	3065	639.13	3134
66	676.41	0	651.96	0	639.77	5959	645.14	0	650.11	0	638.63	3471
72	675.91	0	651.46	0	639.27	7130	644.64	0	649.61	0	638.13	2731
78	675.41	0	650.96	0	638.77	8621	644.14	0	649.11	0	637.63	3461
84	674.91	6586	650.46	2227	638.27	9917	643.64	3943	648.61	2078	637.13	4789
90	674.41	0	649.96	0	637.77	10160	643.14	0	648.11	0	636.63	6491
96	673.91	0	649.46	0	637.27	9379	642.64	0	647.61	0	636.13	6804
102	673.41	0	648.96	0	636.77	7887	642.14	0	647.11	0	635.63	7470
108	672.91	4234	648.46	4952	636.27	5687	641.64	1300	646.61	5116	635.13	7987
114	672.41	0	647.96	0	635.77	4180	641.14	0	646.11	0	634.63	8201
120	671.91	0	647.46	0	635.27	3482	640.64	0	645.61	0	634.13	9134
126	671.41	0	646.96	0	634.77	3480	640.14	0	645.11	0	633.63	8785
132	670.91	6159	646.46	4622	634.27	3650	639.64	3326	644.61	2354	633.13	7279
138	670.41	0	645.96	0	633.77	3477	639.14	0	644.11	0	632.63	5260
144	669.91	0	645.46	0	633.27	4782	638.64	0	643.61	0	632.13	5279
150	669.41	0	644.96	0	632.77	5396	638.14	0	643.11	0	631.63	6735
156	668.91	8515	644.46	6021	632.27	4143	637.64	9449	642.61	2333	631.13	6678
162	668.41	0	643.96	0	631.77	3545	637.14	13110	642.11	0	630.63	6293
168	667.91	0	643.46	10278	631.27	4372	636.64	22627	641.61	0	630.13	7704
174	667.41	0	642.96	11732	630.77	5725	636.14	18983	641.11	0	629.63	9457
180	666.91	6987	642.46	11293	630.27	5555	635.64	7948	640.61	4732	629.13	9062
186	666.41	0	641.96	11130	629.77	5878	635.14	0	640.11	0	628.63	8056
192	665.91	0	641.46	11223	629.27	7573	634.64	0	639.61	0	628.13	8167
198	665.41	0	640.96	11051	628.77	8792	634.14	0	639.11	0	627.63	7767
204	664.91	2169	640.46	11022	628.27	7450	633.64	3753	638.61	2622	627.13	6689
210	664.41	0	639.96	13777	627.77	4283	633.14	0	638.11	0	626.63	3785
216	663.91	0	639.46	12904	627.27	2672	632.64	0	637.61	6049	626.13	2092
222	663.41	0	638.96	10598	626.77	1892	632.14	0	637.11	8611	625.63	1976
228	662.91	3786	638.46	9970	626.27	1511	631.64	6049	636.61	11854	625.13	2258
234	662.41	0	637.96	9722	625.77	1244	631.14	0	636.11	21165	624.63	3134
240	661.91	0	637.46	13839	625.27	1253	630.64	0	635.61	33866	624.13	4996
246	661.41	0	636.96	28045	624.77	1602	630.14	0	635.11	14134	623.63	5123
252	660.91	6915	636.46	43058	624.27	2074	629.64	5512	634.61	8555	623.13	4699
258	660.41	0	635.96	42331	623.77	3105	629.14	0	634.11	10099	622.63	3425
264	659.91	0	635.46	22195	623.27	5500	628.64	0	633.61	8997	622.13	3180
270	659.41	0	634.96	18018	622.77	9002	628.14	0	633.11	6526	621.63	3249
276	658.91	1999	634.46	20924	622.27	8968	627.64	7497	632.61	6339	621.13	3170
282	658.41	0	633.96	14999	621.77	7741	627.14	0	632.11	5591	620.63	3640
288	657.91	0	633.46	10668	621.27	5898	626.64	0	631.61	4232	620.13	3504
294	657.41	0	632.96	9713	620.77	7036	626.14	0	631.11	4985	619.63	4819
300	656.91	7577	632.46	11915	620.27	9011	625.64	3997	630.61	7185	619.13	6127
306	656.41	0	631.96	27019	619.77	9954	625.14	4936	630.11	7626	618.63	5134
312	655.91	0	631.46	14028	619.27	9363	624.64	4784	629.61	8374	618.13	3892
318	655.41	0	630.96	6127	618.77	8675	624.14	3772	629.11	7163	617.63	4045
324	654.91	7309	630.46	4280	618.27	8006	623.64	2762	628.61	4134	617.13	3912
330	654.41	0	629.96	5176	617.77	6012	623.14	3148	628.11	2973	616.63	3466
336	653.91	0	629.46	5637	617.27	3786	622.64	3059	627.61	3925	616.13	3213
342	653.41	0	628.96	4844	616.77	3079	622.14	1912	627.11	5633	615.63	2967
348	652.91	8102	628.46	4918	616.27	3010	621.64	2356	626.61	6458	615.13	2722
354	652.41	0	627.96	6148	615.77	3059	621.14	4195	626.11	5317	614.63	2781
360	651.91	0	627.46	5969	615.27	3846	620.64	6025	625.61	4636	614.13	3001
366	651.41	0	626.96	4373	614.77	4575	620.14	5470	625.11	4747	613.63	2261
372	650.91	8883	626.46	4208	614.27	4893	619.64	4891	624.61	4040	613.13	0
378	650.41	0	625.96	3632	613.77	6481	619.14	7602	624.11	2238		
384	649.91	0	625.46	3828	613.27	8791	618.64	7992	623.61	2029		
390	649.41	0	624.96	5425	612.77	9714	618.14	7377	623.11	2484		
396	648.91	1780	624.46	5659	612.27	9830	617.64	5288	622.61	2590		
402	648.41	0	623.96	4267	611.77	9414	617.14	4182	622.11	3197		
408	647.91	0	623.46	4331	611.27	9026	616.64	3905	621.61	4332		
414	647.41	0	622.96	5207	610.77	8644	616.14	3842	621.11	4038		
420	646.91	5130	622.46	6127	610.27	6740	615.64	4610	620.61	3964		
426	646.41	0	621.96	6122	609.77	0	615.14	7203	620.11	3770		
432	645.91	0	621.46	5812			614.64	10446	619.61	3409		
438	645.41	0	620.96	4765			614.14	11531	619.11	3034		
444	644.91	2700	620.46	5007			613.64	9625	618.61	5477		
450	644.41	0	619.96	6623			613.14	8118	618.11	7069		
456	643.91	0	619.46	7986			612.64	8328	617.61	8037		
462	643.41	0	618.96	10000			612.14	9476	617.11	5881		
468	642.91	1478	618.46	0			611.64	9948	616.61	3773		
474	642.41	0					611.14	10806	616.11	3151		
480	641.91	0					610.64	9958	615.61	0		
486	641.41	0					610.14	0				
492	640.91	1929										
498	640.41	0										

SEAWAY AREA B
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARB1001		SEA-ARB2001		SEA-ARB2002		SEA-ARB2003		SEA-ARB2004		SEA-ARB2005	
Surface Elevation (Feet MSL):	681.91		657.46		645.27		650.64		655.61		644.13	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
504	639.91	0										
510	639.41	0										
516	638.91	3855										
522	638.41	0										
528	637.91	0										
534	637.41	8825										
540	636.91	9082										
546	636.41	11743										
552	635.91	10162										
558	635.41	6348										
564	634.91	0										
570	634.41	0										
576	633.91	0										
582	633.41	0										
588	632.91	4703										
594	632.41	0										
600	631.91	0										
606	631.41	0										
612	630.91	6058										
618	630.41	0										
624	629.91	0										
630	629.41	0										
636	628.91	4593										
642	628.41	0										
648	627.91	0										
654	627.41	0										
660	626.91	7759										
666	626.41	0										
672	625.91	0										
678	625.41	0										
684	624.91	4179										
690	624.41	0										
696	623.91	0										
702	623.41	0										
708	622.91	4285										
714	622.41	0										
720												
726												
732												
738												
744												
750												
756												
762												
768												
774												
780												
786												
792												
798												
804												
810												
816												
822												
828												
834												
840												
846												
852												
858												
864												
870												
876												
882												
888												
894												
900												
906												
912												
918												
924												
930												
936												
942												
948												
954												

SEAWAY AREA B
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARB2006		SEA-ARB2007		SEA-ARB2008	
Surface Elevation (Feet MSL):	640.39		659.84		697.36	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	640.39	5017	659.84	6402	697.36	5216
6	639.89	6458	659.34	8679	696.86	5878
12	639.39	7533	658.84	8101	696.36	4064
18	638.89	8285	658.34	0	695.86	0
24	638.39	9455	657.84	0	695.36	0
30	637.89	12780	657.34	0	694.86	0
36	637.39	9670	656.84	4162	694.36	3274
42	636.89	5473	656.34	0	693.86	0
48	636.39	4818	655.84	0	693.36	0
54	635.89	4350	655.34	0	692.86	0
60	635.39	3459	654.84	1636	692.36	4827
66	634.89	3382	654.34	0	691.86	0
72	634.39	3760	653.84	0	691.36	0
78	633.89	5344	653.34	0	690.86	0
84	633.39	5441	652.84	2451	690.36	1800
90	632.89	5364	652.34	0	689.86	0
96	632.39	3961	651.84	0	689.36	0
102	631.89	4866	651.34	0	688.86	0
108	631.39	4949	650.84	5480	688.36	1966
114	630.89	5623	650.34	0	687.86	0
120	630.39	7671	649.84	0	687.36	0
126	629.89	7610	649.34	0	686.86	0
132	629.39	7608	648.84	4454	686.36	6359
138	628.89	6162	648.34	0	685.86	0
144	628.39	3984	647.84	0	685.36	0
150	627.89	2753	647.34	0	684.86	0
156	627.39	2414	646.84	2195	684.36	6329
162	626.89	3411	646.34	0	683.86	0
168	626.39	4128	645.84	0	683.36	0
174	625.89	4826	645.34	0	682.86	0
180	625.39	5751	644.84	2622	682.36	7291
186	624.89	6035	644.34	0	681.86	0
192	624.39	7335	643.84	0	681.36	0
198	623.89	7134	643.34	0	680.86	0
204	623.39	7725	642.84	3343	680.36	6163
210	622.89	7239	642.34	0	679.86	0
216	622.39	5695	641.84	0	679.36	0
222	621.89	5898	641.34	0	678.86	0
228	621.39	5907	640.84	2995	678.36	5061
234	620.89	5569	640.34	0	677.86	0
240	620.39	4766	639.84	0	677.36	0
246	619.89	5451	639.34	0	676.86	0
252	619.39	5769	638.84	5293	676.36	4071
258	618.89	5525	638.34	0	675.86	0
264	618.39	5245	637.84	0	675.36	0
270	617.89	5000	637.34	0	674.86	0
276	617.39	4870	636.84	5817	674.36	4342
282	616.89	4433	636.34	0	673.86	0
288	616.39	4158	635.84	0	673.36	0
294	615.89	3811	635.34	0	672.86	0
300	615.39	4301	634.84	6372	672.36	5291
306	614.89	5906	634.34	0	671.86	0
312	614.39	6772	633.84	0	671.36	0
318	613.89	5909	633.34	0	670.86	0
324	613.39	5202	632.84	5988	670.36	2054
330	612.89	4696	632.34	0	669.86	0
336	612.39	3926	631.84	0	669.36	0
342	611.89	3170	631.34	0	668.86	0
348	611.39	2869	630.84	5464	668.36	6387
354	610.89	0	630.34	0	667.86	0
360			629.84	0	667.36	0
366			629.34	2924	666.86	0
372			628.84	2649	666.36	2020
378			628.34	3334	665.86	0
384			627.84	4422	665.36	0
390			627.34	4531	664.86	0
396			626.84	4873	664.36	2016
402			626.34	4294	663.86	0
408			625.84	3547	663.36	0
414			625.34	4691	662.86	0
420			624.84	4953	662.36	3506
426			624.34	4245	661.86	0
432			623.84	3437	661.36	0
438			623.34	4012	660.86	0
444			622.84	5002	660.36	3150
450			622.34	3733	659.86	0
456			621.84	4500	659.36	0
462			621.34	6810	658.86	0
468			620.84	8346	658.36	4076
474			620.34	8506	657.86	0
480			619.84	7879	657.36	0
486			619.34	6516	656.86	0
492			618.84	6912	656.36	3916
498			618.34	6710	655.86	0

SEAWAY AREA B
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARB2006		SEA-ARB2007		SEA-ARB2008	
Surface Elevation (Feet MSL):	640.39		659.84		697.36	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
504			617.84	6398	655.36	0
510			617.34	7069	654.86	0
516			616.84	6175	654.36	3443
522			616.34	4725	653.86	0
528			615.84	3645	653.36	0
534			615.34	3995	652.86	0
540			614.84	0	652.36	3700
546					651.86	0
552					651.36	0
558					650.86	0
564					650.36	5694
570					649.86	0
576					649.36	0
582					648.86	0
588					648.36	1960
594					647.86	0
600					647.36	0
606					646.86	0
612					646.36	3529
618					645.86	0
624					645.36	0
630					644.86	0
636					644.36	3626
642					643.86	0
648					643.36	0
654					642.86	0
660					642.36	2329
666					641.86	0
672					641.36	0
678					640.86	0
684					640.36	4658
690					639.86	0
696					639.36	0
702					638.86	3749
708					638.36	0
714					637.86	0
720					637.36	5764
726					636.86	6136
732					636.36	7023
738					635.86	7428
744					635.36	6431
750					634.86	5799
756					634.36	5005
762					633.86	5186
768					633.36	5786
774					632.86	5647
780					632.36	5945
786					631.86	5655
792					631.36	5067
798					630.86	4869
804					630.36	5608
810					629.86	5652
816					629.36	6322
822					628.86	7414
828					628.36	7130
834					627.86	5954
840					627.36	4463
846					626.86	4297
852					626.36	4775
858					625.86	6123
864					625.36	7381
870					624.86	7943
876					624.36	8262
882					623.86	8163
888					623.36	9009
894					622.86	8796
900					622.36	9388
906					621.86	9467
912					621.36	9261
918					620.86	9074
924					620.36	8755
930					619.86	9078
936					619.36	10253
942					618.86	8940
948					618.36	7324
954					617.86	5951

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC1001		SEA-ARC1002		SEA-ARC1003		SEA-ARC1005		SEA-ARC1006		SEA-ARC1008	
Surface Elevation (Feet MSL):	636.26		639.13		641.48		662.17		688.89		637.57	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	636.26	6404	639.13	5449	641.48	4759	662.17	5062	688.89	4870	637.57	5211
6	635.76	9298	638.63	7072	640.98	5263	661.67	5585	688.39	5663	637.07	7908
12	635.26	9825	638.13	8715	640.48	5616	661.17	5535	687.89	5244	636.57	9348
18	634.76	8699	637.63	8496	639.98	5822	660.67	0	687.39	0	636.07	8602
24	634.26	8684	637.13	8204	639.48	6738	660.17	0	686.89	0	635.57	7789
30	633.76	10313	636.63	6740	638.98	6739	659.67	0	686.39	0	635.07	9070
36	633.26	17140	636.13	8390	638.48	4508	659.17	2304	685.89	4640	634.57	17294
42	632.76	44306	635.63	7709	637.98	2518	658.67	0	685.39	0	634.07	56716
48	632.26	64524	635.13	5915	637.48	1590	658.17	0	684.89	0	633.57	73837
54	631.76	40581	634.63	7157	636.98	1344	657.67	0	684.39	0	633.07	37869
60	631.26	23506	634.13	13869	636.48	1895	657.17	5510	683.89	6854	632.57	16250
66	630.76	8707	633.63	39420	635.98	2120	656.67	0	683.39	0	632.07	8117
72	630.26	5128	633.13	74459	635.48	3414	656.17	0	682.89	0	631.57	5389
78	629.76	5260	632.63	75621	634.98	5827	655.67	0	682.39	0	631.07	6088
84	629.26	4305	632.13	62271	634.48	7314	655.17	8402	681.89	2337	630.57	5329
90	628.76	5119	631.63	29033	633.98	9213	654.67	0	681.39	0	630.07	5000
96	628.26	7036	631.13	9961	633.48	20411	654.17	0	680.89	0	629.57	7490
102	627.76	9461	630.63	6723	632.98	49712	653.67	0	680.39	0	629.07	6233
108	627.26	7844	630.13	7013	632.48	58477	653.17	6025	679.89	3234	628.57	4410
114	626.76	4192	629.63	4555	631.98	23350	652.67	0	679.39	0	628.07	3379
120	626.26	2947	629.13	5056	631.48	10615	652.17	0	678.89	0	627.57	2746
126	625.76	0	628.63	7091	630.98	6374	651.67	0	678.39	0	627.07	1936
132			628.13	8173	630.48	4669	651.17	4425	677.89	3713	626.57	1855
138			627.63	5710	629.98	5246	650.67	0	677.39	0	626.07	1949
144			627.13	2787	629.48	4782	650.17	0	676.89	0	625.57	2080
150			626.63	2377	628.98	3903	649.67	0	676.39	0	625.07	2537
156			626.13	2615	628.48	2754	649.17	3320	675.89	2914	624.57	2666
162			625.63	0	627.98	2712	648.67	0	675.39	0	624.07	2357
168					627.48	3155	648.17	0	674.89	0	623.57	2882
174					626.98	2631	647.67	0	674.39	0	623.07	4143
180					626.48	2225	647.17	5911	673.89	4106	622.57	0
186					625.98	1698	646.67	0	673.39	0		
192					625.48	1922	646.17	0	672.89	0		
198					624.98	2148	645.67	0	672.39	0		
204					624.48	0	645.17	5429	671.89	5866		
210							644.67	0	671.39	0		
216							644.17	0	670.89	0		
222							643.67	0	670.39	0		
228							643.17	5551	669.89	1946		
234							642.67	0	669.39	0		
240							642.17	4870	668.89	0		
246							641.67	5136	668.39	0		
252							641.17	4836	667.89	6182		
258							640.67	5215	667.39	0		
264							640.17	6689	666.89	0		
270							639.67	7650	666.39	0		
276							639.17	5843	665.89	2957		
282							638.67	4005	665.39	0		
288							638.17	2824	664.89	0		
294							637.67	2510	664.39	0		
300							637.17	3097	663.89	3147		
306							636.67	3433	663.39	0		
312							636.17	3296	662.89	0		
318							635.67	3267	662.39	0		
324							635.17	3218	661.89	5604		
330							634.67	3382	661.39	0		
336							634.17	3650	660.89	0		
342							633.67	3681	660.39	0		
348							633.17	3883	659.89	1533		
354							632.67	4103	659.39	0		
360							632.17	3443	658.89	0		
366							631.67	2971	658.39	0		
372							631.17	3073	657.89	3592		
378							630.67	3013	657.39	0		
384							630.17	3450	656.89	0		
390							629.67	5923	656.39	0		
396							629.17	8944	655.89	1969		
402							628.67	9725	655.39	0		
408							628.17	15307	654.89	0		
414							627.67	12150	654.39	0		
420							627.17	7957	653.89	3405		
426							626.67	0	653.39	0		
432									652.89	0		
438									652.39	0		
444									651.89	4563		
450									651.39	0		
456									650.89	0		
462									650.39	0		
468									649.89	8787		
474									649.39	0		
480									648.89	0		
486									648.39	0		

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC1001		SEA-ARC1002		SEA-ARC1003		SEA-ARC1005		SEA-ARC1006		SEA-ARC1008	
Surface Elevation (Feet MSL):	636.26		639.13		641.48		662.17		688.89		637.57	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
492									647.89	4562		
498									647.39	0		
504									646.89	0		
510									646.39	0		
516									645.89	2458		
522									645.39	0		
528									644.89	0		
534									644.39	0		
540									643.89	1724		
546									643.39	0		
552									642.89	0		
558									642.39	0		
564									641.89	1786		
570									641.39	0		
576									640.89	0		
582									640.39	0		
588									639.89	3987		
594									639.39	0		
600									638.89	0		
606									638.39	0		
612									637.89	0		
618									637.39	0		
624									636.89	0		
630									636.39	0		
636									635.89	0		
642									635.39	0		
648									634.89	0		
654									634.39	0		
660									633.89	0		
666									633.39	0		
672									632.89	0		
678									632.39	0		
684									631.89	0		
690									631.39	0		
696									630.89	0		
702									630.39	0		
708									629.89	0		
714									629.39	0		
720									628.89	0		
726									628.39	8689		
732									627.89	10148		
738									627.39	11796		
744									626.89	17791		
750									626.39	22361		
756									625.89	33228		
762									625.39	26948		
768									624.89	16801		
774									624.39	11634		
780									623.89	8638		
786									623.39	7721		
792									622.89	6985		
798									622.39	6106		
804									621.89	8397		
810									621.39	9123		
816									620.89	7043		
822									620.39	5370		
828									619.89	4194		
834									619.39	3855		
840									618.89	4905		
846									618.39	6559		
852									617.89	8081		
858									617.39	6034		
864									616.89	4180		
870									616.39	3251		
876									615.89	3096		
882									615.39	3222		
888									614.89	3922		
894									614.39	7143		
900									613.89	7848		
906									613.39	6597		
912									612.89	7038		
918									612.39	10325		
924									611.89	11636		
930									611.39	11315		
936									610.89	10484		
942									610.39	10306		
948									609.89	0		

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC2001		SEA-ARC2002		SEA-ARC2003		SEA-ARC2004		SEA-ARC2005		SEA-ARC2006	
Surface Elevation (Feet MSL):	651.73		659.96		663.42		656.84		659.91		659.90	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	651.73	5939	659.96	5258	663.42	4985	656.84	5623	659.91	5604	659.9	5731
6	651.23	8526	659.46	7635	662.92	6422	656.34	0	659.41	7708	659.4	7735
12	650.73	10078	658.96	9145	662.42	7549	655.84	10179	658.91	9320	658.9	9415
18	650.23	9101	658.46	9459	661.92	7594	655.34	0	658.41	0	658.4	0
24	649.73	8114	657.96	8731	661.42	7265	654.84	9743	657.91	9298	657.9	0
30	649.23	7737	657.46	7730	660.92	6798	654.34	10399	657.41	0	657.4	0
36	648.73	8364	656.96	8383	660.42	6053	653.84	11879	656.91	0	656.9	10340
42	648.23	8518	656.46	8754	659.92	6349	653.34	12797	656.41	0	656.4	0
48	647.73	8036	655.96	8355	659.42	6968	652.84	11586	655.91	10503	655.9	0
54	647.23	7869	655.46	8817	658.92	6860	652.34	10403	655.41	0	655.4	0
60	646.73	8250	654.96	9124	658.42	7536	651.84	0	654.91	0	654.9	7812
66	646.23	7424	654.46	8964	657.92	7999	651.34	9689	654.41	0	654.4	0
72	645.73	6040	653.96	9188	657.42	8085	650.84	9711	653.91	9488	653.9	0
78	645.23	5847	653.46	9230	656.92	9040	650.34	9108	653.41	0	653.4	0
84	644.73	6684	652.96	9221	656.42	8926	649.84	0	652.91	0	652.9	6482
90	644.23	4936	652.46	9218	655.92	8840	649.34	0	652.41	0	652.4	0
96	643.73	4314	651.96	9401	655.42	9065	648.84	5253	651.91	6501	651.9	0
102	643.23	4151	651.46	9917	654.92	8716	648.34	0	651.41	0	651.4	0
108	642.73	4531	650.96	10265	654.42	8090	647.84	0	650.91	0	650.9	2882
114	642.23	4129	650.46	9841	653.92	7118	647.34	0	650.41	0	650.4	0
120	641.73	3516	649.96	9878	653.42	7667	646.84	7260	649.91	4792	649.9	0
126	641.23	2803	649.46	9307	652.92	9207	646.34	0	649.41	0	649.4	0
132	640.73	2677	648.96	7695	652.42	9921	645.84	0	648.91	0	648.9	2149
138	640.23	3125	648.46	6138	651.92	10575	645.34	0	648.41	0	648.4	0
144	639.73	3918	647.96	4481	651.42	9459	644.84	7479	647.91	2386	647.9	0
150	639.23	4704	647.46	4208	650.92	8693	644.34	0	647.41	0	647.4	0
156	638.73	6166	646.96	3558	650.42	7273	643.84	0	646.91	0	646.9	2969
162	638.23	7057	646.46	2852	649.92	6441	643.34	0	646.41	0	646.4	0
168	637.73	5079	645.96	3641	649.42	5583	642.84	2019	645.91	5168	645.9	0
174	637.23	3662	645.46	7806	648.92	4277	642.34	0	645.41	0	645.4	0
180	636.73	2904	644.96	8627	648.42	3793	641.84	0	644.91	0	644.9	2106
186	636.23	2683	644.46	10974	647.92	3707	641.34	0	644.41	0	644.4	0
192	635.73	2822	643.96	7606	647.42	4191	640.84	1985	643.91	3863	643.9	0
198	635.23	3213	643.46	5996	646.92	4243	640.34	0	643.41	0	643.4	0
204	634.73	3914	642.96	5008	646.42	6047	639.84	0	642.91	0	642.9	1364
210	634.23	6292	642.46	4544	645.92	8375	639.34	0	642.41	0	642.4	0
216	633.73	10708	641.96	4468	645.42	8868	638.84	2292	641.91	1892	641.9	0
222	633.23	19834	641.46	4410	644.92	7587	638.34	0	641.41	0	641.4	0
228	632.73	33771	640.96	4435	644.42	0	637.84	0	640.91	0	640.9	2055
234	632.23	17112	640.46	4116	643.92	6965	637.34	0	640.41	0	640.4	0
240	631.73	15712	639.96	3656	643.42	7117	636.84	4580	639.91	1431	639.9	0
246	631.23	17762	639.46	3165	642.92	10786	636.34	6799	639.41	0	639.4	0
252	630.73	9366	638.96	2520	642.42	13817	635.84	10123	638.91	0	638.9	3655
258	630.23	6723	638.46	1716	641.92	9051	635.34	11968	638.41	0	638.4	0
264	629.73	5685	637.96	1564	641.42	8786	634.84	17830	637.91	3418	637.9	6809
270	629.23	6718	637.46	1627	640.92	4850	634.34	29368	637.41	0	637.4	10015
276	628.73	5806	636.96	1623	640.42	4243	633.84	32941	636.91	0	636.9	22212
282	628.23	3995	636.46	1549	639.92	0	633.34	20507	636.41	9245	636.4	53432
288	627.73	3053	635.96	1863	639.42	0	632.84	16446	635.91	10181	635.9	49854
294	627.23	2622	635.46	2618	638.92	0	632.34	19711	635.41	416	635.4	20269
300	626.73	2236	634.96	5021	638.42	1414	631.84	24168	634.91	4154	634.9	12500
306	626.23	2476	634.46	6247	637.92	0	631.34	16899	634.41	11406	634.4	12740
312	625.73	3314	633.96	6461	637.42	0	630.84	7899	633.91	17776	633.9	15604
318	625.23	4078	633.46	7397	636.92	0	630.34	5050	633.41	38853	633.4	13649
324	624.73	3559	632.96	8323	636.42	3556	629.84	5454	632.91	78344	632.9	8843
330	624.23	3265	632.46	10367	635.92	5119	629.34	7393	632.41	59766	632.4	7396
336	623.73	3436	631.96	19820	635.42	4975	628.84	5815	631.91	34329	631.9	5896
342	623.23	3544	631.46	37891	634.92	4709	628.34	3770	631.41	30393	631.4	3901
348	622.73	2308	630.96	48080	634.42	5984	627.84	3408	630.91	15902	630.9	3705
354	622.23	2650	630.46	29177	633.92	7422	627.34	3755	630.41	7057	630.4	4925
360	621.73	2613	629.96	14350	633.42	6960	626.84	4040	629.91	5305	629.9	6998
366	621.23	3233	629.46	7400	632.92	7210	626.34	3478	629.41	6030	629.4	7996
372	620.73	2845	628.96	5480	632.42	7411	625.84	3539	628.91	6582	628.9	6924
378	620.23	2337	628.46	5838	631.92	8484	625.34	4328	628.41	5039	628.4	9019
384	619.73	3056	627.96	4574	631.42	11788	624.84	4482	627.91	4118	627.9	8394
390	619.23	3199	627.46	3525	630.92	9558	624.34	5499	627.41	3345	627.4	6028
396	618.73	4539	626.96	3372	630.42	7448	623.84	5886	626.91	2996	626.9	5565
402	618.23	6731	626.46	2891	629.92	7259	623.34	4853	626.41	3418	626.4	4832
408	617.73	6373	625.96	3503	629.42	8802	622.84	3610	625.91	4539	625.9	4773
414	617.23	5454	625.46	4400	628.92	9107	622.34	4004	625.41	6122	625.4	4604
420	616.73	0	624.96	3802	628.42	5068	621.84	4769	624.91	7334	624.9	3819
426			624.46	2967	627.92	3053	621.34	3013	624.41	7157	624.4	4348
432			623.96	2326	627.42	2857	620.84	3163	623.91	6671	623.9	3768
438			623.46	2150	626.92	3233	620.34	0	623.41	5924	623.4	3457
444			622.96	0	626.42	3705			622.91	4603	622.9	2601
450					625.92	4370			622.41	3307	622.4	2365
456					625.42	4625			621.91	2989	621.9	2943
462					624.92	4431			621.41	3298	621.4	3471
468					624.42	4277			620.91	4237	620.9	3987
474					623.92	3023			620.41	5417	620.4	4090
480					623.42	1885			619.91	4918	619.9	4482
486					622.92	1792			619.41	0	619.4	5095

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC2001		SEA-ARC2002		SEA-ARC2003		SEA-ARC2004		SEA-ARC2005		SEA-ARC2006	
Surface Elevation (Feet MSL):	651.73		659.96		663.42		656.84		659.91		659.90	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
492					622.42	1760					618.9	5332
498					621.92	2124					618.4	5834
504					621.42	0					617.9	6419
510											617.4	0
516												
522												
528												
534												
540												
546												
552												
558												
564												
570												
576												
582												
588												
594												
600												
606												
612												
618												
624												
630												
636												
642												
648												
654												
660												
666												
672												
678												
684												
690												
696												
702												
708												
714												
720												
726												
732												
738												
744												
750												
756												
762												
768												
774												
780												
786												
792												
798												
804												
810												
816												
822												
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864												
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888												
894												
900												
906												
912												
918												
924												
930												
936												
942												
948												

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC2007		SEA-ARC2008		SEA-ARC2009		SEA-ARC2010		SEA-ARC2011		SEA-ARC2012	
Surface Elevation (Feet MSL):	658.49		662.58		665.90		666.13		665.77		690.05	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	658.49	5419	662.58	6891	665.9	6904	666.13	5309	665.77	5769	690.05	3984
6	657.99	6226	662.08	8049	665.4	8709	665.63	7968	665.27	9116	689.55	4364
12	657.49	7157	661.58	8514	664.9	10407	665.13	10133	664.77	10407	689.05	4574
18	656.99	0	661.08	8914	664.4	0	664.63	0	664.27	0	688.55	0
24	656.49	0	660.58	8987	663.9	0	664.13	0	663.77	0	688.05	0
30	655.99	0	660.08	8147	663.4	0	663.63	0	663.27	0	687.55	0
36	655.49	8586	659.58	5672	662.9	8087	663.13	10657	662.77	11031	687.05	3544
42	654.99	0	659.08	4682	662.4	0	662.63	0	662.27	0	686.55	0
48	654.49	0	658.58	5197	661.9	0	662.13	0	661.77	0	686.05	0
54	653.99	0	658.08	5728	661.4	0	661.63	0	661.27	0	685.55	0
60	653.49	4601	657.58	4762	660.9	7539	661.13	8685	660.77	8504	685.05	7188
66	652.99	0	657.08	3058	660.4	0	660.63	0	660.27	0	684.55	0
72	652.49	0	656.58	2239	659.9	0	660.13	0	659.77	0	684.05	0
78	651.99	0	656.08	2332	659.4	0	659.63	0	659.27	0	683.55	0
84	651.49	3351	655.58	3024	658.9	3874	659.13	9012	658.77	3842	683.05	2125
90	650.99	0	655.08	3540	658.4	0	658.63	0	658.27	0	682.55	0
96	650.49	0	654.58	4409	657.9	0	658.13	0	657.77	0	682.05	0
102	649.99	0	654.08	4903	657.4	0	657.63	0	657.27	0	681.55	0
108	649.49	3208	653.58	5324	656.9	1916	657.13	8646	656.77	3787	681.05	2247
114	648.99	0	653.08	5514	656.4	0	656.63	0	656.27	0	680.55	0
120	648.49	0	652.58	4160	655.9	0	656.13	0	655.77	0	680.05	0
126	647.99	0	652.08	4651	655.4	0	655.63	0	655.27	0	679.55	0
132	647.49	5928	651.58	6168	654.9	2481	655.13	7333	654.77	5885	679.05	4041
138	646.99	0	651.08	5836	654.4	0	654.63	0	654.27	0	678.55	0
144	646.49	0	650.58	4547	653.9	0	654.13	0	653.77	0	678.05	0
150	645.99	0	650.08	2826	653.4	0	653.63	0	653.27	0	677.55	0
156	645.49	1928	649.58	2356	652.9	6762	653.13	6013	652.77	2356	677.05	6290
162	644.99	0	649.08	2167	652.4	0	652.63	0	652.27	0	676.55	0
168	644.49	0	648.58	2486	651.9	0	652.13	0	651.77	0	676.05	0
174	643.99	0	648.08	3284	651.4	0	651.63	0	651.27	0	675.55	0
180	643.49	2036	647.58	4357	650.9	4452	651.13	1957	650.77	2646	675.05	3215
186	642.99	0	647.08	5421	650.4	0	650.63	0	650.27	0	674.55	0
192	642.49	0	646.58	5842	649.9	0	650.13	0	649.77	0	674.05	0
198	641.99	0	646.08	6075	649.4	10737	649.63	0	649.27	0	673.55	0
204	641.49	2411	645.58	6818	648.9	10371	649.13	2683	648.77	2462	673.05	5818
210	640.99	4318	645.08	6777	648.4	0	648.63	0	648.27	0	672.55	0
216	640.49	7642	644.58	5412	647.9	0	648.13	0	647.77	0	672.05	0
222	639.99	12304	644.08	4866	647.4	0	647.63	9709	647.27	0	671.55	0
228	639.49	14249	643.58	4453	646.9	3992	647.13	10030	646.77	4653	671.05	8318
234	638.99	16481	643.08	4322	646.4	0	646.63	8521	646.27	0	670.55	0
240	638.49	22881	642.58	4429	645.9	0	646.13	0	645.77	0	670.05	0
246	637.99	27168	642.08	5025	645.4	0	645.63	0	645.27	0	669.55	0
252	637.49	34134	641.58	6787	644.9	6294	645.13	4104	644.77	3510	669.05	3881
258	636.99	60197	641.08	9769	644.4	0	644.63	0	644.27	0	668.55	0
264	636.49	50051	640.58	7076	643.9	0	644.13	0	643.77	0	668.05	0
270	635.99	30034	640.08	4852	643.4	0	643.63	0	643.27	0	667.55	0
276	635.49	21669	639.58	4292	642.9	6046	643.13	5143	642.77	3918	667.05	5315
282	634.99	12285	639.08	3729	642.4	0	642.63	0	642.27	0	666.55	0
288	634.49	8497	638.58	4171	641.9	0	642.13	0	641.77	0	666.05	0
294	633.99	7706	638.08	4779	641.4	0	641.63	0	641.27	0	665.55	0
300	633.49	6732	637.58	4739	640.9	6372	641.13	4836	640.77	2902	665.05	2578
306	632.99	5405	637.08	3940	640.4	0	640.63	0	640.27	0	664.55	0
312	632.49	5234	636.58	3020	639.9	0	640.13	0	639.77	0	664.05	0
318	631.99	5484	636.08	2785	639.4	0	639.63	0	639.27	0	663.55	0
324	631.49	6174	635.58	2555	638.9	4841	639.13	2822	638.77	3808	663.05	5037
330	630.99	5472	635.08	2867	638.4	0	638.63	0	638.27	0	662.55	0
336	630.49	4313	634.58	3011	637.9	0	638.13	0	637.77	11192	662.05	0
342	629.99	4947	634.08	2827	637.4	0	637.63	0	637.27	16010	661.55	0
348	629.49	6087	633.58	3244	636.9	2943	637.13	4693	636.77	17353	661.05	3477
354	628.99	5850	633.08	3243	636.4	0	636.63	7967	636.27	17215	660.55	0
360	628.49	5424	632.58	4362	635.9	2331	636.13	17725	635.77	9146	660.05	0
366	627.99	4594	632.08	4754	635.4	2628	635.63	25098	635.27	8102	659.55	0
372	627.49	4468	631.58	0	634.9	3349	635.13	23171	634.77	6609	659.05	2464
378	626.99	5128			634.4	5048	634.63	16654	634.27	3823	658.55	0
384	626.49	4993			633.9	10281	634.13	11158	633.77	3382	658.05	0
390	625.99	4627			633.4	16828	633.63	11096	633.27	4836	657.55	0
396	625.49	5000			632.9	21151	633.13	18537	632.77	6938	657.05	4776
402	624.99	5707			632.4	17938	632.63	28850	632.27	7053	656.55	0
408	624.49	6042			631.9	12084	632.13	8128	631.77	5739	656.05	0
414	623.99	4661			631.4	9645	631.63	5203	631.27	4641	655.55	0
420	623.49	4671			630.9	10266	631.13	5180	630.77	3764	655.05	2038
426	622.99	4701			630.4	14571	630.63	5208	630.27	4248	654.55	0
432	622.49	5569			629.9	14293	630.13	4492	629.77	5846	654.05	0
438	621.99	7312			629.4	7169	629.63	3529	629.27	7248	653.55	0
444	621.49	8319			628.9	5085	629.13	3956	628.77	7347	653.05	5709
450	620.99	6231			628.4	4527	628.63	3662	628.27	5912	652.55	0
456	620.49	3869			627.9	5102	628.13	5446	627.77	4171	652.05	0
462	619.99	3039			627.4	5389	627.63	5949	627.27	4248	651.55	0
468	619.49	2530			626.9	5597	627.13	3981	626.77	6377	651.05	4663
474	618.99	2474			626.4	5771	626.63	3169	626.27	5916	650.55	0
480	618.49	2301			625.9	4884	626.13	2663	625.77	4441	650.05	0
486	617.99	0			625.4	3592	625.63	2567	625.27	4432	649.55	0

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC2007		SEA-ARC2008		SEA-ARC2009		SEA-ARC2010		SEA-ARC2011		SEA-ARC2012	
Surface Elevation (Feet MSL):	658.49		662.58		665.90		666.13		665.77		690.05	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
492					624.9	2817	625.13	2845	624.77	5033	649.05	2140
498					624.4	2362	624.63	2995	624.27	6403	648.55	0
504					623.9	3088	624.13	4202	623.77	9708	648.05	0
510					623.4	4117	623.63	5769	623.27	8503	647.55	0
516					622.9	3183	623.13	6975	622.77	5737	647.05	3051
522					622.4	2643	622.63	8606	622.27	3644	646.55	0
528					621.9	2548	622.13	6874	621.77	3212	646.05	0
534					621.4	2420	621.63	5287	621.27	3276	645.55	0
540					620.9	0	621.13	5628	620.77	4005	645.05	2458
546							620.63	0	620.27	6588	644.55	0
552									619.77	0	644.05	0
558											643.55	0
564											643.05	3519
570											642.55	0
576											642.05	0
582											641.55	0
588											641.05	3691
594											640.55	0
600											640.05	0
606											639.55	0
612											639.05	3288
618											638.55	0
624											638.05	0
630											637.55	0
636											637.05	3178
642											636.55	0
648											636.05	0
654											635.55	0
660											635.05	0
666											634.55	3182
672											634.05	0
678											633.55	0
684											633.05	0
690											632.55	0
696											632.05	0
702											631.55	0
708											631.05	0
714											630.55	0
720											630.05	5274
726											629.55	5673
732											629.05	5125
738											628.55	4346
744											628.05	4975
750											627.55	5319
756											627.05	6046
762											626.55	6493
768											626.05	6378
774											625.55	5909
780											625.05	6098
786											624.55	6464
792											624.05	6171
798											623.55	5006
804											623.05	5405
810											622.55	5611
816											622.05	4012
822											621.55	3710
828											621.05	3303
834											620.55	2098
840											620.05	1731
846											619.55	2283
852											619.05	3305
858											618.55	5375
864											618.05	10994
870											617.55	18008
876											617.05	12560
882											616.55	10795
888											616.05	10291
894											615.55	6463
900											615.05	3778
906											614.55	3683
912											614.05	6690
918											613.55	6766
924											613.05	5334
930											612.55	4222
936											612.05	4600
942											611.55	0
948												

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC2013		SEA-ARC2014		SEA-ARC2015		SEA-ARC2016		SEA-ARC2017		SEA-ARC2018	
Surface Elevation (Feet MSL):	684.42		633.22		631.31		629.49		637.53		644.16	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
0	684.42	5487	633.22	5708	631.31	5548	629.49	6563	637.53	5744	644.16	6748
6	683.92	7801	632.72	7422	630.81	7968	628.99	8833	637.03	7427	643.66	9373
12	683.42	10004	632.22	9114	630.31	9261	628.49	10834	636.53	9431	643.16	11216
18	682.92	0	631.72	7582	629.81	9022	627.99	13370	636.03	11034	642.66	11326
24	682.42	0	631.22	5536	629.31	7099	627.49	21344	635.53	11059	642.16	11190
30	681.92	0	630.72	6269	628.81	4596	626.99	16290	635.03	0	641.66	9863
36	681.42	8785	630.22	9583	628.31	3863	626.49	7874	634.53	9125	641.16	10372
42	680.92	0	629.72	11980	627.81	4273	625.99	5942	634.03	0	640.66	9537
48	680.42	0	629.22	11140	627.31	5664	625.49	5324	633.53	0	640.16	7520
54	679.92	0	628.72	9918	626.81	5830	624.99	3881	633.03	0	639.66	7018
60	679.42	4959	628.22	8704	626.31	5815	624.49	3677	632.53	5864	639.16	6385
66	678.92	0	627.72	8015	625.81	7004	623.99	4179	632.03	0	638.66	3825
72	678.42	0	627.22	8299	625.31	8486	623.49	4265	631.53	0	638.16	2537
78	677.92	0	626.72	9194	624.81	10250	622.99	4235	631.03	0	637.66	2038
84	677.42	4100	626.22	10378	624.31	12137	622.49	3695	630.53	4989	637.16	1823
90	676.92	0	625.72	12790	623.81	16274	621.99	3050	630.03	0	636.66	1549
96	676.42	0	625.22	15270	623.31	13928	621.49	3282	629.53	0	636.16	1531
102	675.92	0	624.72	18122	622.81	8870	620.99	3872	629.03	0	635.66	1738
108	675.42	6940	624.22	23821	622.31	8167	620.49	4985	628.53	8183	635.16	2106
114	674.92	0	623.72	29225	621.81	6668	619.99	6213	628.03	9739	634.66	2336
120	674.42	0	623.22	16017	621.31	5607	619.49	7451	627.53	11456	634.16	2978
126	673.92	0	622.72	7359	620.81	5601	618.99	7273	627.03	13835	633.66	3922
132	673.42	7111	622.22	4056	620.31	4455	618.49	7984	626.53	17454	633.16	6544
138	672.92	0	621.72	2841	619.81	3416	617.99	8639	626.03	30949	632.66	8956
144	672.42	0	621.22	2392	619.31	2515	617.49	8990	625.53	62997	632.16	9720
150	671.92	0	620.72	2586	618.81	2506	616.99	8598	625.03	85521	631.66	8955
156	671.42	1867	620.22	3256	618.31	3073	616.49	8541	624.53	78295	631.16	7934
162	670.92	0	619.72	4054	617.81	4371	615.99	7706	624.03	30991	630.66	7750
168	670.42	0	619.22	3852	617.31	3451	615.49	5392	623.53	14182	630.16	5685
174	669.92	0	618.72	3949	616.81	2286	614.99	4227	623.03	9395	629.66	3386
180	669.42	3658	618.22	3501	616.31	2027	614.49	3426	622.53	9262	629.16	2673
186	668.92	0	617.72	2971	615.81	2062	613.99	3515	622.03	8640	628.66	3593
192	668.42	0	617.22	2480	615.31	2432	613.49	3913	621.53	0	628.16	5437
198	667.92	0	616.72	2658	614.81	2173	612.99	4597	621.03	0	627.66	7344
204	667.42	3952	616.22	3829	614.31	1965	612.49	4840	620.53	4244	627.16	6967
210	666.92	0	615.72	4231	613.81	2682	611.99	4228	620.03	0	626.66	6400
216	666.42	0	615.22	5034	613.31	3745	611.49	5747	619.53	0	626.16	8311
222	665.92	0	614.72	4073	612.81	5021	610.99	7000	619.03	0	625.66	7766
228	665.42	2727	614.22	3257	612.31	6096	610.49	5078	618.53	7307	625.16	6439
234	664.92	0	613.72	2837	611.81	6810	609.99	0	618.03	0	624.66	4761
240	664.42	0	613.22	2664	611.31	8076			617.53	0	624.16	4591
246	663.92	0	612.72	2850	610.81	0			617.03	0	623.66	3878
252	663.42	7316	612.22	3462					616.53	9649	623.16	3288
258	662.92	0	611.72	0					616.03	0	622.66	4083
264	662.42	0							615.53	0	622.16	3618
270	661.92	0							615.03	0	621.66	3155
276	661.42	2514							614.53	7230	621.16	3493
282	660.92	0							614.03	0	620.66	3403
288	660.42	0							613.53	0	620.16	2527
294	659.92	0							613.03	0	619.66	2215
300	659.42	7103							612.53	9077	619.16	1785
306	658.92	0							612.03	6627	618.66	1586
312	658.42	0							611.53	5553	618.16	1908
318	657.92	0							611.03	5539	617.66	3035
324	657.42	4574							610.53	4967	617.16	3946
330	656.92	0							610.03	5920	616.66	3726
336	656.42	0							609.53	6660	616.16	4073
342	655.92	0							609.03	7450	615.66	3963
348	655.42	4277							608.53	7809	615.16	4186
354	654.92	0							608.03	6871	614.66	5343
360	654.42	0							607.53	4632	614.16	7274
366	653.92	0							607.03	3178	613.66	9578
372	653.42	6045							606.53	2653	613.16	10937
378	652.92	0							606.03	2717	612.66	0
384	652.42	0							605.53	3136		
390	651.92	0							605.03	4215		
396	651.42	2395							604.53	6850		
402	650.92	0							604.03	9539		
408	650.42	0							603.53	10641		
414	649.92	0							603.03	9798		
420	649.42	2902							602.53	9163		
426	648.92	0							602.03	8572		
432	648.42	0							601.53	8433		
438	647.92	0							601.03	8355		
444	647.42	3859							600.53	8755		
450	646.92	0							600.03	8480		
456	646.42	0							599.53	9088		
462	645.92	0							599.03	9991		
468	645.42	2979							598.53	11856		
474	644.92	0							598.03	12378		
480	644.42	0							597.53	0		
486	643.92	0										

SEAWAY AREA C
GAMMA LOG RESULTS AND ZONES OF MED-RELATED MATERIAL

Borehole Number:	SEA-ARC2013		SEA-ARC2014		SEA-ARC2015		SEA-ARC2016		SEA-ARC2017		SEA-ARC2018	
Surface Elevation (Feet MSL):	684.42		633.22		631.31		629.49		637.53		644.16	
Depth (inches)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)	Elevation (Feet)	Count Rate (cpm)
492	643.42	3045										
498	642.92	0										
504	642.42	0										
510	641.92	0										
516	641.42	3463										
522	640.92	0										
528	640.42	0										
534	639.92	0										
540	639.42	1735										
546	638.92	0										
552	638.42	0										
558	637.92	0										
564	637.42	2324										
570	636.92	0										
576	636.42	0										
582	635.92	0										
588	635.42	2576										
594	634.92	0										
600	634.42	0										
606	633.92	0										
612	633.42	0										
618	632.92	8676										
624	632.42	13195										
630	631.92	25384										
636	631.42	26293										
642	630.92	24065										
648	630.42	11360										
654	629.92	7164										
660	629.42	0										
666	628.92	0										
672	628.42	0										
678	627.92	0										
684	627.42	0										
690	626.92	0										
696	626.42	0										
702	625.92	0										
708	625.42	0										
714	624.92	0										
720	624.42	7591										
726	623.92	4624										
732	623.42	3833										
738	622.92	3020										
744	622.42	3012										
750	621.92	4949										
756	621.42	6844										
762	620.92	6427										
768	620.42	6882										
774	619.92	6129										
780	619.42	5041										
786	618.92	3634										
792	618.42	3259										
798	617.92	3741										
804	617.42	4253										
810	616.92	4413										
816	616.42	4095										
822	615.92	4057										
828	615.42	0										
834												
840												
846												
852												
858												
864												
870												
876												
882												
888												
894												
900												
906												
912												
918												
924												
930												
936												
942												
948												

EXHIBIT H

SEAWAY LANDFILL LEACHATE COLLECTION SYSTEM SAMPLING EVENT

FIELD REPORTS AND LABORATORY ANALYTICAL RESULTS

August 23, 2000

Field Report and Analytical Results

FIELD REPORT

LEACHATE SAMPLING
SEAWAY LANDFILL
TONAWANDA, NEW YORK

SEPTEMBER 2000

PREPARED FOR:

SAIC, INC.
101 EAST GROVE STREET
MIDDLEBORO, MASSACHUSETTS 02346
ATTENTION: MR. AL DAVIS

PREPARED BY:

ENVIRONMENTAL SAMPLING & SERVICES, INC.
7183 BALLA DRIVE
NORTH TONAWANDA, NEW YORK 14120

1.0 INTRODUCTION

This report describes the sampling of the leachate discharge metering manhole at the Seaway Landfill located in Tonawanda, New York. Environmental Sampling & Services, Inc. (ES&S) personnel performed the sampling on September 1, 2000.

2.0 EQUIPMENT CALIBRATION

Prior to mobilization, all field equipment and instrumentation were checked for condition and calibration.

- pH meter was two-point calibrated with 7.00 S.U. and 10.00 S.U. buffer solutions.

- Conductivity meter was three-point calibrated with 101.8, 1002 and 9320 umhos/cm buffer solutions.

- Turbidity meter was two-point calibrated with 5.0 NTU and 20.0 NTU standards.

3.0 SAMPLE CONTAINER PREPARATION

All containers used in the collection of samples were provided new and cleaned from ThermoRetec Laboratories. These bottles were stored in a clean environment at ES&S prior to their use.

4.0 LEACHATE SAMPLE COLLECTION

Leachate samples were collected as a grab sample directly from the metering manhole discharge flume using an ISCO Model 1580 peristaltic pump with dedicated silicone rubber pump hose and polyethylene tubing. Sample containers were filled directly from the ISCO peristallic pump discharge tube. An additional sample was taken to facilitate measurement of field analytical parameters.

5.0 FIELD MEASUREMENT

On site field measurements include pH, specific conductivity, temperature, eH, and turbidity. This data is presented on the Field Observation Forms.

6.0 SAMPLE CONTROL AND CHAIN OF CUSTODY

A chain of custody manifest was initiated at the time of sample collection and accompanied the samples through delivery to ThermoRetecLaboratories.

SEAWAY LANDFILL - METERING MANHOLE **FIELD OBSERVATION DATA**

SAMPLING INFORMATION

TYPE OF SAMPLE: (X) GRAB ( ) 24 HOUR COMPOSITE

DATE / TIME 9 - 1 - 00 / 8:20 SAMPLED BY [redacted]

FIELD MEASUREMENT INFORMATION

pH (STANDARD UNITS)		SPECIFIC CONDUCTANCE (UMHOS/CM)	
DATE	9 - 1 - 00	DATE	9 - 1 - 00
TIME	8:25	TIME	8:25
TAKEN BY	[redacted]	TAKEN BY	[redacted]
UNIT-BRAND	BECKMAN	UNIT-BRAND	FISHER SCIENTIFIC
MODEL #	pH I 11	MODEL #	09 - 326 - 2
STANDARDS USED:	( ) 4 (X) 7 (X) 10	STANDARDS USED:	(X) 102.8 (X) 1002 (X) 9975
TEMPERATURE (C)	17.7	TEMPERATURE (C)	17.7
pH	7.21 (SU)	SPECIFIC CONDUCTANCE	5220 ushos/cm
eH	-32.5 mV	TURBIDITY	13.40 NTU

SAMPLE CHARACTERISTICS: CLEAR - TAN TINT

WEATHER CONDITIONS AT TIME OF SAMPLING: SUNNY, 75 F

DISCHARGE - TOTALIZER: 3853022

COMMENTS: (2) 1 GALLON BOTTLES COLLECTED

S.A.I.C.

Seaway Landfill

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #00-09013-OR

September 28, 2000

THERMO RETEC/OAK RIDGE LABORATORY
OAK RIDGE, TN

SECTION III

CASE NARRATIVE

Smart Solutions. Positive Outcomes.

Nuclear Services

601 Scarboro Road
Oak Ridge, TN 37830
(865) 481-0683 Phone
(865) 483-4621 Lab Fax
(865) 481-0121 Adm. Fax
www.thermoretec.com

TNU-OR-13553

September 28, 2000

[redacted]
Science Applications Intl Corp
101 East Grove Street
Middleboro, MA 02346

CASE NARRATIVE
Work Order# 00-09013-OR

SAMPLE RECEIPT

This work order contains two water samples received 9/2/2000. These samples were analyzed for Gross Alpha/Beta, Radium-226/228, Isotopic Thorium, Isotopic Uranium and by Gamma Spectroscopy.

CLIENT ID	LAB ID
Seaway Landfill Leachate	00-09013-04
Seaway L.F. Leachate-DUP	00-09013-05

The file name for these samples is 0009013.xls.

ANALYTICAL METHODS

Gross Alpha/Beta was performed by gas flow proportional counting using EPA Method 900.0 Modified. Radium-226 was analyzed using EPA Method 903.0 Modified. Radium-228 was analyzed using EPA Method 904.0 Modified. Isotopic Thorium was analyzed using method EML Th-01 Modified. Isotopic Uranium was analyzed using Method EML U-02 Modified. Gamma Spectroscopy was performed using EPA Method 901.1 Modified.

SPECIAL PROBLEMS OR UNUSUAL CIRCUMSTANCES

ISOTOPIC URANIUM

Samples demonstrated levels of Uranium that were equal to the sample specific detection limit. All chemical recoveries were within acceptable limits (>20%). The laboratory control standard and the replicate analysis both had acceptable (≤2.58) normalized differences. There were no significant problems associated with the analysis of these samples.

00017

~~00003~~

SPECIAL PROBLEMS OR UNUSUAL CIRCUMSTANCES CONTINUED

ISOTOPIC THORIUM

Samples demonstrated levels of ^{228}Thorium and ^{232}Thorium that were statistically equal to the sample specific detection limits. The ^{230}Thorium results were equal to, to slightly elevated above, the sample specific detection limit. Samples with elevated levels of Uranium are known to have false positive results for ^{230}Thorium based on an incorrect identification of the ^{234}Uranium alpha emissions. Examination of the alpha spectra for this work order showed no such contamination. All chemical recoveries were within acceptable limits (>20%). The laboratory control standard and the replicate analysis both had acceptable (≤2.58) normalized differences. There were no problems associated with the analysis of these samples.

RADIUM-226

Samples demonstrated ^{226}Radium results that were slightly elevated above the sample specific detection limit. All chemical recoveries were within acceptable limits (>20%). The laboratory control standard and the replicate analysis both had acceptable (≤2.58) normalized differences. There were no significant problems associated with the analysis of these samples.

RADIUM-228

Samples demonstrated ^{228}Radium results that were slightly elevated above the sample specific detection limit. All chemical recoveries were within acceptable limits (>20%). The laboratory control standard and the replicate analysis both had acceptable (≤2.58) normalized differences. There were no significant problems associated with the analysis of these samples.

GROSS ALPHA/BETA

Some or all of the samples in this work order had detection limits that were higher than normally seen for this analysis. This situation was the result of the high level of suspended and/or dissolved solids present in the samples. Based on the maximum energies of alpha particles, it is only practical to correct samples for self-absorption up to a final deposited mass of about 120 milligrams on a two-inch planchet (EPA Method 900.0). In order to stay within this calibration limit, it was necessary to use aliquots for these samples that were substantially reduced from those normally used in this determination. Additionally, the high deposited mass required the use of a significant self-absorption factor in the calculation of the results, uncertainties, and detection limits. These two factors resulted in elevation of the detection limits above what is normally seen for this analysis. Though the detection limits could be lowered through longer counting times, the inverse-square relationship between count time and detection limits (a four times longer count to lower the detection limit by half) dictates that impractically long count times would be required to produce "normal" detection limits. We feel that the data as presented represents the best compromise between the desired detection limits and the problems inherent in the sample matrix. The Alpha analysis results were slightly elevated above the sample specific detection limit. The Beta analysis results were somewhat elevated above the sample specific detection limit. The normalized difference was elevated (>2.58) for laboratory control standard for both the Alpha and Beta results. The recoveries (110.42% - Alpha, 104.77% - Beta) were well within the normally accepted limits for this analysis. The normalized difference for the replicate analysis was acceptable (≤2.58) for both the Alpha and Beta analysis. There were no significant problems associated with this analysis.

SPECIAL PROBLEMS OR UNUSUAL CIRCUMSTANCES CONTINUED

GAMMA SPECTRAL ANALYSIS

At the client's request, only isotopes particular to the Uranium and Thorium decay chains were reported from the gamma spectral analysis. The results for the listed isotopes ranged from less than, to slightly elevated above, the sample specific detection limit. The normalized difference comparison gave acceptable (≤2.58) results for both the laboratory control standard and the replicate analysis. There were no problems associated with the analysis of these samples.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

[redacted]

Laboratory Manager

Date: 09/28/00

SECTION IV

ANALYTICAL RESULTS SUMMARY

[redacted]
S.A.I.C.
101 East Grove Street
Middleboro, MA 02346

PO#: 4400030666
SDG: 0009013
Matrix: Water

Final Report of Analysis
Date of Report: 09/28/00

Lab ID		Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
0009013-01	K	KNOWN	09/02/00	09/02/00	09/09/00	0009013	Gross Alpha	EPA 900.0 Modified	216.11	9.29	0.60	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/09/00	0009013	Gross Alpha	EPA 900.0 Modified	238.63	7.40	0.60	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/09/00	0009013	Gross Alpha	EPA 900.0 Modified	0.03	0.19	0.48	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/09/00	0009013	Gross Alpha	EPA 900.0 Modified	6.35	14.35	14.99	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/09/00	0009013	Gross Alpha	EPA 900.0 Modified	6.52	10.76	11.27	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/09/00	0009013	Gross Alpha	EPA 900.0 Modified	47.03	20.39	18.66	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/09/00	0009013	Gross Beta	EPA 900.0 Modified	203.59	4.28	1.16	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/09/00	0009013	Gross Beta	EPA 900.0 Modified	213.31	5.99	1.16	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/09/00	0009013	Gross Beta	EPA 900.0 Modified	-0.59	0.50	1.18	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/09/00	0009013	Gross Beta	EPA 900.0 Modified	100.10	21.49	19.65	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/09/00	0009013	Gross Beta	EPA 900.0 Modified	85.07	21.57	20.02	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/09/00	0009013	Gross Beta	EPA 900.0 Modified	144.56	19.26	16.39	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/25/00	0009013	Cobalt-60	EPA 901.1 Modified	192682.96	8478.05	724.50	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/25/00	0009013	Cesium-137	EPA 901.1 Modified	111436.25	5126.07	657.00	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/25/00	0009013	Cobalt-60	EPA 901.1 Modified	200700.00	14210.00	724.50	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/25/00	0009013	Cesium-137	EPA 901.1 Modified	119500.00	12390.00	657.00	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Actinium-228	EPA 901.1 Modified	24.40	23.92	45.80	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Bismuth-212	EPA 901.1 Modified	13.11	48.68	89.10	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Bismuth-214	EPA 901.1 Modified	11.85	18.99	24.48	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Protactinium-234m	EPA 901.1 Modified	-395.70	884.70	1306.00	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Lead-212	EPA 901.1 Modified	-1.75	11.00	16.64	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Lead-214	EPA 901.1 Modified	4.50	13.89	21.29	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Thorium-234	EPA 901.1 Modified	348.50	167.40	133.50	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/25/00	0009013	Thallium-208	EPA 901.1 Modified	8.30	18.60	29.32	pCi/l

K=Known,S=Spike,B=Blank,D=Duplicate,MS=Matrix Spike

00021

[redacted]
S.A.I.C.
101 East Grove Street
Middleboro, MA 02346

PO#: 4400030666
SDG: 0009013
Matrix: Water

Final Report of Analysis
Date of Report: 09/28/00

Lab ID		Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Actinium-228	EPA 901.1 Modified	-6.92	36.74	57.91	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Bismuth-212	EPA 901.1 Modified	9.78	62.06	113.30	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Bismuth-214	EPA 901.1 Modified	5.94	18.15	30.49	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Cesium-137	EPA 901.1 Modified	14.22	9.33	16.14	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Protactinium-234m	EPA 901.1 Modified	515.90	1029.00	1826.00	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Lead-212	EPA 901.1 Modified	-4.31	13.23	19.75	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Lead-214	EPA 901.1 Modified	-0.74	16.42	23.94	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Thorium-234	EPA 901.1 Modified	-163.90	124.40	204.50	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Thallium-208	EPA 901.1 Modified	-15.47	25.14	38.79	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Actinium-228	EPA 901.1 Modified	-12.61	33.78	51.14	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Bismuth-212	EPA 901.1 Modified	58.68	69.21	122.00	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Bismuth-214	EPA 901.1 Modified	8.79	20.03	30.15	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Cesium-137	EPA 901.1 Modified	9.57	8.85	17.05	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Protactinium-234m	EPA 901.1 Modified	25.48	997.30	1686.00	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Lead-212	EPA 901.1 Modified	3.02	18.17	17.60	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Lead-214	EPA 901.1 Modified	14.11	25.20	28.07	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Thorium-234	EPA 901.1 Modified	-247.50	127.20	201.60	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/22/00	0009013	Thallium-208	EPA 901.1 Modified	-12.61	27.84	40.36	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Actinium-228	EPA 901.1 Modified	8.32	18.21	32.33	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Bismuth-212	EPA 901.1 Modified	-5.56	46.82	74.75	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Bismuth-214	EPA 901.1 Modified	4.08	13.10	20.59	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Cesium-137	EPA 901.1 Modified	0.04	5.57	9.72	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Potassium-40	EPA 901.1 Modified	154.20	93.05	95.92	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Protactinium-234m	EPA 901.1 Modified	73.62	689.20	1186.00	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Lead-212	EPA 901.1 Modified	-3.08	10.80	17.25	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Lead-214	EPA 901.1 Modified	0.98	11.85	18.80	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Thorium-234	EPA 901.1 Modified	139.90	196.30	168.50	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Thallium-208	EPA 901.1 Modified	30.39	19.83	29.37	pCi/l

K=Known,S=Spike,B=Blank,D=Duplicate,MS=Matrix Spike

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601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

Lab ID		Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
0009013-01	K	KNOWN	09/02/00	09/02/00	09/20/00	0009013	Radium-226	EPA 903.0 Modified	9.81	0.45	0.09	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/20/00	0009013	Radium-226	EPA 903.0 Modified	9.62	1.33	0.09	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/20/00	0009013	Radium-226	EPA 903.0 Modified	0.13	0.11	0.15	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/20/00	0009013	Radium-226	EPA 903.0 Modified	1.40	0.53	0.39	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/20/00	0009013	Radium-226	EPA 903.0 Modified	1.23	0.46	0.22	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/20/00	0009013	Radium-226	EPA 903.0 Modified	1.14	0.46	0.36	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/21/00	0009013	Radium-228	EPA 904.0 Modified	19.21	0.86	1.06	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/21/00	0009013	Radium-228	EPA 904.0 Modified	21.36	1.59	1.06	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/21/00	0009013	Radium-228	EPA 904.0 Modified	-0.27	0.66	1.22	pCi/l
0009013-03	D	Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Radium-228	EPA 904.0 Modified	1.51	0.87	1.36	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Radium-228	EPA 904.0 Modified	0.76	0.77	1.27	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Radium-228	EPA 904.0 Modified	1.43	0.69	1.04	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/24/00	0009013	Thorium-228	EML Th-01 Modified	4.80	0.17	0.12	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/24/00	0009013	Thorium-228	EML Th-01 Modified	5.20	1.16	0.12	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/24/00	0009013	Thorium-228	EML Th-01 Modified	0.01	0.04	0.11	pCi/l
0009013-03	D	Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/24/00	0009013	Thorium-228	EML Th-01 Modified	0.33	0.45	0.84	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/24/00	0009013	Thorium-228	EML Th-01 Modified	0.10	0.38	0.98	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/24/00	0009013	Thorium-228	EML Th-01 Modified	0.32	0.39	0.64	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/24/00	0009013	Thorium-230	EML Th-01 Modified	5.39	0.15	0.19	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/24/00	0009013	Thorium-230	EML Th-01 Modified	5.67	1.25	0.19	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/24/00	0009013	Thorium-230	EML Th-01 Modified	0.13	0.11	0.14	pCi/l
0009013-03	D	Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/24/00	0009013	Thorium-230	EML Th-01 Modified	1.11	0.69	0.86	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/24/00	0009013	Thorium-230	EML Th-01 Modified	3.00	1.41	0.98	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/24/00	0009013	Thorium-230	EML Th-01 Modified	0.56	0.48	0.64	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/24/00	0009013	Thorium-232	EML Th-01 Modified	4.80	0.17	0.14	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/24/00	0009013	Thorium-232	EML Th-01 Modified	4.92	1.11	0.14	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/24/00	0009013	Thorium-232	EML Th-01 Modified	0.00	0.04	0.15	pCi/l
0009013-03	D	Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/24/00	0009013	Thorium-232	EML Th-01 Modified	0.46	0.43	0.62	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/24/00	0009013	Thorium-232	EML Th-01 Modified	0.67	0.69	1.10	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/24/00	0009013	Thorium-232	EML Th-01 Modified	0.33	0.38	0.61	pCi/l

K=Known,S=Spike,B=Blank,D=Duplicate,MS=Matrix Spike

00023

[redacted]
S.A.I.C.
101 East Grove Street
Middleboro, MA 02346

PO#: 4400030666
SDG: 0009013
Matrix: Water

Final Report of Analysis
Date of Report: 09/28/00

Lab ID		Client ID	Sample Date	Receipt Date	Analysis Date	Batch ID	Analyte	Method	Result	Error	MDA	Units
0009013-01	K	KNOWN	09/02/00	09/02/00	09/21/00	0009013	Uranium-234	EML U-02 Modified	8.48	0.31	0.17	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/21/00	0009013	Uranium-234	EML U-02 Modified	8.93	2.14	0.17	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/21/00	0009013	Uranium-234	EML U-02 Modified	0.30	0.19	0.17	pCi/l
0009013-03	D	Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-234	EML U-02 Modified	2.02	1.98	1.93	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Uranium-234	EML U-02 Modified	5.94	3.27	1.94	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-234	EML U-02 Modified	3.98	3.15	3.51	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/21/00	0009013	Uranium-235	EML U-02 Modified	0.39	0.01	0.16	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/21/00	0009013	Uranium-235	EML U-02 Modified	0.41	0.25	0.16	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/21/00	0009013	Uranium-235	EML U-02 Modified	-0.01	0.01	0.15	pCi/l
0009013-03	D	Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-235	EML U-02 Modified	1.03	1.49	1.40	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Uranium-235	EML U-02 Modified	0.73	1.15	1.83	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-235	EML U-02 Modified	0.56	1.13	1.51	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/21/00	0009013	Uranium-236	EML U-02 Modified	0.08	0.10	0.13	pCi/l
0009013-03	D	Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-236	EML U-02 Modified	0.00	0.00	1.25	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Uranium-236	EML U-02 Modified	0.36	0.72	0.96	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-236	EML U-02 Modified	-0.08	0.17	2.31	pCi/l
0009013-01	K	KNOWN	09/02/00	09/02/00	09/21/00	0009013	Uranium-238	EML U-02 Modified	8.27	0.30	0.22	pCi/l
0009013-01	S	SPIKE	09/02/00	09/02/00	09/21/00	0009013	Uranium-238	EML U-02 Modified	8.68	2.09	0.22	pCi/l
0009013-02	B	BLANK	09/02/00	09/02/00	09/21/00	0009013	Uranium-238	EML U-02 Modified	0.06	0.09	0.18	pCi/l
0009013-03	D	Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-238	EML U-02 Modified	3.88	2.92	2.72	pCi/l
0009013-04		Seaway Landfill Leachate	09/01/00	09/02/00	09/21/00	0009013	Uranium-238	EML U-02 Modified	5.38	3.04	1.48	pCi/l
0009013-05		Seaway L.F Leachate-DUP	09/01/00	09/02/00	09/21/00	0009013	Uranium-238	EML U-02 Modified	3.81	2.97	2.71	pCi/l

K=Known,S=Spike,B=Blank,D=Duplicate,MS=Matrix Spike

Smart Solutions, Positive Outcomes.
601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

January 26, 2001

Field Report and Analytical Results

FIELD REPORT

LEACHATE SAMPLING
SEAWAY LANDFILL
TONAWANDA, NEW YORK

JANUARY 2001

PREPARED FOR:

SAIC, INC.
101 EAST GROVE STREET
MIDDLEBORO, MASSACHUSETTS 02346
ATTENTION: MR. AL DAVIS

PREPARED BY:

ENVIRONMENTAL SAMPLING & SERVICES, INC.
7183 BALLA DRIVE
NORTH TONAWANDA, NEW YORK 14120

1.0 INTRODUCTION

This report describes the sampling of the leachate discharge metering manhole at the Seaway Landfill located in Tonawanda, New York. Environmental Sampling & Services, Inc. (ES&S) personnel performed the sampling on January 25, 2001.

2.0 EQUIPMENT CALIBRATION

Prior to mobilization, all field equipment and instrumentation were checked for condition and calibration.

- pH meter was two-point calibrated with 7.00 S.U. and 10.00 S.U. buffer solutions.

- Conductivity meter was three-point calibrated with 101.8, 1002 and 9320 umhos/cm buffer solutions.

- Turbidity meter was two-point calibrated with 5.0 NTU and 20.0 NTU standards.

4.0 SAMPLE CONTAINER PREPARATION

All containers used in the collection of samples for this project were provided new and clean from ThermoRetec Laboratories. These bottles were shipped to ES&S and stored in a clean environment prior to their use.

5.0 LEACHATE SAMPLE COLLECTION

Leachate samples were collected as a grab sample directly from the metering manhole discharge flume using an ISCO Model 1580 peristaltic pump with dedicated silicone rubber pump hose and polyethylene tubing. Sample containers were filled directly from the ISCO peristallic pump discharge tube. An additional sample was taken to facilitate measurement of field analytical parameters.

6.0 FIELD MEASUREMENT

On site field measurements include pH, specific conductivity, temperature, eH, and turbidity. This data is presented on the Field Observation Forms.

7.0 FIELD DUPLICATE

A field duplicate was collected at a frequency of one (1) per sampling event. The field duplicate consisted of a set of all parameters and field measurements, and was obtained immediately after the original sample.

8.0 CHAIN OF CUSTODY

A chain of custody manifest was initiated at the time of sample collection and accompanied the samples through delivery to ThermoRetec Laboratories in Oak Ridge, Tennesee.

SEAWAY LANDFILL - METERING MANHOLE **FIELD OBSERVATION DATA**

SAMPLING INFORMATION

TYPE OF SAMPLE: (X) GRAB ( ) 24 HOUR COMPOSITE

DATE / TIME 1 - 25 - 01 / 8:05 SAMPLED BY [redacted]

FIELD MEASUREMENT INFORMATION

pH (STANDARD UNITS)		SPECIFIC CONDUCTANCE (UMHOS/CM)	
DATE	1 - 25 - 01	DATE	1 - 25 - 01
TIME	8:08	TIME	8:08
TAKEN BY	[redacted]	TAKEN BY	[redacted]
UNIT-BRAND	BECKMAN	UNIT-BRAND	FISHER SCIENTIFIC
MODEL #	pH I 11	MODEL #	09 - 326 - 2
STANDARDS USED:	( ) 4 (X) 7 (X) 10	STANDARDS USED:	(X) 102.8 (X) 1002 (X) 9975
TEMPERATURE (C)	8.0	TEMPERATURE (C)	8.0
pH	7.16 (SU)	SPECIFIC CONDUCTANCE	4720 ushos/cm
eH	+3.2 mV	TURBIDITY	16.00 NTU

SAMPLE CHARACTERISTICS: CLEAR - AMBER

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 20 F

DISCHARGE - TOTALIZER: 4130434

COMMENTS:

SEAWAY LANDFILL - METERING MANHOLE **FIELD OBSERVATION DATA**

SAMPLING INFORMATION

TYPE OF SAMPLE: (X) GRAB ( ) 24 HOUR COMPOSITE

DATE / TIME 1 - 25 - 01 / 8:10 (DUPLICATE) SAMPLED BY [redacted]

FIELD MEASUREMENT INFORMATION

pH (STANDARD UNITS)		SPECIFIC CONDUCTANCE (UMHOS/CM)	
DATE	1 - 25 - 01	DATE	1 - 25 - 01
TIME	8:14	TIME	8:14
TAKEN BY	[redacted]	TAKEN BY	[redacted]
UNIT-BRAND	BECKMAN	UNIT-BRAND	FISHER SCIENTIFIC
MODEL #	pH I 11	MODEL #	09 - 326 - 2
STANDARDS USED:	( ) 4 (X) 7 (X) 10	STANDARDS USED:	(X) 102.8 (X) 1002 (X) 9975
TEMPERATURE (C)	7.8	TEMPERATURE (C)	7.8
pH	7.08 (SU)	SPECIFIC CONDUCTANCE	4780 ushos/cm
eH	+7.3 mV	TURBIDITY	16.00 NTU

SAMPLE CHARACTERISTICS: CLEAR - AMBER

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 20 F

DISCHARGE - TOTALIZER: 4130445

COMMENTS: DUPLICATE SAMPLE

S.A.I.C.

Seaway Landfill

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #01-01169-OR

February 16, 2001

EBERLINE SERVICES/OAK RIDGE LABORATORY
OAK RIDGE, TN

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

Oak Ridge Laboratory
601 Scarboro Road
Oak Ridge, TN 37830
Phone (865) 481-0683
Fax (865) 483-4621

EBS-OR-14550

February 16, 2001

[redacted]
Science Applications International Corporation
101 East Grove Street
Middleboro, MA 02346

CASE NARRATIVE
Work Order #01-01169-OR

SAMPLE RECEIPT

This work order contains two water samples received 1/26/2001. Both samples were analyzed for Gross Alpha/Beta, Radium-226/228, Isotopic Thorium, Isotopic Uranium, and by Gamma Spectroscopy.

CLIENT ID	LAB ID
Seaway Landfill Leachate	01-01169-04
Seaway Landfill Leachate DUP	01-01169-05

The file name for these samples is 0101169.XLS.

ANALYTICAL METHODS

Gross Alpha/Beta was performed by gas flow proportional counting using EPA Method 900.0 Modified. Radium-226 was analyzed using EPA Method 903.0 modified. Radium-228 was analyzed using EPA Method 904.0 Modified. Isotopic Thorium was analyzed using Method EML Th-01 modified. Isotopic Uranium was analyzed using Method EML U-02 modified. Gamma Spectroscopy was performed using EPA Method 901.1 Modified.

SPECIAL PROBLEMS OR UNUSUAL CIRCUMSTANCES

ISOTOPIC URANIUM

Samples demonstrated levels of what appears to be natural Uranium (based on the $^{234}U/^{238}U$ ratio) that were slightly elevated above the sample specific detection limit. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard and the replicate analysis both had acceptable ($\leq$2.58) normalized differences with the exception of the ^{235}Uranium laboratory control standard. The normalized difference was elevated for the ^{235}Uranium laboratory control standard and the relative percent difference was also elevated. Because the diodes used for this determination are calibrated using an average efficiency and the other two isotopes for Uranium were well within acceptable limits, this poor performance on the normalized difference comparison was not determined to be a valid reason for disqualifying the data. Additionally, historic records for the determination of this and other standards based on naturally occurring ratios of Uranium have shown a high degree of variability for the ^{235}Uranium (based on the percent recovery or normalized difference). While this statistical uncertainty could be alleviated somewhat by going to a higher activity level, client requirements and the problems associated with the resulting physical mass of Uranium and the consequential spectral degradation make this a less than optimum solution to the problem. There were no significant problems associated with the analysis of these samples.

SPECIAL PROBLEMS OR UNUSUAL CIRCUMSTANCES CONTINUED

ISOTOPIC THORIUM

Isotopic Thorium was reanalyzed once due to a failure of the QA/QC samples. Samples demonstrated levels of ^{228}Thorium, ^{230}Thorium and ^{232}Thorium which were less than the sample specific detection limits. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard and the replicate analysis both had acceptable (≤2.58) normalized differences with the exception of the ^{228}Thorium replicate. The normalized difference was elevated for this replicate but the results were both less than their associated detection limit. There were no other significant problems associated with the analysis of these samples.

RADIUM-226

Samples demonstrated ^{226}Radium results that were very slightly elevated above the sample specific detection limit. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard and the replicate analysis both had acceptable (≤2.58) normalized differences. There were no significant problems associated with the analysis of these samples.

RADIUM-228

Samples demonstrated results that were less than the sample specific detection limit. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard had an elevated (>2.58) normalized difference but the result was acceptable based on the percent recovery (89.31%). The normalized difference was acceptable for the replicate analysis. There were no significant problems associated with the analysis of these samples.

GROSS ALPHA/BETA

The Alpha analysis results were slightly elevated above the detection limit. The Beta results were somewhat elevated above the sample specific detection limit. The normalized difference was acceptable (≤2.58) for the laboratory control standard and replicate analysis for both the Gross Alpha and Gross Beta data. There were no significant problems associated with this analysis.

GAMMA SPECTRAL ANALYSIS

At the clients request, ^{60}Cobalt, ^{137}Cesium, ^{228}Actinium, ^{212}Bismuth, ^{214}Bismuth, ^{212}Lead, ^{214}Lead, ^{234m}Protactinium, ^{234}Thorium, ^{208}Thallium and all other valid positive results were reported from the gamma spectral analysis. There were no results greater than their associated sample specific detection limit. The normalized difference comparison gave acceptable (≤2.58) results for both the laboratory control standard and the replicate analysis. There were no problems associated with the analysis of these samples.

CERTIFICATION OF ACCURACY

The laboratory certifies that all methods and performance criteria used were those described in the Statement of Work (SOW) and QAPjP developed by SAIC specifically for this project. Furthermore, that all data outside the project performance criteria has been approved by the SAIC QAO for this project and that he has received a satisfactory (as determined by SAIC) explanation. The laboratory also certifies that the diskette deliverables (electronic data transmissions) submitted with each written data package is an exact copy of the data submitted on paper and that no discrepancies exist between the two.

[redacted]

Laboratory Manager

Date: 02/16/01

SECTION IV

ANALYTICAL RESULTS SUMMARY

FrankStevenson
S.A.I.C
101 East Grove Street
Middleboro, MA 02346

SDG: 0101169
Date Received: 1/26/2001
Matrix: Water

Final Report of Analysis
Date: 02/16/01

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
LCST	0101169-01	01/26/01	01/30/01	10045-97-3	Cesium-137	121227.78		5697.71	835.60	pCi/l
LCST	0101169-01	01/26/01	01/30/01	10198-40-0	Cobalt-60	190756.57		9346.59	847.40	pCi/l
LCST	0101169-01	01/26/01	01/29/01	12587-46-1	Gross Alpha	216.30		9.30	0.36	pCi/l
LCST	0101169-01	01/26/01	01/29/01	12587-47-2	Gross Beta	202.00		4.24	1.02	pCi/l
LCST	0101169-01	01/26/01	01/30/01	13982-63-3	Radium-226	7.78		0.36	0.20	pCi/l
LCST	0101169-01	01/26/01	02/13/01	15262-20-1	Radium-228	13.43		0.23	0.70	pCi/l
LCST	0101169-01	01/26/01	02/11/01	14274-82-9	Thorium-228	4.62		0.17	0.16	pCi/l
LCST	0101169-01	01/26/01	02/11/01	14269-63-7	Thorium-230	5.37		0.14	0.10	pCi/l
LCST	0101169-01	01/26/01	02/11/01	7440-29-1	Thorium-232	4.62		0.17	0.10	pCi/l
LCST	0101169-01	01/26/01	02/07/01	NS632	Uranium-234	7.88		0.28	0.20	pCi/l
LCST	0101169-01	01/26/01	02/07/01	15117-96-1	Uranium-235	0.36		0.01	0.07	pCi/l
LCST	0101169-01	01/26/01	02/07/01	24678-82-8	Uranium-238	7.69		0.28	0.17	pCi/l
LCSF	0101169-01	01/26/01	01/30/01	10045-97-3	Cesium-137	129500.00		13720.00	835.60	pCi/l
LCSF	0101169-01	01/26/01	01/30/01	10198-40-0	Cobalt-60	194400.00		14720.00	847.40	pCi/l
LCSF	0101169-01	01/26/01	01/29/01	12587-46-1	Gross Alpha	222.66		7.17	0.36	pCi/l
LCSF	0101169-01	01/26/01	01/29/01	12587-47-2	Gross Beta	209.15		6.03	1.02	pCi/l
LCSF	0101169-01	01/26/01	01/30/01	13982-63-3	Radium-226	6.73		0.95	0.20	pCi/l
LCSF	0101169-01	01/26/01	02/13/01	15262-20-1	Radium-228	11.99		0.98	0.70	pCi/l
LCSF	0101169-01	01/26/01	02/11/01	14274-82-9	Thorium-228	5.03		1.12	0.16	pCi/l
LCSF	0101169-01	01/26/01	02/11/01	14269-63-7	Thorium-230	5.61		1.23	0.10	pCi/l
LCSF	0101169-01	01/26/01	02/11/01	7440-29-1	Thorium-232	4.30		0.98	0.10	pCi/l
LCSF	0101169-01	01/26/01	02/07/01	NS632	Uranium-234	7.90		1.79	0.20	pCi/l
LCSF	0101169-01	01/26/01	02/07/01	15117-96-1	Uranium-235	0.11	U	0.11	0.07	pCi/l
LCSF	0101169-01	01/26/01	02/07/01	24678-82-8	Uranium-238	7.78		1.76	0.17	pCi/l

00021

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
BLANK	0101169-02	01/26/01	01/30/01	14331-83-0	Actinium-228	13.40	U	18.10	33.02	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	14913-49-6	Bismuth-212	-0.29	U	41.52	69.62	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	14733-03-0	Bismuth-214	-11.49	U	12.92	18.66	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	10045-97-3	Cesium-137	3.57	U	6.30	9.46	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	10198-40-0	Cobalt-60	-0.75	U	5.21	9.01	pCi/l
BLANK	0101169-02	01/26/01	01/29/01	12587-46-1	Gross Alpha	0.00	U	0.21	0.58	pCi/l
BLANK	0101169-02	01/26/01	01/29/01	12587-47-2	Gross Beta	0.10	U	0.45	0.94	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	15092-94-1	Lead-212	-2.96	U	9.36	16.34	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	15067-28-4	Lead-214	-10.77	U	12.67	19.23	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	15100-28-4	Protactinium-234m	-169.20	U	666.80	1121.00	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	13982-63-3	Radium-226	0.28	J	0.15	0.17	pCi/l
BLANK	0101169-02	01/26/01	02/13/01	15262-20-1	Radium-228	0.00	U	0.65	0.73	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	14913-50-9	Thallium-208	7.61	U	20.24	23.61	pCi/l
BLANK	0101169-02	01/26/01	02/11/01	14274-82-9	Thorium-228	0.01	U	0.06	0.18	pCi/l
BLANK	0101169-02	01/26/01	02/11/01	14269-63-7	Thorium-230	0.04	U	0.08	0.16	pCi/l
BLANK	0101169-02	01/26/01	02/11/01	7440-29-1	Thorium-232	0.02	U	0.08	0.20	pCi/l
BLANK	0101169-02	01/26/01	01/30/01	15065-10-8	Thorium-234	51.53	U	126.50	151.10	pCi/l
BLANK	0101169-02	01/26/01	02/07/01	NS632	Uranium-234	0.09	U	0.13	0.25	pCi/l
BLANK	0101169-02	01/26/01	02/07/01	15117-96-1	Uranium-235	0.00	U	0.07	0.22	pCi/l
BLANK	0101169-02	01/26/01	02/07/01	24678-82-8	Uranium-238	0.11	U	0.13	0.22	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	14331-83-0	Actinium-228	-19.63	U	30.81	47.00	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	14913-49-6	Bismuth-212	4.15	U	63.93	115.50	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	14733-03-0	Bismuth-214	2.24	U	20.41	34.62	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	10045-97-3	Cesium-137	-5.96	U	9.58	15.38	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	10198-40-0	Cobalt-60	6.63	U	9.90	17.93	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/29/01	12587-46-1	Gross Alpha	31.52		12.36	10.92	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/29/01	12587-47-2	Gross Beta	106.69		10.36	8.22	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	15092-94-1	Lead-212	-5.93	U	13.41	21.41	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	15067-28-4	Lead-214	18.94	U	26.39	30.75	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	15100-28-4	Protactinium-234m	-785.40	U	1105.00	1588.00	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	14913-50-9	Thallium-208	4.96	U	28.16	46.55	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	02/11/01	14274-82-9	Thorium-228	0.85	J	0.58	0.58	pCi/l

EBERLINE SERVICES
Oak Ridge Laboratory
601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway Landfill Leachate	0101169-03	01/25/01	02/11/01	14269-63-7	Thorium-230	0.34	U	0.46	0.88	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	02/11/01	7440-29-1	Thorium-232	0.08	U	0.24	0.61	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	01/30/01	15065-10-8	Thorium-234	191.50	J	129.50	154.30	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	02/07/01	NS632	Uranium-234	8.75		2.59	0.56	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	02/07/01	15117-96-1	Uranium-235	0.36	U	0.45	0.59	pCi/l
Seaway Landfill Leachate	0101169-03	01/25/01	02/07/01	24678-82-8	Uranium-238	8.56		2.55	0.72	pCi/l
Seaway Landfill Leachate DUP	0101169-03	01/25/01	01/30/01	13982-63-3	Radium-226	1.34		0.53	0.39	pCi/l
Seaway Landfill Leachate DUP	0101169-03	01/25/01	02/13/01	15262-20-1	Radium-228	0.41	U	0.74	0.81	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	14331-83-0	Actinium-228	30.48	U	32.15	58.49	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	14913-49-6	Bismuth-212	4.05	U	65.32	118.10	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	14733-03-0	Bismuth-214	31.21	J	27.62	40.33	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	10045-97-3	Cesium-137	0.58	U	9.76	16.61	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	10198-40-0	Cobalt-60	-4.55	U	9.57	13.36	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	12587-46-1	Gross Alpha	18.89	J	11.49	10.91	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	12587-47-2	Gross Beta	88.23		10.60	8.93	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	15092-94-1	Lead-212	11.95	U	21.38	19.63	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	15067-28-4	Lead-214	21.74	J	20.12	27.06	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	15100-28-4	Protactinium-234m	-1485.00	U	1162.00	1532.00	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/30/01	13982-63-3	Radium-226	1.59		0.62	0.51	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	02/13/01	15262-20-1	Radium-228	1.16	J	0.93	0.99	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	14913-50-9	Thallium-208	-5.05	U	28.36	45.55	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	02/11/01	14274-82-9	Thorium-228	-0.03	U	0.19	0.68	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	02/11/01	14269-63-7	Thorium-230	0.49	U	0.53	0.93	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	02/11/01	7440-29-1	Thorium-232	0.57	J	0.50	0.65	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	01/29/01	15065-10-8	Thorium-234	35.06	U	131.00	218.80	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	02/07/01	NS632	Uranium-234	10.14		2.94	0.97	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	02/07/01	15117-96-1	Uranium-235	0.57	U	0.61	0.86	pCi/l
Seaway Landfill Leachate	0101169-04	01/25/01	02/07/01	24678-82-8	Uranium-238	10.61		3.04	0.99	pCi/l

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601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

FrankStevenson
S.A.I.C
101 East Grove Street
Middleboro, MA 02346

SDG: 0101169
Date Received: 1/26/2001
Matrix: Water

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	14331-83-0	Actinium-228	-9.01	U	26.78	42.89	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	14913-49-6	Bismuth-212	28.89	U	59.70	99.89	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	14733-03-0	Bismuth-214	15.35	U	27.37	31.37	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	10045-97-3	Cesium-137	0.41	U	7.79	12.93	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	10198-40-0	Cobalt-60	3.56	U	6.36	11.99	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/29/01	12587-46-1	Gross Alpha	17.17		7.86	7.09	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/29/01	12587-47-2	Gross Beta	68.31		9.73	8.34	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	15092-94-1	Lead-212	0.22	U	18.89	16.57	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	15067-28-4	Lead-214	17.82	J	17.70	22.69	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	15100-28-4	Protactinium-234m	139.10	U	849.40	1463.00	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	13982-63-3	Radium-226	1.89		0.64	0.53	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	02/13/01	15262-20-1	Radium-228	0.51	U	0.80	0.87	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	14913-50-9	Thallium-208	9.34	U	23.49	32.56	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	02/11/01	14274-82-9	Thorium-228	0.20	U	0.31	0.56	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	02/11/01	14269-63-7	Thorium-230	0.90	J	0.68	0.99	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	02/11/01	7440-29-1	Thorium-232	0.07	U	0.26	0.67	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	01/30/01	15065-10-8	Thorium-234	7.64	U	133.30	164.20	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	02/07/01	NS632	Uranium-234	8.91		2.76	1.08	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	02/07/01	15117-96-1	Uranium-235	0.21	U	0.42	0.86	pCi/l
Seaway Landfill Leachate DUP	0101169-05	01/25/01	02/07/01	24678-82-8	Uranium-238	9.80		2.95	1.08	pCi/l

EBERLINE SERVICES
Oak Ridge Laboratory
601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

April 7, 2001

Field Report and Analytical Results

FIELD REPORT

LEACHATE SAMPLING
SEAWAY LANDFILL
TONAWANDA, NEW YORK

APRIL 2001

PREPARED FOR:

SAIC, INC.
101 EAST GROVE STREET
MIDDLEBORO, MASSACHUSETTS 02346
ATTENTION: [redacted]

PREPARED BY:

ENVIRONMENTAL SAMPLING & SERVICES, INC.
7183 BALLA DRIVE
NORTH TONAWANDA, NEW YORK 14120

1.0 INTRODUCTION

This report describes the sampling of the leachate discharge metering manhole at the Seaway Landfill located in Tonawanda, New York. Environmental Sampling & Services, Inc. (ES&S) personnel performed the sampling on April 6, 2001.

2.0 EQUIPMENT CALIBRATION

Prior to mobilization, all field equipment and instrumentation were checked for condition and calibration.

- pH meter was two-point calibrated with 7.00 S.U. and 10.00 S.U. buffer solutions.

- Conductivity meter was three-point calibrated with 101.8, 1002 and 9320 umhos/cm buffer solutions.

- Turbidity meter was two-point calibrated with 5.0 NTU and 20.0 NTU standards.

4.0 SAMPLE CONTAINER PREPARATION

All containers used in the collection of samples for this project were provided new and clean from ThermoRetec Laboratories. These bottles were shipped to ES&S and stored in a clean environment prior to their use.

5.0 LEACHATE SAMPLE COLLECTION

Leachate samples were collected as a grab sample directly from the metering manhole discharge flume using an ISCO Model 1580 peristaltic pump with dedicated silicone rubber pump hose and polyethylene tubing. Sample containers were filled directly from the ISCO peristallic pump discharge tube. An additional sample was taken to facilitate measurement of field analytical parameters.

6.0 FIELD MEASUREMENT

On site field measurements include pH, specific conductivity, temperature, eH, and turbidity. This data is presented on the Field Observation Forms.

7.0 FIELD DUPLICATE

A field duplicate was collected at a frequency of one (1) per sampling event. The field duplicate consisted of a set of all parameters and field measurements, and was obtained immediately after the original sample.

8.0 CHAIN OF CUSTODY

A chain of custody manifest was initiated at the time of sample collection and accompanied the samples through delivery to Eberline Laboratories in Oak Ridge, Tennesee.

SEAWAY LANDFILL - METERING MANHOLE **FIELD OBSERVATION DATA**

SAMPLING INFORMATION

TYPE OF SAMPLE: (X) GRAB ( ) 24 HOUR COMPOSITE

DATE / TIME 4 - 6 - 01 / 8:05 SAMPLED BY [redacted] DO

FIELD MEASUREMENT INFORMATION

pH (STANDARD UNITS)		SPECIFIC CONDUCTANCE (UMHOS/CM)	
DATE	4 - 6 - 01	DATE	4 - 6 - 01
TIME	8:08	TIME	8:08
TAKEN BY	[redacted]	TAKEN BY	[redacted]
UNIT-BRAND	BECKMAN	UNIT-BRAND	FISHER SCIENTIFIC
MODEL #	pH I 11	MODEL #	09 - 326 - 2
STANDARDS USED:	( ) 4 (X) 7 (X) 10	STANDARDS USED:	(X) 102.8 (X) 1002 (X) 9975
TEMPERATURE (C)	8.9	TEMPERATURE (C)	8.9
pH	6.92 (SU)	SPECIFIC CONDUCTANCE	3940 ushos/cm
eH	+16.3 mV	TURBIDITY	15.00 NTU

SAMPLE CHARACTERISTICS: CLEAR - TAN TINT

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 45 F

DISCHARGE - TOTALIZER: 4358987

COMMENTS:

SEAWAY LANDFILL - METERING MANHOLE **FIELD OBSERVATION DATA**

SAMPLING INFORMATION

TYPE OF SAMPLE: (X) GRAB ( ) 24 HOUR COMPOSITE

DATE / TIME 4 - 6 - 01 / 8:10 (DUP) SAMPLED BY [redacted]

FIELD MEASUREMENT INFORMATION

pH (STANDARD UNITS)		SPECIFIC CONDUCTANCE (UMHOS/CM)	
DATE	4 - 6 - 01	DATE	4 - 6 - 01
TIME	8:12	TIME	8:12
TAKEN BY	[redacted]	TAKEN BY	[redacted]
UNIT-BRAND	BECKMAN	UNIT-BRAND	FISHER SCIENTIFIC
MODEL #	pH I 11	MODEL #	09 - 326 - 2
STANDARDS USED:	( ) 4 (X) 7 (X) 10	STANDARDS USED:	(X) 102.8 (X) 1002 (X) 9975
TEMPERATURE (C)	8.7	TEMPERATURE (C)	8.7
pH	6.86 (SU)	SPECIFIC CONDUCTANCE	3890 ushos/cm
eH	+19.8 mV	TURBIDITY	16.50 NTU

SAMPLE CHARACTERISTICS: CLEAR - TAN TINT

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 45 F

DISCHARGE - TOTALIZER: 4358997

COMMENTS: DUPLICATE SAMPLE

SAIC

Seaway Landfill

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #01-04046-OR

April 30, 2001

EBERLINE SERVICES/OAK RIDGE LABORATORY
OAK RIDGE, TN

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

Oak Ridge Laboratory
601 Scarboro Road
Oak Ridge, TN 37830
Phone (865) 481-0683
Fax (865) 483-4621

EBS-OR-15021

April 30, 2001

[redacted]
SAIC
101 East Grove Street
Middleboro, MA 02346

CASE NARRATIVE
Work Order # 01-04046-OR

SAMPLE RECEIPT

This work order contains two water samples received 04/07/01. Both samples were analyzed for Isotopic Uranium, Isotopic Thorium, Radium-226/228, Gross Alpha/Beta and by Gamma Spectroscopy.

CLIENT ID	LAB ID	CLIENT ID	LAB ID
Seaway LF Leachate	01-04046-04	Seaway LF Leachate DUP	01-04046-05

The file name for these samples is 0104046.xls.

ANALYTICAL METHODS

Isotopic Uranium was analyzed using Method EML U-02 modified. Isotopic Thorium was analyzed using Method EML Th-01 modified. Radium-226 was analyzed using EPA Method 903.0 modified. Radium-228 was analyzed using EPA Method 904.0 modified. Gross Alpha/Beta was performed by gas-flow proportional counting using EPA Method 900.0 modified. Gamma Spectroscopy was performed using EPA Method 901.1 modified.

SPECIAL PROBLEMS OR UNUSUAL CIRCUMSTANCES

GENERAL CONSIDERATIONS

Because of the high levels of dissolved solids in these samples, the sample aliquots were reduced from the volume normally used. Because of this reduction in volume, the detection limits seen in some cases will be higher than those normally seen for these analyses. The activity levels are still well below regulatory limits and the contract required detection limits.

ISOTOPIC URANIUM

Samples demonstrated levels of what appears to be natural Uranium (based on the ^{234}U / ^{238}U ratio) that were slightly elevated above the sample specific detection limit. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard and the replicate both had acceptable (≤2.58) normalized differences. There were no significant problems associated with the analysis of these samples.

SPECIAL PROBLEMS OR UNUSUAL CIRCUMSTANCES CONTINUED

ISOTOPIC THORIUM

Because of poor chemical recovery, all of the samples were reanalyzed once. Samples demonstrated levels of ^{228}Thorium, ^{230}Thorium, and ^{232}Thorium which were all less than the sample specific detection limit. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard and the replicate both had acceptable (≤2.58) normalized differences with the exception of the ^{230}Thorium replicate. This replicate pair had an elevated normalized difference but this was a moot point since both results were less than their associated sample detection limit. There were no significant problems associated with the analysis of these samples.

RADIUM-226

Samples demonstrated ^{226}Radium results that ranged from less than to slightly elevated above the sample specific detection limit. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard and the replicate both had acceptable (≤2.58) normalized differences. There were no significant problems associated with the analysis of these samples.

RADIUM-228

Samples demonstrated levels of activity which ranged from less than to very slightly elevated above the sample specific detection limit. The chemical recovery was acceptable for all samples (>20%). The laboratory control standard and the replicate both had acceptable (≤2.58) normalized differences. There were no significant problems associated with the analysis of these samples.

GROSS ALPHA/BETA

The Alpha and Beta analysis results were slightly elevated above the sample specific detection limit. The normalized difference was elevated for the laboratory control standard for both the Alpha and Beta analysis. The recoveries (115.9% - Alpha, 108.71% - Beta) were well within the normally accepted limits for this analysis. The normalized difference for the replicate analysis was acceptable (≤2.58) for both the Alpha and Beta analysis. There were no significant problems associated with this analysis.

GAMMA SPECTRAL ANALYSIS

At the client's request the results for ^{60}Cobalt, ^{137}Cesium, ^{228}Actinium, ^{212}Bismuth, ^{214}Bismuth, ^{212}Lead, ^{214}Lead, ^{234m}Protactinium, ^{208}Thallium, ^{234}Thorium and all valid positive peaks were reported from the gamma spectral analysis. The results for the listed isotopes ranged from less than to statistically equal to the sample specific detection limit. The normalized difference comparison gave acceptable (≤2.58) results for both the laboratory control standard and the replicate. There were no problems associated with the analysis of these samples.

CERTIFICATION OF ACCURACY

I certify that this data report is in compliance with the terms and conditions of the Purchase Order, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package and electronic data deliverable has been authorized by the cognizant project manager or his/her designee to be accurate as verified by the following signature.

[redacted]

Laboratory Manager

Date: 4/30/2001

00019

SECTION IV

ANALYTICAL RESULTS SUMMARY

[redacted]
SAIC
101 East Grove Street
Middleboro, MA 02346

SDG: 0104046
Date Received: 04/07/01
Matrix: Water

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
LCST	0104046-01	4/7/2001	4/23/2001	10045-97-3	Cesium-137	121227.78		5697.71	597.40	pCi/l
LCST	0104046-01	4/7/2001	4/23/2001	10198-40-0	Cobalt-60	190756.57		9346.59	679.00	pCi/l
LCST	0104046-01	4/7/2001	4/12/2001	12587-46-1	Gross Alpha	214.13		9.21	0.50	pCi/l
LCST	0104046-01	4/7/2001	4/12/2001	12587-47-2	Gross Beta	199.05		4.18	1.16	pCi/l
LCST	0104046-01	4/7/2001	4/16/2001	13982-63-3	Radium-226	10.16		0.47	0.13	pCi/l
LCST	0104046-01	4/7/2001	4/24/2001	15262-20-1	Radium-228	6.52		0.36	0.78	pCi/l
LCST	0104046-01	4/7/2001	4/23/2001	14274-82-9	Thorium-228	4.67		0.17	0.15	pCi/l
LCST	0104046-01	4/7/2001	4/23/2001	14269-63-7	Thorium-230	5.36		0.14	0.19	pCi/l
LCST	0104046-01	4/7/2001	4/23/2001	7440-29-1	Thorium-232	4.67		0.17	0.16	pCi/l
LCST	0104046-01	4/7/2001	4/16/2001	13966-29-5	Uranium-234	7.98		0.29	0.31	pCi/l
LCST	0104046-01	4/7/2001	4/16/2001	15117-96-1	Uranium-235	0.36		0.01	0.15	pCi/l
LCST	0104046-01	4/7/2001	4/16/2001	7440-61-1	Uranium-238	7.78		0.28	0.16	pCi/l
LCSF	0104046-01	4/7/2001	4/23/2001	10045-97-3	Cesium-137	128000.00		13690.00	597.40	pCi/l
LCSF	0104046-01	4/7/2001	4/23/2001	10198-40-0	Cobalt-60	192800.00		14510.00	679.00	pCi/l
LCSF	0104046-01	4/7/2001	4/12/2001	12587-46-1	Gross Alpha	248.17		7.55	0.50	pCi/l
LCSF	0104046-01	4/7/2001	4/12/2001	12587-47-2	Gross Beta	216.38		6.05	1.16	pCi/l
LCSF	0104046-01	4/7/2001	4/16/2001	13982-63-3	Radium-226	9.95		1.17	0.13	pCi/l
LCSF	0104046-01	4/7/2001	4/24/2001	15262-20-1	Radium-228	6.09		0.89	0.78	pCi/l
LCSF	0104046-01	4/7/2001	4/23/2001	14274-82-9	Thorium-228	4.71		1.08	0.15	pCi/l
LCSF	0104046-01	4/7/2001	4/23/2001	14269-63-7	Thorium-230	6.03		1.34	0.19	pCi/l
LCSF	0104046-01	4/7/2001	4/23/2001	7440-29-1	Thorium-232	4.98		1.14	0.16	pCi/l
LCSF	0104046-01	4/7/2001	4/16/2001	13966-29-5	Uranium-234	8.69		1.85	0.31	pCi/l
LCSF	0104046-01	4/7/2001	4/16/2001	15117-96-1	Uranium-235	0.33	J	0.20	0.15	pCi/l
LCSF	0104046-01	4/7/2001	4/16/2001	7440-61-1	Uranium-238	7.75		1.67	0.16	pCi/l

00021

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
BLANK	0104046-02	4/7/2001	4/24/2001		Actinium-228	3.08	U	18.21	27.25	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	14913-49-6	Bismuth-212	-5.92	U	43.04	57.90	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	7440-69-9	Bismuth-214	-12.42	U	12.58	15.47	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	10045-97-3	Cesium-137	-1.04	U	5.39	7.66	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	10198-40-0	Cobalt-60	1.94	U	4.79	7.72	pCi/l
BLANK	0104046-02	4/7/2001	4/12/2001	12587-46-1	Gross Alpha	0.21	U	0.32	0.61	pCi/l
BLANK	0104046-02	4/7/2001	4/12/2001	12587-47-2	Gross Beta	-0.10	U	0.45	0.98	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	15092-94-1	Lead-212	21.40	J	12.11	10.52	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001		Lead-214	-9.54	U	9.73	14.65	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001		Protactinium-234m	-202.90	U	674.50	837.90	pCi/l
BLANK	0104046-02	4/7/2001	4/16/2001	13982-63-3	Radium-226	0.12	U	0.14	0.31	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	15262-20-1	Radium-228	-0.43	U	0.88	1.00	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	7440-28-0	Thallium-208	8.82	U	17.00	20.34	pCi/l
BLANK	0104046-02	4/7/2001	4/23/2001	14274-82-9	Thorium-228	0.03	U	0.07	0.16	pCi/l
BLANK	0104046-02	4/7/2001	4/23/2001	14269-63-7	Thorium-230	0.04	U	0.11	0.24	pCi/l
BLANK	0104046-02	4/7/2001	4/23/2001	7440-29-1	Thorium-232	0.05	U	0.09	0.20	pCi/l
BLANK	0104046-02	4/7/2001	4/24/2001	15065-10-8	Thorium-234	122.90	J	89.74	128.50	pCi/l
BLANK	0104046-02	4/7/2001	4/16/2001	13966-29-5	Uranium-234	0.18	J	0.15	0.21	pCi/l
BLANK	0104046-02	4/7/2001	4/16/2001	15117-96-1	Uranium-235	0.04	U	0.08	0.17	pCi/l
BLANK	0104046-02	4/7/2001	4/16/2001	7440-61-1	Uranium-238	0.03	U	0.08	0.20	pCi/l

00022

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001		Actinium-228	21.74	U	34.53	39.32	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001	14913-49-6	Bismuth-212	47.73	J	46.28	85.78	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001	7440-69-9	Bismuth-214	1.10	U	18.16	19.99	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001	10045-97-3	Cesium-137	-3.31	U	5.47	9.28	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001	10198-40-0	Cobalt-60	7.67	J	6.29	10.59	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/12/2001	12587-46-1	Gross Alpha	39.23		10.76	8.30	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/12/2001	12587-47-2	Gross Beta	87.20		11.73	10.21	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001	15092-94-1	Lead-212	3.05	U	12.36	11.73	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001		Lead-214	0.91	U	16.39	18.64	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001		Protactinium-234m	295.40	U	635.40	1156.00	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/16/2001	13982-63-3	Radium-226	1.58		0.65	0.60	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/24/2001	15262-20-1	Radium-228	1.49	J	1.34	1.43	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001	7440-28-0	Thallium-208	13.43	U	21.18	26.99	pCi/l
Seaway LF Leachate DUP D	0104046-03	4/6/2001	4/23/2001	14274-82-9	Thorium-228	0.52	J	0.43	0.41	pCi/l
Seaway LF Leachate DUP D	0104046-03	4/6/2001	4/23/2001	14269-63-7	Thorium-230	-0.27	U	0.13	0.88	pCi/l
Seaway LF Leachate DUP D	0104046-03	4/6/2001	4/23/2001	7440-29-1	Thorium-232	0.09	U	0.22	0.53	pCi/l
Seaway LF Leachate D	0104046-03	4/6/2001	4/23/2001	15065-10-8	Thorium-234	90.85	U	99.91	104.10	pCi/l
Seaway LF Leachate DUP D	0104046-03	4/6/2001	4/16/2001	13966-29-5	Uranium-234	11.02		2.73	0.53	pCi/l
Seaway LF Leachate DUP D	0104046-03	4/6/2001	4/16/2001	15117-96-1	Uranium-235	0.63	J	0.45	0.39	pCi/l
Seaway LF Leachate DUP D	0104046-03	4/6/2001	4/16/2001	7440-61-1	Uranium-238	12.80		3.09	0.51	pCi/l

00023

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001		Actinium-228	9.17	U	22.22	36.44	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	14913-49-6	Bismuth-212	13.09	U	42.79	76.92	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	7440-69-9	Bismuth-214	-13.92	U	13.60	18.43	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	10045-97-3	Cesium-137	1.69	U	5.81	10.42	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	10198-40-0	Cobalt-60	3.88	U	5.28	10.06	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/12/2001	12587-46-1	Gross Alpha	20.12	J	12.00	11.37	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/12/2001	12587-47-2	Gross Beta	91.72		10.30	8.46	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	15092-94-1	Lead-212	-5.81	U	10.64	14.22	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001		Lead-214	0.96	U	13.45	19.04	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001		Protactinium-234m	465.70	U	588.20	1104.00	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/16/2001	13982-63-3	Radium-226	2.78		0.90	0.82	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/24/2001	15262-20-1	Radium-228	3.02		1.43	1.47	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	7440-28-0	Thallium-208	3.66	U	29.38	29.54	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	14274-82-9	Thorium-228	0.01	U	0.16	0.51	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	14269-63-7	Thorium-230	0.17	U	0.31	0.64	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	7440-29-1	Thorium-232	0.15	U	0.26	0.54	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/23/2001	15065-10-8	Thorium-234	134.30	J	102.00	108.40	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/16/2001	13966-29-5	Uranium-234	8.40		2.10	0.46	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/16/2001	15117-96-1	Uranium-235	0.42	J	0.35	0.39	pCi/l
Seaway LF Leachate	0104046-04	4/6/2001	4/16/2001	7440-61-1	Uranium-238	9.63		2.35	0.42	pCi/l

EBERLINE SERVICES
Oak Ridge Laboratory
601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001		Actinium-228	8.13	U	18.60	28.51	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	14913-49-6	Bismuth-212	19.07	U	43.86	55.83	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	7440-69-9	Bismuth-214	-12.12	U	12.65	15.67	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	10045-97-3	Cesium-137	-0.76	U	5.50	7.90	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	10198-40-0	Cobalt-60	3.81	U	4.34	8.02	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/12/2001	12587-46-1	Gross Alpha	35.42		9.23	7.00	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/12/2001	12587-47-2	Gross Beta	97.23		9.88	7.88	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	15092-94-1	Lead-212	7.40	U	11.99	10.65	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001		Lead-214	24.80	J	18.80	15.87	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001		Protactinium-234m	-135.30	U	657.10	883.10	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/16/2001	13982-63-3	Radium-226	4.51		1.45	1.35	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/24/2001	15262-20-1	Radium-228	3.22	J	2.03	2.13	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	7440-28-0	Thallium-208	17.93	J	17.51	19.90	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	14274-82-9	Thorium-228	0.00	U	0.15	0.50	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	14269-63-7	Thorium-230	0.52	J	0.44	0.64	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	7440-29-1	Thorium-232	0.00	U	0.20	0.63	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/23/2001	15065-10-8	Thorium-234	97.95	J	94.07	102.70	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/16/2001	13966-29-5	Uranium-234	11.08		2.52	0.40	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/16/2001	15117-96-1	Uranium-235	0.21	U	0.25	0.37	pCi/l
Seaway LF Leachate DUP	0104046-05	4/6/2001	4/16/2001	7440-61-1	Uranium-238	11.59		2.61	0.36	pCi/l

00025

July 24, 2001

Field Report and Analytical Results

FIELD REPORT

LEACHATE SAMPLING
SEAWAY LANDFILL
TONAWANDA, NEW YORK

JULY 2001

PREPARED FOR:

SAIC, INC.
10 MAIN STREET
LAKEVILLE, MASSACHUSETTS 02347
ATTENTION: [redacted]

PREPARED BY:

ENVIRONMENTAL SAMPLING & SERVICES, INC.
7183 BALLA DRIVE
NORTH TONAWANDA, NEW YORK 14120

1.0 INTRODUCTION

This report describes the sampling of the leachate discharge metering manhole at the Seaway Landfill located in Tonawanda, New York. Environmental Sampling & Services, Inc. (ES&S) personnel performed the sampling on July 24, 2001.

2.0 EQUIPMENT CALIBRATION

Prior to mobilization, all field equipment and instrumentation were checked for condition and calibration.

- pH meter was two-point calibrated with 7.00 S.U. and 10.00 S.U. buffer solutions.
- Conductivity meter was three-point calibrated with 101.8, 1002 and 9320 umhos/cm buffer solutions.
- Turbidity meter was two-point calibrated with 5.0 NTU and 20.0 NTU standards.

4.0 SAMPLE CONTAINER PREPARATION

All containers used in the collection of samples for this project were provided new and clean from ThermoRetec Laboratories. These bottles were shipped to ES&S and stored in a clean environment prior to their use.

5.0 LEACHATE SAMPLE COLLECTION

Leachate samples were collected as a grab sample directly from the metering manhole discharge flume using an ISCO Model 1580 peristaltic pump with dedicated silicone rubber pump hose and polyethylene tubing. Sample containers were filled directly from the ISCO peristallic pump discharge tube. An additional sample was taken to facilitate measurement of field analytical parameters.

6.0 FIELD MEASUREMENT

On site field measurements include pH, specific conductivity, temperature, eH, and turbidity. This data is presented on the Field Observation Forms.

7.0 FIELD DUPLICATE

A field duplicate was collected at a frequency of one (1) per sampling event. The field duplicate consisted of a set of all parameters and field measurements, and was obtained immediately after the original sample.

8.0 CHAIN OF CUSTODY

A chain of custody manifest was initiated at the time of sample collection and accompanied the samples through delivery to Eberline Laboratories in Oak Ridge, Tennesee.

SEAWAY LANDFILL - METERING MANHOLE **FIELD OBSERVATION DATA**

SAMPLING INFORMATION

TYPE OF SAMPLE: (X) GRAB ( ) 24 HOUR COMPOSITE

DATE / TIME 7 - 24 - 01 / 8:00 SAMPLED BY [redacted]

FIELD MEASUREMENT INFORMATION

pH (STANDARD UNITS)

DATE 7 - 24 - 01

TIME 8:04

TAKEN BY [redacted]

UNIT-BRAND BECKMAN

MODEL # pH I 11

STANDARDS USED: ( ) 4
(X) 7
(X) 10

TEMPERATURE (C) 19.7

pH 6.93 (SU)

eH +15.9 mV

SPECIFIC CONDUCTANCE (UMHOS/CM)

DATE 7 - 24 - 01

TIME 8:04

TAKEN BY [redacted]

UNIT-BRAND FISHER SCIENTIFIC

MODEL # 09 - 326 - 2

STANDARDS USED: (X) 102.8
(X) 1002
(X) 9975

TEMPERATURE (C) 19.7

SPECIFIC CONDUCTANCE 6200 ushos/cm

TURBIDITY 42.80 NTU

SAMPLE CHARACTERISTICS: CLEAR - TAN TINT

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 80 F

DISCHARGE - TOTALIZER: 1401800

COMMENTS:

SEAWAY LANDFILL - METERING MANHOLE **FIELD OBSERVATION DATA**

SAMPLING INFORMATION

TYPE OF SAMPLE: (X) GRAB ( ) 24 HOUR COMPOSITE

DATE / TIME 7 - 24 - 01 / 8:10 (DUP) SAMPLED BY [redacted]

FIELD MEASUREMENT INFORMATION

pH (STANDARD UNITS)		SPECIFIC CONDUCTANCE (UMHOS/CM)	
DATE	7 - 24 - 01	DATE	7 - 24 - 01
TIME	8:13	TIME	8:13
TAKEN BY	[redacted]	TAKEN BY	[redacted]
UNIT-BRAND	BECKMAN	UNIT-BRAND	FISHER SCIENTIFIC
MODEL #	pH I 11	MODEL #	09 - 326 - 2
STANDARDS USED:	( ) 4 (X) 7 (X) 10	STANDARDS USED:	(X) 102.8 (X) 1002 (X) 9975
TEMPERATURE (C)	19.6	TEMPERATURE (C)	19.6
pH	6.90 (SU)	SPECIFIC CONDUCTANCE	6300 ushos/cm
eH	+15.1 mV	TURBIDITY	36.60 NTU

SAMPLE CHARACTERISTICS: CLEAR - TAN TINT

WEATHER CONDITIONS AT TIME OF SAMPLING: CLOUDY, 80 F

DISCHARGE - TOTALIZER: 1401860

COMMENTS: DUPLICATE SAMPLE

801.20011011.014

S.A.I.C.

Seaway Landfill

STANDARD LEVEL IV
REPORT OF ANALYSIS

WORK ORDER #01-07123-OR

August 15, 2001

EBERLINE SERVICES/OAK RIDGE LABORATORY
OAK RIDGE, TN

SECTION III

CASE NARRATIVE

EBERLINE SERVICES

Oak Ridge Laboratory
601 Scarboro Road
Oak Ridge, TN 37830
Phone (865) 481-0683
Fax (865) 483-4621

EBS-OR-15673

August 15, 2001

[redacted]
Science Applications International Corporation
101 East Grove Street
Middleboro, MA 02346

CASE NARRATIVE
Work Order #01-07123-OR

SAMPLE RECEIPT

This work order contains two water samples received 7/26/2001. Both samples were analyzed for Gross Alpha/Beta, Radium-226/228, Isotopic Thorium, Isotopic Uranium and by Gamma Spectroscopy.

CLIENT ID	LAB ID
Seaway Leachate	01-07123-04
Seaway Leachate Duplicate	01-07123-05

The file name for these samples is 0107123.XLS.

ANALYTICAL METHODS

Gross Alpha/Beta was performed by gas flow proportional counting using EPA Method 900.0 Modified. Radium-226 was analyzed using EPA Method 903.0 modified. Radium-228 was analyzed using EPA Method 904.0 Modified. Isotopic Thorium was analyzed using Method EML Th-01 modified. Isotopic Uranium was analyzed using Method EML U-02 modified. Gamma Spectroscopy was performed using EPA Method 901.1 Modified.

ANALYTICAL DATA

ISOTOPIC URANIUM

The samples contained in the work order showed levels of Uranium that ranged from less than to greater than the sample detection limit. The chemical recoveries were acceptable. The laboratory control sample results demonstrated acceptable normalized differences and percent recoveries for the Uranium-234 and Uranium-238 isotopes. The laboratory control sample result for Uranium-235 demonstrated a low percent recovery; however, the normalized difference was within acceptable limits. The blank sample results were below the sample detection limits. The replicate sample results for Uranium-234 demonstrated an acceptable relative percent difference and normalized difference. The relative percent differences were elevated for the Uranium-235 and Uranium-238 isotopes; however, both of the normalized differences were within acceptable limits.

ANALYTICAL DATA CONTINUED

ISOTOPIC THORIUM

The sample results demonstrated Thorium-228, Thorium-230 and Thorium-232 activities that were less than or equivalent to the sample detection limits. The chemical recoveries were acceptable. The laboratory control sample results demonstrated acceptable percent recoveries and normalized differences. The blank sample results were below the sample detection limits. The replicate sample results for Thorium-228 and Thorium-232 demonstrated elevated relative percent differences; however, both of the normalized differences were within acceptable limits. The replicate sample result for Thorium-230 demonstrated an acceptable relative percent difference and normalized difference.

RADIUM-226

The sample results demonstrated activity above the sample detection limits. The chemical recoveries were acceptable. The laboratory control sample result demonstrated an acceptable percent recovery and a normalized difference. The blank sample result was below the sample detection limit. The replicate sample result demonstrated an acceptable relative percent difference and normalized difference.

RADIUM-228

The sample results demonstrated Radium-228 activity that ranged from less than to elevated above the sample detection limits. The chemical recoveries were acceptable. The laboratory control sample result demonstrated an elevated normalized difference; however, the percent recovery was acceptable. The blank sample result was above the sample detection limit. The client may wish to qualify the associated results as appropriate. The replicate sample result demonstrated an elevated relative percent difference; however, the normalized difference was within acceptable limits.

GROSS ALPHA/BETA

Some or all of the samples in this work order had detection limits that were higher than normally seen for this analysis. This situation was the result of the high level of suspended and/or dissolved solids present in the samples. Based on the maximum energies of alpha particles, it is only practical to self-absorption correct samples up to a final deposited mass of about 120 milligrams on a two-inch planchet (EPA Method 900.0). In order to stay within this calibration limit, it was necessary to use aliquots for these samples that were substantially reduced from those normally used in this determination. Additionally, the high deposited mass required the use of a significant self-absorption factor in the calculation of the results, uncertainties, and detection limits. These two factors resulted in elevation of the detection limits above what is normally seen for this analysis. Though the detection limits could be lowered through longer counting times, the inverse-square relationship between count time and detection limits (a four times longer count to lower the detection limit by half) dictates that impractically long count times would be required to produce "normal" detection limits. We feel that the data as presented represents the best compromise between the desired detection limits and the problems inherent in the sample matrix.

ANALYTICAL DATA CONTINUED

GROSS ALPHA/BETA continued

All samples were reanalyzed once due to a failure of the QA/QC samples. The sample results for Gross Alpha were less than the sample detection limits. The samples result for Gross Beta were elevated above the sample detection limits. The laboratory control sample results for Gross Alpha/Beta demonstrated acceptable percent recoveries and normalized differences. The blank results were below the sample detection limits. The replicate sample result for Gross Alpha demonstrated an elevated relative percent difference; however, the normalized difference was within acceptable limits. The replicate sample result for Gross Beta demonstrated an acceptable relative percent difference and normalized difference.

GAMMA SPECTROSCOPY

The client requested that Cobalt-60, Cesium-137, Actinium-227, Bismuth-212/214, Lead-212/214 Protactinium-234m, Thallium-208, Thorium-234, members of the Thorium and Uranium decay chain, along with any valid positive peaks be reported from the gamma spectral analysis. The sample results were less than the sample detection limits with the exception of the result for Bismuth-214 from sample fraction –05 (client # Seaway Leachate Duplicate) which was slightly elevated above its detection limit. The laboratory control sample results demonstrated acceptable percent recoveries and normalized differences. The blank sample results were acceptable. The replicate sample result demonstrated an elevated relative percent difference; however, the normalized difference was within acceptable limits.

CERTIFICATION OF ACCURACY

The laboratory certifies that all methods and performance criteria used were those described in the Statement of Work (SOW) and QAPjP developed by SAIC specifically for this project. Furthermore, that all data outside the project performance criteria has been approved by the SAIC QAO for this project and that he has received a satisfactory (as determined by SAIC) explanation. The laboratory also certifies that the diskette deliverables (electronic data transmissions) submitted with each written data package is an exact copy of the data submitted on paper and that no discrepancies exist between the two.

[redacted]

Laboratory Manager

Date: 08/15/01

00019

SECTION IV

ANALYTICAL RESULTS SUMMARY

[redacted]
S.A.I.C
101 East Grove Street
Middleboro, MA 02346

SDG: 0107123
Date Received: 7/26/2001
Matrix: Water

Final Report of Analysis
Date: 08/14/01

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
LCST	0107123-01	07/26/01	07/27/01	10045-97-3	Cesium-137	121227.78		5697.71	561.60	pCi/l
LCST	0107123-01	07/26/01	07/27/01	10198-40-0	Cobalt-60	190756.57		9346.59	646.30	pCi/l
LCST	0107123-01	07/26/01	07/27/01	12587-46-1	Gross Alpha	225.69		9.70	0.71	pCi/l
LCST	0107123-01	07/26/01	07/27/01	12587-47-2	Gross Beta	252.27		4.54	1.32	pCi/l
LCST	0107123-01	07/26/01	07/28/01	13982-63-3	Radium-226	10.13		0.47	0.19	pCi/l
LCST	0107123-01	07/26/01	08/08/01	15262-20-1	Radium-228	17.79		0.80	0.69	pCi/l
LCST	0107123-01	07/26/01	07/31/01	14274-82-9	Thorium-228	4.73		0.17	0.16	pCi/l
LCST	0107123-01	07/26/01	07/31/01	14269-63-7	Thorium-230	5.45		0.15	0.15	pCi/l
LCST	0107123-01	07/26/01	07/31/01	N2608	Thorium-232	4.73		0.17	0.17	pCi/l
LCST	0107123-01	07/26/01	07/31/01	NS632	Uranium-234	8.11		0.29	0.08	pCi/l
LCST	0107123-01	07/26/01	07/31/01	15117-96-1	Uranium-235	0.37		0.01	0.11	pCi/l
LCST	0107123-01	07/26/01	07/31/01	24678-82-8	Uranium-238	7.91		0.28	0.09	pCi/l
LCSF	0107123-01	07/26/01	07/27/01	10045-97-3	Cesium-137	128500.00		13730.00	561.60	pCi/l
LCSF	0107123-01	07/26/01	07/27/01	10198-40-0	Cobalt-60	194700.00		14660.00	646.30	pCi/l
LCSF	0107123-01	07/26/01	07/27/01	12587-46-1	Gross Alpha	224.12		7.56	0.71	pCi/l
LCSF	0107123-01	07/26/01	07/27/01	12587-47-2	Gross Beta	252.10		7.27	1.32	pCi/l
LCSF	0107123-01	07/26/01	07/28/01	13982-63-3	Radium-226	9.67		1.32	0.19	pCi/l
LCSF	0107123-01	07/26/01	08/08/01	15262-20-1	Radium-228	20.36		1.20	0.69	pCi/l
LCSF	0107123-01	07/26/01	07/31/01	14274-82-9	Thorium-228	5.00		1.20	0.16	pCi/l
LCSF	0107123-01	07/26/01	07/31/01	14269-63-7	Thorium-230	5.67		1.33	0.15	pCi/l
LCSF	0107123-01	07/26/01	07/31/01	N2608	Thorium-232	5.18		1.23	0.17	pCi/l
LCSF	0107123-01	07/26/01	07/31/01	NS632	Uranium-234	7.90		1.67	0.08	pCi/l
LCSF	0107123-01	07/26/01	07/31/01	15117-96-1	Uranium-235	0.24	J	0.15	0.11	pCi/l
LCSF	0107123-01	07/26/01	07/31/01	24678-82-8	Uranium-238	7.65		1.62	0.09	pCi/l

EBERLINE SERVICES
Oak Ridge Laboratory
601 Scarboro Road, Oak Ridge, TN 37830 865/481-0683 FAX 865/483-4621

[redacted]
S.A.I.C
101 East Grove Street
Middleboro, MA 02346

SDG: 0107123
Date Received: 7/26/2001
Matrix: Water

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
BLANK	0107123-02	07/26/01	07/26/01	14331-83-0	Actinium-228	0.93	U	21.63	26.18	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	14913-49-6	Bismuth-212	13.30	U	34.38	56.00	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	14733-03-0	Bismuth-214	-4.31	U	11.05	14.99	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	10045-97-3	Cesium-137	3.47	U	6.26	7.23	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	10198-40-0	Cobalt-60	1.60	U	3.85	7.04	pCi/l
BLANK	0107123-02	07/26/01	07/27/01	12587-46-1	Gross Alpha	0.07	U	0.30	0.71	pCi/l
BLANK	0107123-02	07/26/01	07/27/01	12587-47-2	Gross Beta	-0.51	U	0.55	1.31	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	15092-94-1	Lead-212	13.84	J	11.13	9.94	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	15067-28-4	Lead-214	-12.05	U	10.37	13.87	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	NS551	Protactinium-234m	492.00	U	651.10	750.10	pCi/l
BLANK	0107123-02	07/26/01	07/28/01	13982-63-3	Radium-226	0.01	U	0.07	0.22	pCi/l
BLANK	0107123-02	07/26/01	08/08/01	15262-20-1	Radium-228	2.10		0.70	0.69	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	14913-50-9	Thallium-208	0.26	U	15.61	23.09	pCi/l
BLANK	0107123-02	07/26/01	07/31/01	14274-82-9	Thorium-228	0.03	U	0.06	0.12	pCi/l
BLANK	0107123-02	07/26/01	07/31/01	14269-63-7	Thorium-230	0.01	U	0.08	0.20	pCi/l
BLANK	0107123-02	07/26/01	07/31/01	N2608	Thorium-232	0.03	U	0.06	0.12	pCi/l
BLANK	0107123-02	07/26/01	07/26/01	15065-10-8	Thorium-234	23.94	U	115.70	95.82	pCi/l
BLANK	0107123-02	07/26/01	07/31/01	NS632	Uranium-234	0.08	U	0.08	0.11	pCi/l
BLANK	0107123-02	07/26/01	07/31/01	15117-96-1	Uranium-235	0.00	U	0.01	0.10	pCi/l
BLANK	0107123-02	07/26/01	07/31/01	24678-82-8	Uranium-238	0.04	U	0.05	0.05	pCi/l

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101 East Grove Street
Middleboro, MA 02346

SDG: 0107123
Date Received: 7/26/2001
Matrix: Water

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	14331-83-0	Actinium-228	24.87	U	25.59	36.67	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	14913-49-6	Bismuth-212	-17.30	U	44.14	75.70	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	14733-03-0	Bismuth-214	27.54	J	19.36	24.17	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	10045-97-3	Cesium-137	0.95	U	7.59	10.64	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	10198-40-0	Cobalt-60	2.54	U	6.46	11.67	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/27/01	12587-46-1	Gross Alpha	8.48	U	13.72	14.06	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/27/01	12587-47-2	Gross Beta	73.45		16.56	15.11	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	15092-94-1	Lead-212	0.59	U	10.69	14.25	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	15067-28-4	Lead-214	-1.42	U	13.56	19.87	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	NS551	Protactinium-234m	-198.20	U	745.00	1109.00	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/28/01	13982-63-3	Radium-226	2.78		0.84	0.93	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	08/08/01	15262-20-1	Radium-228	2.80		0.99	0.99	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	14913-50-9	Thallium-208	28.56	J	19.82	26.85	pCi/l
Seaway Leachate DUP	0107123-03	07/24/01	07/26/01	15065-10-8	Thorium-234	98.48	J	96.85	105.00	pCi/l
Seaway Leachate Duplicate DUP	0107123-03	07/24/01	07/31/01	14274-82-9	Thorium-228	0.01	U	0.30	0.89	pCi/l
Seaway Leachate Duplicate DUP	0107123-03	07/24/01	07/31/01	14269-63-7	Thorium-230	0.65	J	0.58	0.80	pCi/l
Seaway Leachate Duplicate DUP	0107123-03	07/24/01	07/31/01	N2608	Thorium-232	0.06	U	0.36	0.97	pCi/l
Seaway Leachate Duplicate DUP	0107123-03	07/24/01	07/31/01	NS632	Uranium-234	1.47		0.77	0.64	pCi/l
Seaway Leachate Duplicate DUP	0107123-03	07/24/01	07/31/01	15117-96-1	Uranium-235	0.05	U	0.21	0.62	pCi/l
Seaway Leachate Duplicate DUP	0107123-03	07/24/01	07/31/01	24678-82-8	Uranium-238	1.77		0.84	0.50	pCi/l

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Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway Leachate	0107123-04	07/24/01	07/27/01	14331-83-0	Actinium-228	-5.63	U	19.33	33.28	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	14913-49-6	Bismuth-212	-14.91	U	43.69	75.21	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	14733-03-0	Bismuth-214	26.40	J	17.72	18.89	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	10045-97-3	Cesium-137	-2.26	U	7.75	10.66	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	10198-40-0	Cobalt-60	1.70	U	6.27	11.24	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/28/01	12587-46-1	Gross Alpha	5.59	U	15.10	15.76	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/28/01	12587-47-2	Gross Beta	79.50		16.81	15.25	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	15092-94-1	Lead-212	3.42	U	15.83	12.71	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	15067-28-4	Lead-214	9.35	U	15.31	18.06	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	NS551	Protactinium-234m	-161.50	U	755.60	1135.00	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/28/01	13982-63-3	Radium-226	2.62		0.74	0.69	pCi/l
Seaway Leachate	0107123-04	07/24/01	08/08/01	15262-20-1	Radium-228	1.76		0.70	0.71	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	14913-50-9	Thallium-208	24.23	J	19.25	25.75	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/31/01	14274-82-9	Thorium-228	0.38	U	0.40	0.62	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/31/01	14269-63-7	Thorium-230	0.56	J	0.49	0.72	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/31/01	N2608	Thorium-232	0.14	U	0.28	0.61	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/27/01	15065-10-8	Thorium-234	110.80	J	98.22	115.20	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/31/01	NS632	Uranium-234	3.42		1.27	0.48	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/31/01	15117-96-1	Uranium-235	0.22	U	0.31	0.30	pCi/l
Seaway Leachate	0107123-04	07/24/01	07/31/01	24678-82-8	Uranium-238	1.83		0.90	0.68	pCi/l

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SDG: 0107123
Date Received: 7/26/2001
Matrix: Water

Client ID	Lab ID	Sample Date	Analysis Date	CAS No.	Analyte	Result	Qual.	Error	MDA	Units
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	14331-83-0	Actinium-228	22.25	J	17.43	19.91	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	14913-49-6	Bismuth-212	8.10	U	35.79	51.25	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	14733-03-0	Bismuth-214	30.83		12.78	12.27	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	10045-97-3	Cesium-137	1.46	U	3.62	6.35	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	10198-40-0	Cobalt-60	0.02	U	3.74	6.41	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/28/01	12587-46-1	Gross Alpha	11.43	U	15.13	15.35	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/28/01	12587-47-2	Gross Beta	84.77		16.88	15.23	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	15092-94-1	Lead-212	-4.49	U	8.32	11.74	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	15067-28-4	Lead-214	13.17	J	10.65	11.98	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	NS551	Protactinium-234m	42.61	U	847.00	675.60	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/28/01	13982-63-3	Radium-226	3.31		0.85	0.36	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	08/08/01	15262-20-1	Radium-228	-0.94	U	0.87	0.98	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	14913-50-9	Thallium-208	-6.22	U	15.26	21.29	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/31/01	14274-82-9	Thorium-228	0.26	U	0.38	0.74	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/31/01	14269-63-7	Thorium-230	0.61	J	0.48	0.50	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/31/01	N2608	Thorium-232	0.18	U	0.29	0.57	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/26/01	15065-10-8	Thorium-234	23.47	U	124.50	105.60	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/31/01	NS632	Uranium-234	1.32	J	0.78	0.70	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/31/01	15117-96-1	Uranium-235	0.21	U	0.34	0.54	pCi/l
Seaway Leachate Duplicate	0107123-05	07/24/01	07/31/01	24678-82-8	Uranium-238	0.99	J	0.65	0.57	pCi/l

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Oak Ridge Laboratory
601 Scarboro Road, Oak Ridge TN 37830 865/481-0683 FAX 865/483-4621

EXHIBIT I

CHAIN-OF-CUSTODY DOCUMENTATION

EXHIBIT I

CHAIN-OF-CUSTODY DOCUMENTATION

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108127

Chain-of-Custody

Date 8-14-01 Page 1 of 1

Project Name / No.: _____ Turnaround Time: Standard or Rush (Due _____ (circle one) Dispose or Return to Client (circle one) Sampler [redacted]

Report To: [redacted]
Phone: [redacted]
Fax: 1-865-769-5313
Company: SAIC
Address: 2012 MARSHY SWAMP POINT, KNOXVILLE TN. 37932

Sample ID	Date	Time	Lab ID	Matrix *	No. of Containers	VOCs OLMO3.0 SW8260B E 624 E 524.2 (circle one)	Oil & Grease SW 9071A E413.2 (circle one)	BTEX (only) SW 8021B	Non-halogenated Organics GRO DRO SW 8015B (both) (circle one)	SVOCs OLMO3.0 SW8270C E 625 E 525 (circle one)	OC Pesticides OLMO3.0 SW 8081A E 608 E 508 (circle one)	PCBs OLMO3.0 SW 8082 E 608 E 508 (circle one)	OP Pesticides SW 8141A E 614 (circle one)	Herbicides SW 8151A E 615 (circle one)	TCLP Organics SW 1311 8260B 8270C 8081A 8151A (circle)	TCLP Metals ** SW 1311 6010B-7000 series	Total Metals ** ILMO4.0 SW 6010B-7000 series E 200 series (circle)	Dissolved Metals ** ILMO4.0 SW 6010B-7000 series E 200 series (circle)	Reactive CN / S SW Chapter 8.3	Hexavalent Chromium SW 7196A	Inorganic Anions ** SW 9056 E 300.0 (circle one)	TOX SW 9020B	Gross Alpha / Beta SW 9310 E 900.0	Actinides** PAISOP	Total Uranium PAISOP	Tritium (H3) E 906.0	Total Radium SW 9315 E 903.0	Gamma Isotopes ** (Specify method under comments)	Strontium ** (Specify method under comments)	pH SW 9040B / 9045C	OTHER RADIONUCLIDE AS PER SCOP		
SEA-COR-0000-SS-12-036-1	8-14-01	19:15	1	SS	1																		1		1		1	1				
SEA-COR-0000-SS-12-072-1	8-14-01	19:45	2	SS	1																		1		1		1	1				
SEA-COR-0000-SS-12-072-2	8-14-01	19:45	3	SS	1																		1		1		1	1				
SEA-COR-0000-SS-12-090-1	8-14-01	20:15		SS	4	2				1		1	1				1															
TEMP BLANK				H_2O	1																											

Comments:
(Example: Indicate if TICs are requested for GC/MS VOCs or SVOCs)
~~SA~~ DM AS PER Q.A.P. & S.A.P.

NOTE: 7 DAY TURNAROUND TIME ON RADS ONLY

Relinquished By: [redacted] (1)

Relinquished By: [redacted] (2)

Relinquished By: (3)
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

Received By: (3)
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

* (W) Water; (LQ) Non-aqueous liquid; (Soil) Soil; (NS) N[redacted]ow (Paragon); pink retained by originator.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted] 15 JP 8/14/01

WORKORDER NO: 0108127 **INITIALS:** [redacted] **DATE:** 8-14-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble:** ___ **< green pea;** ___ **> green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C °C

Project Manager Signature / Date: [redacted] 8-16-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Table 5-1. Example of a Cooler Receipt Checklist 8-15-01 [redacted] 0108127/8

COOLER RECEIPT CHECKLIST

LIMS number 01-0001-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-15-01 @ 1435

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA

8. Was project identifiable from custody papers? ..... Yes (No) NA

9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: WET

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA

14. Was all required bottle label information complete? ..... (Yes) No NA

15. Did all bottle labels agree with custody papers? ..... (Yes) No NA

16. Were correct containers used for the analyses indicated: ..... (Yes) No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)

18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA

19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1622 Fax

Accession Number (LAB ID) 0108128

Chain-of-Custody

Date 8-14-01 Page 1 of 1

Project Name / No.: _____ Turnaround Time: Standard or Rush (Due _____ (circle one) Dispose or Return to Client (circle one) [redacted]

Report [redacted]
Phone: [redacted]
Fax: 1-865-769-5313
Company: SAIC
Address: 2012 MARSH SWAMP POINT, KNOXVILLE TN. 37932

Sample ID	Date	Time	Lab ID	Matrix *	No. of Containers	VOCs OLM03.0 SW8260B E 624 E 524.2 (circle one)	Oil & Grease SW 9071A E413.2 (circle one)	BTEX (only) SW 8021B	Non-halogenated Organics GRO DRO SW 8015B (both) (circle one)	SVOCs OLM03.0 SW8270C E 625 E 525 (circle one)	OC Pesticides OLM03.0 SW 8081A E 608 E 508 (circle one)	PCBs OLM03.0 SW 8082 E 608 E 508 (circle one)	OP Pesticides SW 8141A E 614 (circle one)	Herbicides SW 8151A E 615 (circle one)	TCLP Organics SW 1311 8260B 8270C 8081A 8151A (circle)	TCLP Metals ** SW 1311 6010B-7000 series	Total Metals ** ILMO4.0 SW 6010B-7000 series E 200 series (circle)	Dissolved Metals ** ILMO4.0 SW 6010B-7000 series E 200 series (circle)	Reactive CN / S SW Chapter 8.3	Hexavalent Chromium SW 7196A	Inorganic Anions ** SW 9056 E 300.0 (circle one)	TOX SW 9020B	Gross Alpha / Beta SW 9310 E 900.0	Actinides** PAISOP	Total Uranium PAISOP	Tritium (H3) E 906.0	Total Radium SW 9315 E 903.0	Gamma Isotopes ** (Specify method under comments)	Strontium ** (Specify method under comments)	pH SW 9040B / 9045C	OTHER RADIONUCLIDE AS PER SCOP OF WORK			
SEA-COR-0000-SS-12-036-1	8-14-01	19:15		SS	1																		1		1		1	1						
SEA-COR-0000-SS-12-072-1	8-14-01	19:45		SS	1																		1		1		1	1						
SEA-COR-0000-SS-12-072-2	8-14-01	19:45		SS	1																		1		1		1	1						
SEA-COR-0000-SS-12-096-1	8-14-01	20:15	1	SS	4	2				1	1	1	1	* OC 8160			1																	
TEMP BLANK				H_2O	1																													

Comments:
(Example: Indicate if TICs are requested for GC/MS VOCs or SVOCs)
~~SA~~ AS PER R.A.P. & S.A.P.

NOTE: 7 DAY TURNAROUND TIME ON RADS ONLY

* Changed request from OP to OC pesticides per QAP.

[redacted]

Relinquished By: (3)
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

Received By: (3)
Signature _____
Printed Name _____
Date _____ Time _____
Company _____

* (W) Water; (LQ) Non-aqueous liquid; (Soil) Soil; (NS) Non [redacted] w (Paragon); pink retained by originator.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC PROJECT MANAGER: [redacted] 15 [illegible]

WORKORDER NO: 0108128 INITIALS: [redacted] DATE: 8-14-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C °C

Project Manager Signature / Date: [redacted] 8-16-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Table 5-1. Example of a Cooler Receipt Checklist 6-15 [redacted] 108127/8

COOLER RECEIPT CHECKLIST

LIMS number 01-0001-08-5600-160 Chain-of-Custody No. ✓

Project: SEAWAY LANDFILL Date received: 8-18-01 @ 1435

A. Preliminary Examination Phase Date cooler(s) opened: 8-18-01 @ 1650

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA

8. Was project identifiable from custody papers? ..... Yes (No) NA

9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: WET

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA

14. Was all required bottle label information complete? ..... (Yes) No NA

15. Did all bottle labels agree with custody papers? ..... (Yes) No NA

16. Were correct containers used for the analyses indicated: ..... (Yes) No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)

18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA

19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108137

Chain-of-Custody

Date 8-15-01 Page 1 of 1

Project Name / No.: Seaway Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due [redacted]) Dispose or Return to Client

Report To: [redacted]
Phone: (865) 769-5314 cell: (865) 414-1685
Fax: (865) 769-5313
Company: SAIC
Address: 2012 Marsh Swamp Pt.
Knoxville, TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals ~~+RAD~~ SW 1311 6010B 7471	Total Metals ~~+RAD~~ SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300 0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	Total RAD per SOW	
SEA-COR0003-SS-12-234-0	8/15/01	19:45	1	SS	3								✓	✓	✓																	✓	
SEA-COR0003-SS-12-258-0	8/15/01	19:15	2	SS	3								✓	✓																		✓	
SEA-COR0003-SS-12-246-0	8/15/01	19:13	3	SS	3								✓	✓																		✓	
SEA-COR0003-SS-12-294-0	8/15/01	19:00	4	SS	1																											✓	
SEA-COR0000-SS-12-090-1	8/14/01	20:05	5	SS	1																											✓	
Temp Matrix				H_2O																													

→ TOTAL RADS

Comments:
All Analyses per SOW.
7 Day TAT for RAD
14 Day TAT for TCLP

Form 202r4.xls (1/3/01)

[redacted]

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108137

Chain-of-Custody

Date 8-16-01 Page 2 of 2

Project Name / No.: SEAWAY ~~01-0801-08-5600-160~~ Turnaround Time: Standard or Rush (Due _____ (circle one) Dispose or Return to Client (circle one) Sampler [redacted]

Report T[redacted]
Phone: [redacted]
Fax: 865-776-5315 414-1685
Company: SAIC
Address: 2012 MARSHY SWAMP PT.
KNOXVILLE, TN. 37932

Sample ID	Date	Time	Lab ID	Matrix*	No. of Containers	VOCs OLMO3.0 SW 8260B E 624 E 524.2 (circle one)	Oil & Grease SW 9071A E413.2 (circle one)	BTEX (only) SW 8021B	Non-halogenated Organics GRO DRO SW 8015B (both) (circle one)	SVOCs OLMO3.0 SW 8270C E 625 E 525 (circle one)	OC Pesticides OLMO3.0 SW 8081A E 608 E 508 (circle one)	PCBs OLMO3.0 SW 8082 E 608 E 508 (circle one)	OP Pesticides SW 8141A E 614 (circle one)	Herbicides SW 8151A E 615 (circle one)	TCLP Organics SW 1311 8260B 8270C 8081A 8151A (circle)	TCLP Metals ** SW 1311 6010B-7000 series	Total Metals ** ILMO4.0 SW 6010B-7000 series E 200 series (circle)	Dissolved Metals ** ILMO4.0 SW 6010B-7000 series E 200 series (circle)	Reactive CN / S SW Chapter 8.3	Hexavalent Chromium SW 7196A	Inorganic Anions ** SW 9056 E 300.0 (circle one)	TOX SW 9020B	Gross Alpha / Beta SW 9310 E 900.0	Actinides** PAISOP	Total Uranium PAISOP	Tritium (H3) E 906.0	Total Radium SW 9315 E 903.0	Gamma Isotopes ** (Specify method under comments)	Strontium ** (Specify method under comments)	pH SW 9040B / 9045C	TOTAL RADS AS PER S.O.W.			
SEA-COR-0003-SS-12-258-1	8-15-01	19:15	6		1																										✓		
SEA-COR-0003-SS 12-246-1	8-15-01	19:30	7		1																										✓		
SEA-COR-0003-SS -12-234-1	8-15-01	19:45	8		1																										✓		
SEA-COR-0003-SS -12-294-1	8-15-01	19:00	9		1																										✓		
~~SEA-COR-0002-SS 12-090-1~~	Dm 8-16-01																																
	Dm 8-16-01																																

[redacted]

Comments:
(Example: Indicate if TICs are requested for GC/MS VOCs or SVOCs
ALL ANALITICAL PER SOW
7DAY TAT FOR RAD
14DAY TAT FOR TCLP

[redacted]quished By: (3)
[redacted]ature _____
[redacted]ed Name _____
_____ Time _____
[redacted]pany _____

[redacted]ived By: (3)
[redacted]ature _____
[redacted]ed Name _____
_____ Time _____
[redacted]pany _____

* (W) Water; (LQ) Non-aqueous liquid; (Soil) Soil; (NS)[redacted]Paragon); pink retained by originator.

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108137

Chain-of-Custody

Date 8/16/01 Page 1 of 2

Project Name / No.: SEAWAY 01-0801-08-5683 Number(s): [redacted] (circle one) Turnaround: Standard or Rush (Due [redacted]) Dispose or Return to Client

Report To: [redacted]

Fax: (865) 769-5313 414-1685

Company: SAIC

Address: 2012 Marshy Swamp Pt.
Knoxville, TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals+RAD SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RAD PER SOW	
~~SEA COR 0001~~																																	
SEA COR 0001-SS-14-014-0	8-16-01	1030	10	SS	3								✓	✓																		✓	
SEA COR 0001-SS-06-018-0	8-16-01	1040	11	SS	3								✓	✓																		✓	
SEA COR 0001-SS-06-024-0	8-16-01	1040	12	SS	3								✓	✓																		✓	
SEA COR 0001-SS-18-042-0	8-16-01	1130	13	SS	3								✓	✓																		✓	
SEA COR 0001-SS-12-068-0	8-16-01	1215	14	SS	3								✓	✓																		✓	
SEA COR 0001-SS-12-078-0	8-16-01	1240	15	SS	2								✓	✓																		~~✓~~ 9UP 8/16/01	
SEA COR 0001-SS-14-090-0	8-16-01	1250	16	SS	3	15							✓	✓																		✓	
SEA COR 0001-SS-06-096-0	8-16-01	1300	17	SS	2								✓	✓																		~~✓~~ 9UP 8/16/01	
SEA COR 0001-SS-14-206-0	8-16-01	1310	18	SS	2								✓	✓																		~~✓~~ 9UP	

Comments:

All Analyses per SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

[redacted]

Form 202r4.xl

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comme

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108137

Chain-of-Custody

Date 8/17/01 Page 1 of 1

Project Name / No: Seaway 01-0801-08-5600-[redacted] Sample [redacted] (circle one) Turnaround: Standard or Rush (Due [redacted]) Dispose or Return to Client

Report To: [redacted]
Phone: [redacted]
Fax: (865) 769-5313 [redacted]
Company: SAIC
Address: 2012 Marshy Swamp Pt.
Knoxville, TN 37932

circle method or specify under comments

	Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals ~~SW1311 6010B 7471~~ RAD	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RAD PER SOW	TOTAL TCLP RAD PER SOW
*	SEA-COR-0001-SS-12-018-0	8-16-01	1240	16	SS	1							[redacted]		✓																	✓	✓
*	SEA-COR-0001-SS-06-096-0	8-16-01	1300	17	SS	1									✓																	✓	✓
*	SEA-COR-0001-SS-14-206-0	8-16-01	1310	18	SS	1									✓																	✓	✓
*	SEA-COR-0001-SS-12-216-0	8-16-01	1320	19	SS	1									✓																	✓	✓
*	SEA-COR-0001-SS-14-228-0	8-16-01	1330	20	SS	1									✓																	✓	✓
	1															8/17/01																	

Comments:

ALL ANALYSES PER SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

* THESE RAD CONTAINERS ASSOCIATED WITH SHIPMENT DATED 8/16/01

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108137 **INITIAL** [redacted] **DATE:** 8-16-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 1	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 6°C °C

Project Manager Signature / Date: [redacted] 8-20-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0108137

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0001-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-16-01

A. Preliminary Examination Phase [redacted] Date cooler(s) opened: 8-16-01

by (print) [redacted] (signature) [redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 1 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA
8. Was project identifiable from custody papers? ..... (Yes) No NA
9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: WET

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-16-01

B. Log-In-Phase Date samples were logged in: 8-16-01

[redacted]

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA
14. Was all required bottle label information complete? ..... (Yes) No NA
15. Did all bottle labels agree with custody papers? ..... (Yes) No NA
16. Were correct containers used for the analyses indicated: ..... (Yes) No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)
18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA
19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108137 **INITIALS:** [redacted] **DATE:** 8-17-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? [redacted]	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s	1	2				
Temperature	4°C	Ambient ([redacted]				°C

Project Manager Signature / Date: [redacted] 8-2001

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0108137/6

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0801-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-17-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 / Cooler Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA

8. Was project identifiable from custody papers? ..... (Yes) No NA

9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-17-01

B. Log-In-Phase Date samples were logged in: 8-17-01

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA

14. Was all required bottle label information complete? ..... (Yes) No NA

15. Did all bottle labels agree with custody papers? ..... (Yes) No NA

16. Were correct containers used for the analyses indicated: ..... (Yes) No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)

18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA

19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108171 **INITIALS:** [redacted] **DATE:** 8-18-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C [redacted] °C

Project Manager Signature / Date: [redacted] 8-20-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0108137

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0801-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-18-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-18-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA

8. Was project identifiable from custody papers? ..... (Yes) No NA

9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

[redacted] aterial (X)

8-18-01

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA

14. Was all required bottle label information complete? ..... (Yes) No NA

15. Did all bottle labels agree with custody papers? ..... (Yes) No NA

16. Were correct containers used for the analyses indicated: ..... (Yes) No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)

18. Was a sufficient amount of sample sent for the analyses required? ..... Yes (No) NA

19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108138

Chain-of-Custody

Date 8-15-01 Page 1 of 1

Project Name / No.: Seaway Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due [redacted]) Dispose or Return to Client

Report To: [redacted]
Phone: [redacted]
Fax: (865) 769-5313 [redacted]
Company: SAIC
Address: 2012 Marshy Swamp Pt.
Knoxville, TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608, E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + RAD SW 1311 6010B 7471	Total Metals + RAD SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	Total RAD per SOW
SEA-COR0003-SS-12-234-0	8/15/01	19:45	1	SS	3								✓	✓	✓																	✓
SEA-COR0003-SS-12-258-0	8/15/01	19:15	2	SS	3								✓	✓																		✓
SEA-COR0003-SS-12-246-0	8/15/01	19:13	3	SS	3								✓	✓																		✓
SEA-COR0003-SS-12-294-0	8/15/01	19:00		SS	1																											✓
SEA-COR0000-SS-12-090-1	8/14/01	20:05		SS	1																											✓
Temp Matrix				H_2O																												

Comments:
All Analyses per SOW.
7 Day TAT for RAD
14 Day TAT for TCLP

TCLP Leachates are 4,5,[redacted]

Form 202r4.xls (1/3/0[redacted]

[redacted]

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524

800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 010813 8

Chain-of-Custody

Date 8-16-01 Page 1 of 2

Project Name / No.: SEAWAY 01-0801-08-5600-160 Turnaround Time: Standard or Rush (Due _____ (circle one) Dispose or Return to Client (circle one) Samp[redacted]

[redacted]

Fax: 865-786-3313 414-1685

Company: SAIC

Address: 2012 MARSHY SWAMP PT.

KNOXVILLE, TN. 37932

Sample ID	Date	Time	Lab ID	Matrix *	No. of Containers	VOCs (OLMO3.0 SW 8260B E 624 E 524.2 (circle one))	Oil & Grease (SW 9071A E413.2 (circle one))	BTEX (only) (SW 8021B)	Non-halogenated Organics (GRO DRO SW 8015B (both) (circle one))	SVOCs (OLMO3.0 SW 8270C E 625 E 525 (circle one))	OC Pesticides (OLMO3.0 SW 8081A E 608 E 508 (circle one))	PCBs (OLMO3.0 SW 8082 E 608 E 508 (circle one))	OP Pesticides (SW 8141A E 614 (circle one))	Herbicides (SW 8151A E 615 (circle one))	TCLP Organics (SW 1311 8260B 8270C 8081A 8151A (circle))	TCLP Metals ** (SW 1311 6010B-7000 series)	Total Metals ** (ILMO4.0 SW 6010B-7000 series E 200 series (circle))	Dissolved Metals ** (ILMO4.0 SW 6010B-7000 series E 200 series (circle))	Reactive CN / S (SW Chapter 8.3)	Hexavalent Chromium (SW 7196A)	Inorganic Anions ** (SW 9056 E 300.0 (circle one))	TOX (SW 9020B)	Gross Alpha / Beta (SW 9310 E 900.0)	Actinides** (PAISOP)	Total Uranium (PAISOP)	Tritium (H3) (E 906.0)	Total Radium (SW 9315 E 903.0)	Gamma Isotopes ** (Specify method under comments)	Strontium ** (Specify method under comments)	pH (SW 9040B / 9045C)
SEA-ABA-1002-SS-12-180-0	8-16-01	9:45	7		3	✓																								
SEA-ABA-1003-SS-12-168-0	8-16-01	11:00	8		3	✓																								
[redacted]																														
[redacted]																														
[redacted]																														

Comments:

(Example: Indica[redacted]equested for GC/MS VOCs or SVOCs

ALL ANALYTICAL PER SOW

7 DAY TAT FOR RADS

14 DAY TAT FOR TCLP

[redacted]

[redacted]inquished By: (3)

[redacted]nature _____

[redacted]nted Name _____

[redacted]e _____ Time _____

[redacted]mpany _____

[redacted]ceived By: (3)

[redacted]nature _____

[redacted]nted Name _____

[redacted]e _____ Time _____

[redacted]mpany _____

* (W) Water; (LQ) Non-aqueous liquid; (Soil) Soil; (NS)[redacted] (Paragon); pink retained by originator.

Paragon Analytics, Inc.
225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Chain-of-Custody

Accession Number (LAB ID) 0108138

Date 8-16-01 Page 2 of 2

Project Name / No.: SEAWAY 01-0801-08-5600 [redacted] (circle one) Turnaround: Standard or Rush [redacted]) Dispose or Return to Client

Report To:
Phone:
Fax:
Company:
Address:

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + RAD SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RAD PER SOW	
SEA-CDR-0001-SS-12-216-D	8-16-01	1320	9	SS	2								✓	✓																		✓	8/16/01
SEA-CDR-0001-SS-14-22B-D	8-16-01	1330	10	SS	2								✓	✓																		✓	8/16/01

Comments:
ALL ANALYSES PER SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

[redacted]

Form 202r4.xls (1/

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Distribution: white / yellow (Paragon), pink retained by originator.

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108138

Chain-of-Custody

Date 8/16/01 Page 1 of 2

Project Name / No.: SEAWAY 01-0801-08-5[illegible] [redacted]

(circle one) Turnaround: Standard or Rush (Due Rush) Dispose or Return to Client

[redacted]

Address: 2012 Marshy Swamp Pt.
Knoxville, TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals+RAD SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RAD PER SOW	
~~SEA-COR-0001~~																																	
SEA COR 0001-SS-14-014-0	8-16-01	1030	11	SS	3								✓	✓																		✓	
SEA COR 0001-SS-06-018-0	8-16-01	1040	12	SS	3								✓	✓																		✓	
SEA COR 0001 SS-06-024-0	8-16-01	1040	13	SS	3								✓	✓																		✓	
SEA COR 0001-SS-18-042-0	8-16-01	1130	14	SS	3								✓	✓																		✓	
SEA COR 0001-SS-12-068-0	8-16-01	1215	15	SS	3								✓	✓																		✓	
SEA COR 0001-SS-12-078-0	8-16-01	1240	16	SS	2								✓	✓																		~~✓~~	8/16/01
SEA COR 0001-SS-14-090-0	8-16-01	1250	17	SS	3								✓	✓																		✓	
SEA COR 0001-SS-06-096-0	8-16-01	1300	18	SS	2								✓	✓																		~~✓~~	8/16/01
SEA COR 0001-SS-14-206-0	8-16-01	1310	19	SS	2								✓	✓																		~~✓~~	

Comments:

All Analyses per SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

[redacted]

Form 202r4.xls (1

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0109138

Chain-of-Custody

Date 8/17/01 Page 1 of 1

Project Name / No. Sea Way, 01-0801-08-5600-[redacted]

(circle one) Turnaround: Standard or Rush (Due RUSH) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 Marshy Swamp Rd.
Knoxville, TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + RAD SW1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RAD PER SOW	TOTAL TCLP RAD PER SOW	
* SEA-COR-0001-SS-12-018-0	8-16-01	1240	16	SS	1									✓																	✓	✓	16
* SEA-COR-0001-SS-06-096-0	8-16-01	1300	17	SS	1								[redacted]	✓																	✓	✓	18
* SEA-COR-0001-SS-14-206-0	8-16-01	1310	18	SS	1									✓																	✓	✓	19
* SEA-COR-0001-SS-12-216-0	8-16-01	1320	19	SS	1									✓																	✓	✓	9
* SEA-COR-0001-SS-14-228-0	8-16-01	1330	20	SS	1									✓	8/17/01																✓	✓	10
/			[redacted]																														

Comments:

ALL ANALYSES PER SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

* THESE RAD CONTAINERS ASSOCIATED WITH SHIPMENT DATED 8/16/01

[redacted]

Form 202r4.xls (1/3/

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108138 **INITIALS:** [redacted] **DATE:** 8-16-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 1	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble:** ___ **< green pea;** ___ **> green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 6°C °C

Project Manager Signature / Date: [redacted] 8-21-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

010813 8

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0001-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-16-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-16-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 1 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA

8. Was project identifiable from custody papers? ..... (Yes) No NA

9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: WET

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-16-01

B. Log-In Phase Date samples were logged in: 8-16-01

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA

14. Was all required bottle label information complete? ..... (Yes) No NA

15. Did all bottle labels agree with custody papers? ..... (Yes) No NA

16. Were correct containers used for the analyses indicated: ..... (Yes) No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)

18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA

19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108136 **INITIALS:** [redacted] **DATE:** 8-17-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2/cooler	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1 2 ___ ___ ___ ___

Temperature 4°C Ambient (RAD) ___ ___ ___ °C

Project Manager Signature / Date: [redacted] 8-21-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0108137/8

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0801-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-17-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-17-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Cooler Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA

8. Was project identifiable from custody papers? ..... (Yes) No NA

9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-17-01

B. Log-In-Phase Date samples were logged in: 8-17-01

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA

14. Was all required bottle label information complete? ..... (Yes) No NA

15. Did all bottle labels agree with custody papers? ..... (Yes) No NA

16. Were correct containers used for the analyses indicated: ..... (Yes) No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)

18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA

19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108139 **INITIALS:** [redacted] **DATE:** 8-18-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 7	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C °C

Project Manager Signature / Date: [redacted] 8-21-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0108138

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0801-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-18-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-18-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... Yes No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Yes No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... Yes No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... Yes No NA

8. Was project identifiable from custody papers? ..... Yes No NA

9. If required, was enough ice present in the cooler(s)? ..... Yes No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (✓)

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... Yes No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... Yes No NA

14. Was all required bottle label information complete? ..... Yes No NA

15. Did all bottle labels agree with custody papers? ..... Yes No NA

16. Were correct containers used for the analyses indicated: ..... Yes No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No NA

18. Was a sufficient amount of sample sent for the analyses required? ..... Yes No NA

19. Were bubbles absent in VOA vials? ..... Yes No NA

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108170

Chain-of-Custody

Date 8-17-01 Page 1 of 1

Project Name / No.: SEAWAY 01-0801-08-5600-160 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

Report To: [redacted]
Phone: [redacted]
Fax: 865-796-9313 [redacted]
Company: SAIC
Address: 2012 MARSHY SWAMP PT.
KNOXVILLE, TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO	OC Pesticides SW8081A E608 E508 OLMO	PCBs SW8082 E608 E508 OLMO	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO	Dissolved Metals SW6010B 7470 E200 ILMO	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER S.O.W.	
SEA-COR-0602-SS-06-090-0	8-15-01	10:00	1		1																											
[redacted]																																

8-17-01

Comments:
ALL ANALITICAL ASPER S.O.W.
7 DAY T.A.T. FOR RADS
14 DAY T.A.T. FOR T.C.L.P.

[redacted]

Relinquished By: (2)
Signature _____
Printed Name FEDEX
Date _____ Time _____
Company _____

Date 8-17-01 Time 19:20
Company SAIC

Received By: (1)
Signature _____
Printed Name FEDEX
Date _____ Time _____
Company _____

[redacted]

Date 8-18-01 Time 10:0
Company PAI

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments. Distribution: white / yellow (Paragon); pink retained by originator.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108170 **INITIALS:** [redacted] **DATE:** 8-18-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 7	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C °C

Project Manager Signature / Date: [redacted] 8-21-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0108170

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0801-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-18-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-18-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... Yes No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Yes No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... Yes No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... Yes No NA

8. Was project identifiable from custody papers? ..... Yes No NA

9. If required, was enough ice present in the cooler(s)? ..... Yes No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... Yes No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... Yes No NA

14. Was all required bottle label information complete? ..... Yes No NA

15. Did all bottle labels agree with custody papers? ..... Yes No NA

16. Were correct containers used for the analyses indicated: ..... Yes No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No NA

18. Was a sufficient amount of sample sent for the analyses required? ..... Yes No NA

19. Were bubbles absent in VOA vials? ..... Yes No NA

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108171

Chain-of-Custody

Date 8/17/01 Page 1 of 1

Project Name / No.: Seaway 01-0801-08-3608 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due RUSH) Dispose or Return to Client

Report [redacted]
[redacted]
Company: SAIC
Address: 2012 Marshy Swamp Pt.
Knoxville, TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1		
SEA-ARA-1001-SS 14-014-0	8/17/01	1650	1	SS	2								✓	✓																			
SEA-ARA-1001-SS 06-018-0	8/17/01	1705	2	SS	2								✓	✓																			
SEA-ARA-1001-SS 14-028-0	8/17/01	1710	3	SS	2								✓	✓																			
SEA-ARA-1001-SS 14-110-0	8/17/01	1715	4	SS	2								✓	✓																			
SEA-ARA-1001-SS 06-114-0	8/17/01	1720	5	SS	2								✓	✓																			
SEA-ARA-1001-SS 06-120-0	8/17/01	1725	6	SS	2								✓	✓																			
SEA-ARA-1001-SS 16-230-0	8/17/01	1740	7	SS	2								✓	✓																			
TEMP BLANK					1																												

[redacted]

Comments:
ALL ANALYSES PER SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

Form 202r4.xls (1/3/01

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108171 **INITIALS:** [redacted] **DATE:** 8-18-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C °C

Project Manager Signature / Date: [redacted] 8-21-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

010817

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 01-0001-08-5600-160 Chain-of-Custody No. _____

Project: SEAWAY LANDFILL Date received: 8-18-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-18-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA
8. Was project identifiable from custody papers? ..... (Yes) No NA
9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

[redacted]

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA
14. Was all required bottle label information complete? ..... (Yes) No NA
15. Did all bottle labels agree with custody papers? ..... (Yes) No NA
16. Were correct containers used for the analyses indicated: ..... (Yes) No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)
18. Was a sufficient amount of sample sent for the analyses required? ..... Yes (No) NA
19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108177

Chain-of-Custody

Date 8/19/01 Page 1 of 3

Project Name / No.: Seaway 01-0001-00-500 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due RUSH) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 Marsh Spring Rd
Knoxville, TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E5242 OLMO	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO	OC Pesticides SW8081A E608 E508 OLMO	PCBs SW8082 E608 E508 OLMO	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals +Rad SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO	Dissolved Metals SW6010B 7470 E200 ILMO	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER SOW	DM 8-20-01 TOTAL RADS AS PER S.OW
SEA-ARA-1004-SS-00-003-0	8/18/01	1210	1	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-00-014-0	8/18/01	1215	2	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-12-072-0	8/18/01	1220	3	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-12-138-0	8/18/01	1240	4	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-00-152-0	8/18/01	1235	5	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-12-174-0	8/18/01	1245	6	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS-00-018-0	8/18/01	1320	7	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS-00-023-0	8/18/01	~~1320~~ 1325	8	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS-12-132-0	8/18/01	1335	9	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS-12-148-0	8/18/01	1340	10	SS	3								✓	✓																		✓	✓

Comments:
ALL ANALYSES ARE SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP
* added "+Rad" per George Bettworth on 8-21-01

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

[redacted]

Paragon Analytics, Inc.
225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Chain-of-Custody

Accession Number (LAB ID) 0108177

Date 8/19/01 Page 2 of 3

Project Name / No.: Seaway 01-0821-08-5202-108 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due RUSH) Dispose or Return to Client

Report To: [redacted]

Company: SAIC
Address: 2012 Marsh Swamp Rd.
Knoxville, ~~[illegible]~~ TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + Radi SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS ASPER SOW. d	DM 8-20-01 TOTAL TCLP RADS AS PER SOW
SEA-ARA-1002-SS 12-264-0	8/18/01	1345	11	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS 06-018-0	8/18/01	1530	12	SS	3								✓	✓																		✓	✓
SEA-COR-0002-SS 12-036-0	8/18/01	1535	13	SS	3								✓	✓																		✓	✓
SEA-COR-0002-SS 48-180-0	8/18/01	1545	14	SS	3								✓	✓																		✓	✓
SEA-ARA-1003-SS 06-012-0	8/18/01	1620	15	SS	3								✓	✓																		✓	✓
SEA-ARA-1023-SS 12-024-0	8/18/01	1625	16	SS	3								✓	✓																		✓	✓
SEA-ARA-1023-SS 24-142-0	8/18/01	1640	17	SS	3								✓	✓																		✓	✓
SEA-ARA-2001-SS 06-012-0	8/18/01	1710	18	SS	3								✓	✓																		✓	✓
SEA-ARA-2021-SS 06-018-0	8/18/01	1720	19	SS	3								✓	✓																		✓	✓
SEA-ARA-2021-SS 24-036-0	8/18/01	1730	20	SS	3								✓	✓																		✓	✓

Comments:
ALL ANALYSES ARE SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

0108177

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 0108177 Chain-of-Custody No. N/A

Project: Sowway Date received: 8-21-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-21-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA
8. Was project identifiable from custody papers? ..... (Yes) No NA
9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-26-01

B. Log-In-Phase Date samples were logged in: 8-21-01

[redacted]

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA
14. Was all required bottle label information complete? ..... (Yes) No NA
15. Did all bottle labels agree with custody papers? ..... (Yes) No NA
16. Were correct containers used for the analyses indicated: ..... (Yes) No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)
18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA
19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108177 **INITIALS:** [redacted] **DATE:** 8-21-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2/cooler	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble:** ___ **< green pea;** ___ **> green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1 2 3 ___ ___

Temperature 3°C 4°C AMBIENT [redacted] ___ ___ °C

Project Manager Signature / Date: [redacted] 8-21-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108178

Chain-of-Custody

Date 8/19/01 Page 1 of 3

Project Name / No.: Seaway 01-0B01-0B-5600-160 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due RUSH) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 Marsh Swamp Rd.
Knoxville, TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + Rad * SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER SOW	DIN 8-20-01 STOTAL RADS AS PER S.OW
SEA-ARA-1004-SS-06-008-0	8/18/01	1210	1	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-06-014-0	8/18/01	1215	2	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-12-072-0	8/18/01	1220	3	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-12-138-0	8/18/01	1240	4	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS-06-150-0	8/18/01	1235	5	SS	3								✓	✓																		✓	✓
SEA-ARA-1004-SS 12-174-0	8/18/01	1245	6	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS 06-018-0	8/18/01	1320	7	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS 06-008-0	8/18/01	~~1320~~ 1325	~~6~~ 8	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS 12-132-0	8/18/01	1335	9	SS	3								✓	✓																		✓	✓
SEA-ARA-1002-SS 12-198-0	8/18/01	1340	10	SS	3								✓	✓																		✓	✓

[redacted]

Comments:
ALL ANALYSES AER SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP
* added "+Rad" per George Butterworth on 8-21-01

Form 202r4.xls (1/3/

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Distribution: White / yellow (Paragon); pink retained by originator.

0108178

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524

800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108178

Chain-of-Custody

Date 8/19/01 Page 2 of 3

Project Name / No.: Seawan 01-0801-08-5400-168 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due RUSH) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 Marsh Swamp Rd.
Knoxville, ~~AAA~~ TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E506 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + Rad SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-96 Strontium 90 D5811-96	Gamma Isotopes ** E901.1	TOTAL RADS ASPER SOW, 4	DM 8-20-01 TOTAL TCLP RADS AS PER SOW
SEA-ARA-1002-SS 12-264-0	8/18/01	1345	11	SS	3								✓	✓																		✓	✓
SEA-EDR-0002-SS 06-018-0	8/18/01	1530	12	SS	3								✓	✓																		✓	✓
SEA-CDR-0002-SS 12-036-0	8/18/01	1535	13	SS	3								✓	✓																		✓	✓
SEA-CDR-0002-SS 48-180-0	8/18/01	1545	14	SS	3								✓	✓																		✓	✓
SEA-ARA-1003-SS 06-012-0	8/18/01	1620	15	SS	3								✓	✓																		✓	✓
SEA-ARA-1003-SS 12-024-0	8/18/01	1625	16	SS	3								✓	✓																		✓	✓
SEA-ARA-1003-SS 24-042-0	8/18/01	1640	17	SS	3								✓	✓																		✓	✓
SEA-ARA-2001-SS 06-012-0	8/18/01	1710	18	SS	3								✓	✓																		✓	✓
SEA-ARA-2001-SS 06-018-0	8/18/01	1720	19	SS	3								✓	✓																		✓	✓
SEA-ARA-2001-SS 24-036-0	8/18/01	1730	20	SS	3								✓	✓																		✓	✓

Comments:
ALL ANALYSES PER SOW
7 DAY TAT FOR RAD
14 DAY TAT FOR TCLP

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: ~~010518~~ 0108178 **INITIALS:** [redacted] **DATE:** 8-21-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? [redacted]	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1 2 3 ___ ___ ___

Temperature 2°C 5°C AMBIENT (RAD) ___ °C

Project Manager Signature / Date: [redacted]

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0100178

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number _____ Chain-of-Custody No. _____

Project: _____ Date received: 8-21-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-21-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA
8. Was project identifiable from custody papers? ..... (Yes) No NA
9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-26-01

[redacted] 8-21-01

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA
14. Was all required bottle label information complete? ..... (Yes) No NA
15. Did all bottle labels agree with custody papers? ..... (Yes) No NA
16. Were correct containers used for the analyses indicated: ..... (Yes) No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)
18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA
19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

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800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108179

Chain-of-Custody

Date 8-20-01 Page 2 of 2

Project Name / No.: SEAWAY 01-0801-08-5600-160 Sampler([redacted]) (circle one) Turnaround: Standard or Rush (Due SEE NOTE 2) Dispose or Return to Client

Report To: [redacted]

Company: SAIC
Address: 2012 MARSHY SWAMP RD.
KNOXVILLE, TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER S.O.W.	TOTAL RADS TCLP PER SOW	
SEA-ARC-1002-SS-06-102-0	8-19-01	15:50	1		1																											✓	✓	1
SEA-ARC-1001-SS-06-032-0	8-19-01	16:30	2		1																											✓	✓	2
SEA-ARC-1008-SS-12-054-0	8-19-01	17:55	3		2								✓	✓																				
SEA-ARC-1001-SS-12-096-0	8-19-01	16:45	4		3								✓	✓																		✓	✓	3
SEA-ARC-1001-SS-06-032-0	8-19-01	16:30	5		2								✓	✓																				
SEA-ARC-1008-SS-06-036-0	8-19-01	17:45	6		2								✓	✓																				
SEA-ARC-1002-SS-12-132-0	8-19-01	15:50	7		2								✓	✓																				
SEA-ARC-1008-SS-06-042-0	8-19-01	17:35	8		2								✓	✓																				
SEA-ARC-1008-SS-12-032-0	8-19-01	17:15	9		2								✓	✓																				
SEA-ARC-1003-SS-06-102-0	8-19-01	11:50	10		2								✓	✓																				

Comments: ALL ANALYSES PER S.O.W.
7 DAY T.A.T. FOR RADS
14 DAY T.A.T. FOR TCLP

[redacted]

Form 202r4.xls

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under commer

Paragon Analytics, Inc.

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Accession Number (LAB ID) 0108179

Chain-of-Custody

Date 8/19/01 Page 3 of 3

Project Name / No.: SEAWAY OU 08D1 OB 5600 160 Sampler(s) [redacted] (circle one) Turnaround: Standard or Rush (Due RUSH) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 Marsh Swamp Rd.
Knoxville, ~~[illegible]~~ TN 37932

circle method or specify under comments

Sample ID	Date	Time * [redacted]	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO	OC Pesticides SW8081A E608 E508 OLMO	PCBs SW8082 E608 E508 OLMO	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO	Dissolved Metals SW6010B 7470 E200 ILMO	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER SOW	DM 8-20-01 TOTAL TCLP RADS AS PER SOW
SEA-ARA-2002-SS 08-008-0	8/18/01	1750	11	SS	3								/	/																		✓	4
SEA-ARA-2002-SS 18-030-0	8/18/01	1800	12	SS	3								/	/																		✓	5
SEA-ARA-2002-SS 08-162-0	8/18/01	1815	13	SS	3								/	/																		✓	6
TEMP BLANK					1																												

[redacted]

8-20-01

[redacted]

Comments:
All Analyses Per SOW
7 Day TAT For RAD
14 Day TAT For TCLP

[redacted]

Form 202r4.xls (1/3/01

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Distribution: white / yellow (Paragon); pink retained by originator.

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108179

Chain-of-Custody

Date 8-20-01 Page 1 of 1

Project Name / No.: SEAWIN Y Sampler(s): _____ (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Fax: 865-769-5313
Company: SAIC
Address: 2012 MARSHY SWAMP PT
KNOXVILLE, TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E625 OLMO__	OC Pesticides SW8081A E608 E608 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER S.O.W.	TOTAL RADS TCLP PER SOW
SEA-ARA-1001-SS-14-110-0	8-17-01	17:15	7		1																										✓	✓
SEA-ARA-1001-SS-DB-120-0	8-17-01	17:25	8		1																										✓	✓
~~SEA-ARA-1001-SS-DB-120-0~~ DM	~~8-17-01~~	DM																													~~✓~~ DM	
~~SEA-ARA-1004-SS-12-170-0~~	~~8-17-01~~	~~12:45~~			1		This sample ID requested on separate COC.																								~~✓~~	~~✓~~
SEA-ARA-1001-SS-16-230-0	8-17-01	17:30	9		1																										✓	✓
SEA-ARA-1001-SS-14-028-0	8-17-01	17:10	10		1																										✓	✓
SEA-ARA-1001-SS-14-014-0	8-17-01	~~17:05~~ 16:55 DM	11		1																										✓	✓
SEA-ARA-1001-SS-06-018-0	8-17-01	17:05	12		1																										✓	✓
SEA-ARA-1001-SS-06-114-0	8-17-01	17:20	13		1																										✓	✓

Comments:
ALL ANALYSES PER SOW
7 DAY T.A.T. FOR RADS

[redacted]

Form 202r4.xls (1/3/

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108179 [redacted] **DATE:** 8-21-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2/cooler	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1 2 3

Temperature 2°C 5°C Ambient (Rad) °C

Project Manager Signature / Date: [redacted]-22-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

01001 79

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number _____ Chain-of-Custody No. _____

Project: _____ Date received: 8-21-01

A. Preliminary Examination Phase Date cooler(s) opened: 8-21-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA

8. Was project identifiable from custody papers? ..... (Yes) No NA

9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) M (date) 8-26-01

B. Log-In Phase Date samples were logged in: 8-21-01

[redacted]

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA

14. Was all required bottle label information complete? ..... (Yes) No NA

15. Did all bottle labels agree with custody papers? ..... (Yes) No NA

16. Were correct containers used for the analyses indicated: ..... (Yes) No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)

18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA

19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108180

Chain-of-Custody

Date 8-20-01 Page 1 of 2

Project Name / No.: [illegible] Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due [illegible]) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 201Z MASHY SWAMP PT.
KNOXVILLE, TN. 3793Z

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix Bleachate ID	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 815[redacted]	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO[redacted]	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1		
SEA-ARC-1003-SS-06-096-0	8-19-01	12:05	1	17	2								✓	✓																			
SEA-ARC-1003-SS-12-132-0	8-19-01	11:35	2	18	2								✓	✓																			
SEA-ARC-1003-SS-12-080-0	8-19-01	12:20	3	19	2								✓	✓	✓																		
TEMP BLANK					1																												

Comments:
ALL ANALYSES PER S.O.W.
14 DAY TAT FOR TCLP

[redacted]

Form 202r4.xls (1[redacted]

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

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800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108180

Chain-of-Custody

Date 8-20-01 Page 2 of 2

Project Name / No.: SEAWAY-01-E801-08-3600-160 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due SEE NOTES) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 MARSHY SWAMP RT.
KNOXVILLE, TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E506 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 90 D5811-95 Strontium 89 D5811-95	Gamma Isotopes ~ E901.1	TOTAL RADS AS PER SOW.	TOTAL RADS TCLP PER SOW
SEA-ARC-1002-SS-06-102-0	8-19-01	15:50	4	20	1																												
SEA-ARC-1001-SS-06-032-0	8-19-01	16:30	5	21	1								—	—	—																		
SEA-ARC-1008-SS-12-054-0	8-19-01	17:55	6	22	2								✓	✓																			
SEA-ARC-1001-SS-12-096-0	8-19-01	16:45	7	23	3								✓	✓																		✓	✓
SEA-ARC-1001-SS-06-032-0	8-19-01	16:30	8	24	2								✓	✓																			
SEA-ARC-1008-SS-06-036-0	8-19-01	17:45	9	25	2								✓	✓																			
SEA-ARC-1002-SS-12-132-0	8-19-01	15:50	10	24	2								✓	✓																			
SEA-ARC-1008-SS-06-042-0	8-19-01	17:35	11	27	2								✓	✓																			
SEA-ARC-1008-SS-12-032-0	8-19-01	17:15	12	28	2								✓	✓																			
SEA-ARC-1003-SS-06-102-0	8-19-01	11:50	13	24	2								✓	✓																			

Comments: ALL ANALYSES PER S.O.W.
7 DAY T.A.T. FOR RADS
14 DAY T.A.T. FOR TCLP

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

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225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Chain-of-Custody

Accession Number (LAB ID) 0108180

Date 8/19/01 Page 3 of 3

[redacted] (circle one) Turnaround: Standard or Rush (Due Rush) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 Marsh Swamp Rd.
Knoxville, ~~TN~~ TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + Rad SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER SOW	DM 8-20-01 TOTAL TCLP RADS AS PER SOW
30 SEA-ARA-2002-SS 08-003-0	8/18/01	1750	14	SS	3								✓	✓																		✓	✓
31 SEA-ARA-2002-SS 18-030-0	8/18/01	1800	15	SS	3								✓	✓																		✓	✓
32 SEA-ARA-2002-SS 08-162-0	8/18/01	1815	16	SS	3								✓	✓																		✓	✓
TEMP BLANK					1																												

[redacted]

8-20-01

[redacted]

Comments:
All Analyses Per SOW
7 Day TAT For RAD
14 Day TAT For TCLP

Form 202r4.xls (1/3/01

[redacted]

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Distribution: White / yellow (Paragon), pink retained by Originator

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC PROJECT MANAGER: [redacted]

WORKORDER NO: 0108180 INITIALS: [redacted] DATE: 8-21-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2/cooler	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s	1	2	3			
Temperature	20C	5C	AMBIENT (RAD)			°C

Project Manager Signature / Date: [redacted] 8-22-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0100180

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 0108180 Chain-of-Custody No. N/A

Project: Seaway Date received: 8-21-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... Yes No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No NA

4. Did you screen samples for radioactivity using a Geiger Counter? ..... Yes No NA

5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... Yes No NA

6. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No NA

7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... Yes No NA

8. Was project identifiable from custody papers? ..... Yes No NA

9. If required, was enough ice present in the cooler(s)? ..... Yes No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) M (date) 8-26-01

[redacted] 8-21-01

11. Describe type of packing in cooler(s): _____

12. Were all bottles sealed in separate plastic bags? ..... Yes No NA

13. Did all bottles arrive unbroken & were labels in good condition? ..... Yes No NA

14. Was all required bottle label information complete? ..... Yes No NA

15. Did all bottle labels agree with custody papers? ..... Yes No NA

16. Were correct containers used for the analyses indicated: ..... Yes No NA

17. Were correct preservatives placed into the sample containers? ..... Yes No NA

18. Was a sufficient amount of sample sent for the analyses required? ..... Yes No NA

19. Were bubbles absent in VOA vials? ..... Yes No NA

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108183

Chain-of-Custody

Date 8-20-01 Page 1 of 1

Project Name / No.: SEAWAY Sampler(s): _____ (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 MARSHY SWAMP PT
KNOXVILLE, TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER S.O.W.	TOTAL RADS TCLP, PER SOW
SEA-ARA-1001-SS-14-110-0	8-17-01	17:15	1		1																											✓	✓
SEA-ARA-1001-SS-DB-120-0	8-17-01	17:25	2		1																											✓	✓
~~SEA-ARA-1001-SS-DB-120-0~~	~~8-17-01~~	DM																														~~✓~~	DM
~~SEA-ARA-1004-SS-12-174-0~~	~~8-17-01~~	~~12:45~~			1	This sample ID requested on separate COC.																										✓	✓
SEA-ARA-1001-SS-16-230-0	8-17-01	17:30	3		1																											✓	✓
SEA-ARA-1001-SS-14-028-0	8-17-01	17:10	4		1																											✓	✓
SEA-ARA-1001-SS-14-014-0	8-17-01	~~17:05~~ 16:52 DM	5		1																											✓	✓
SEA-ARA-1001-SS-D6-018-0	8-17-01	17:05	6		1																											✓	✓
SEA-ARA-1001-SS-06-114-0	8-17-01	17:20	7		1																											✓	✓

Comments:
ALL ANALYSES PER SOW
7 DAY T.A.T. FOR RADS

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108180 3 [redacted] **INITIALS:** [redacted] **DATE:** 8-21-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2/cooler	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s	1	2	3			
Temperature	2°C	5°C	Ambient (RAD)			°C

Project Manager Signature / Date: [redacted] 8-22-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0108183

[redacted]

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number 0108183 Chain-of-Custody No. N/A

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... Yes No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No NA

How many & where: 2 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... Yes No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... Yes No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... Yes No NA
8. Was project identifiable from custody papers? ..... Yes No NA
9. If required, was enough ice present in the cooler(s)? ..... Yes No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-26-01

B. Log-In-Phase Date samples were logged in: 8-21-01

[redacted]

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... Yes No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... Yes No NA
14. Was all required bottle label information complete? ..... Yes No NA
15. Did all bottle labels agree with custody papers? ..... Yes No NA
16. Were correct containers used for the analyses indicated: ..... Yes No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No NA
18. Was a sufficient amount of sample sent for the analyses required? ..... Yes No NA
19. Were bubbles absent in VOA vials? ..... Yes No NA

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108194

Chain-of-Custody

Date 8-21-01 Page 1 of ___

Project Name / No.: SEAWAY L.F. Sampler: [redacted] (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 MARSHY SWAMP PT
KNOXVILLE TN. 37932

circle method or specify under comments

Sample ID	Date	Time * 14:50	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals AND RAD SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS ASPER SOW	TOTAL TCLP RADS AS PER SOW
SEA-ARA-2002-SS-24-228-0	8-21-01	~~8-21-01~~ PM	1	S	3								X	X																		X	X
SEA-ARA-2002-SS-24-228-1	8-21-01	14:50 ~~8-21-01~~ PM	2	S	3								X	X																		X	X
SEA-ARA-2002-SS-06-186-0	8-21-01	15:00	3	S	3								X	X																		X	X
SEA-ARC-1004-SS-12-012-0	8-21-01	11:50	4	S	3								X	X																		X	X
SEA-ARC-1004-SS-24-240-1	8-21-01	11:40	5	S	3								X	X																		X	X
SEA-ARC-1004-SS-24-240-0	8-21-01	11:40	6	S	3								X	X																		X	X
SEA-ARC-1004-SS-24-204-1	(8-21-01)	11:15		S	2								X	X																			
SEA-ARC-1004-SS-24-204-0	8-21-01	11:15	7	S	3								X	X																		X	X
SEA-ARC-1003-SS-12-080-0	8-19-01	12:20	8	S	1																											X	X
TEMP BLANK	—	—		H_2O	1																												

[redacted]

Comments:

ALL ANALYSES PER SOW
7 DAY T.A.T. FOR RADS
14 DAY T.A.T. FOR TCLP

Form 202r4.xls (1/3/01

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108194

Chain-of-Custody

Date 8-21-01 Page 2 of ___

Project Name / No.: SEAL JAY Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 MARSHY SWAMP PT
KNOXVILLE TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER S.O.W.	TOTAL TCLP RADS ASPER S.O.W.
SEA-ARC-1008-SS-12-054-0	8-19-01	17:55	9	S	1																											X	X
SEA-ARC-1008-SS-06-076-0	8-19-01	18:05	10	S	1																											X	X
SEA-ARC-1003-SS-06-102-0	8-19-01	11:50	11	S	1																											X	X
SEA-ARC-1004-SS-024-204-1	8-21-01	11:15	12	S	1																											X	X
SEA-ARC-1003-SS-06-168-0	8-19-01	12:35	13	S	1																											X	X
SEA-ARC-1003-SS-06-096-0 SEA-ARC	8-19-01	12:05	14	S	1																											X	X
SEA-ARC-1008-SS-06-036-0	8-19-01	17:45	15	S	1																											X	X
SEA-ARC-1003-SS-12-132-0	8-19-01	11:35	16	S	1																											X	X
SEA-ARC-1008-SS-06-042-0	8-19-01	17:35	17	S	1																											X	X
SEA-ARC-1008-SS-12-032-0	8-19-01	17:15	18	S	1																												

[redacted]

Comments:
ALL ANALYSES PER S.O.W.
7 DAY T.A.T. FOR RADS
14 DAY TAT FOR TCLP

Form 202r4.xls (1/3/01

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments. Distribution: white / yellow (Paragon); pink retained by originator.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108194 **INITIALS:** [redacted] **DATE:** 8-22-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 0	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1 2 ___ ___ ___ ___

Temperature 3°C AMBIENT (RAD) ___ ___ ___ °C

Project Manager Signature / Date: [redacted] 8-23-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108194 **INITIALS:** [redacted] **DATE:** 8-22-01

- ☐ Custody seals on outside of shipping container broken.
- ☐ Custody seals on sample containers were broken.
- ☐ No Chain-of-Custody (COC) present.
- ☐ Number of samples on the COC do not match the number of samples received.
- ☐ Aqueous samples not preserved correctly (see pH discussion below).
- ☐ Samples received at inappropriate temperature.
- ☐ Insufficient sample to perform requested analyses.
- ☐ Extraction or analytical holding times expired in transit.
- ☐ Broken/leaking bottles and intact bottles received in same cooler (list affected sample IDs below)
- ☐ No analyses requested.
- ☐ Incorrect sample type received.
- ☐ VOAs, reactive CN/S, radon not headspace free (list sample IDs and affected vials below)
- ☐ Airbills not present and/or removable (record applicable shipper's tracking number below)
- ☐ Other

Describe discrepancy:

No Custody Seals on Cooler; Coolers received sealed with duct tape TAPE INTACT on ALL CONTAINERS

↳ Proceed with analyses per client

Sample ID SEA-ARC-1004-SS-024-204-1 appears inconsistent with other sample ID's; appears that "024" should be "24". Waiting for confirmation from client.

↳ logged as "24" per client

Was the client contacted? ___ No; ✓ Yes: Name [redacted] Date/Time 8-22-01 + 8-23-01

Was the pH of any sample adjusted by the laboratory? ___ No; ___ Yes (see Table below):

NOTE: No pH adjustments shall be made without prior consent of Project Manager. After pH adjustment, hold metals samples ≥ 16 hr before analysis and radchem samples ≥ 24 hr before analysis.

Sample ID	*Initial pH*	*Final pH (wait 30 min)*	*Type of Reagent Used*	*Lot No. of Reagent Used*	*Initials / Date / Time*

Project Manager Signature / Date: [redacted] 8-23-01

0108194

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number _____ Chain-of-Custody No. _____

Project: _____ Date received: 8-22-01

[redacted] 8-22-01

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... Yes No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes No NA

How many & where: _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... Yes No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... Yes No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... Yes No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... Yes No NA
8. Was project identifiable from custody papers? ..... Yes No NA
9. If required, was enough ice present in the cooler(s)? ..... Yes No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-22-01

B. Log-In-Phase Date samples were logged in: 8-22-01

[redacted]

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... Yes No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... Yes No NA
14. Was all required bottle label information complete? ..... Yes No NA
15. Did all bottle labels agree with custody papers? ..... Yes No NA
16. Were correct containers used for the analyses indicated: ..... Yes No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No NA
18. Was a sufficient amount of sample sent for the analyses required? ..... Yes No NA
19. Were bubbles absent in VOA vials? ..... Yes No NA

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0108195

Chain-of-Custody

Date 8-21-01 Page 1 of ___

Project Name / No.: SEAWAY L.F. Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 MARSHY SWAMP PT
KNOXVILLE TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals AND RADS SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-96 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER SOW	TOTAL TCLP RADS AS PER SOW
SEA-ARA-2002-SS-24-228-0	8-21-01	~~8-21-01~~ 14:50	DM 1	S	3								X	X																		X	X
SEA-ARA-2002-SS-24-228-1	8-21-01	~~8-21-01~~ 14:50	DM 2	S	3								X	X																		X	X
SEA-ARA-2002-SS-06-186-0	8-21-01	15:00	3	S	3								X	X																		X	X
SEA-ARC-1004-SS-12-012-0	8-21-01	11:50	4	S	3								X	X																		X	X
SEA-ARC-1004-SS-24-240-1	8-21-01	11:40	5	S	3								X	X																		X	X
SEA-ARC-1004-SS-24-240-0	8-21-01	11:40	6	S	3								X	X																		X	X
SEA-ARC-1004-SS-24-204-1	(8-21-01)	11:15	7	S	2								X	X																			
SEA-ARC-1004-SS-24-204-0	8-21-01	11:15	8	S	3								X	X																		X	X
SEA-ARC-1003-SS-12-080-0	8-19-01	12:20	9	S	1																											X	X
TEMP BLANK	—			H2O	1																												

Comments:
ALL ANALYSES PER SOW
7 DAY T.A.T. FOR RADS
14 DAY T.A.T. FOR TCLP

[redacted]

Form 202r4.xls (1/3/01

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments. Distribution: white / yellow (Paragon); pink retained by originator.

Paragon Analytics, Inc.
225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Chain-of-Custody

Accession Number (LAB ID) 0108195

Date 8-21-01 Page 2 of ___

Project Name / No.: SEAWAY Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 MARSHY SWAMP PT
KNOXVILLE TN. 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E625 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS AS PER S.O.W.	TOTAL TCLP RADS ASPER SOW.
SEA-ARC-1008-SS-12-054-0	8-19-01	17:55	10	S	1																											X	X
SEA-ARC-1008-SS-06-076-0	8-19-01	18:05	11	S	1																											X	X
SEA-ARC-1003-SS-06-102-0	8-19-01	11:50	12	S	1																											X	X
SEA-ARC-1004-SS-024-204-1	8-21-01	11:15	13	S	1																											X	X
SEA-ARC-1003-SS-06-168-0	8-19-01	12:35	14	S	1																											X	X
~~SEA-ARC~~ SEA-ARC-1003-SS-06-096-0	8-19-01	12:05	15	S	1																											X	X
SEA-ARC-1008-SS-06-036-0	8-19-01	17:45	16	S	1																											X	X
SEA-~~ARC~~ ARC-1003-SS-12-132-0	8-19-01	11:35	17	S	1																											X	X
SEA-ARC-1008-SS-06-042-0	8-19-01	17:35	18	S	1																											X	X
SEA-ARC-1008-SS-12-032-0	8-19-01	17:15	19	S	1																											X	X

Comments:
ALL ANALYSES PER S.O.W.
7 DAY T.A.T. FOR RADS
14 DAY TAT FOR TCLP

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAFC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108196 **INITIALS:** [redacted] **DATE:** 8-22-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 0	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s	1	2				
Temperature	3°C	AMBIENT (RAD)				°C

Project Manager Signature / Date: [redacted] 8-23-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0108195 **INITIALS:** [redacted] **DATE:** 8-22-01

- ☐ Custody seals on outside of shipping container broken.
- ☐ Custody seals on sample containers were broken.
- ☐ No Chain-of-Custody (COC) present.
- ☐ Number of samples on the COC do not match the number of samples received.
- ☐ Aqueous samples not preserved correctly (see pH discussion below).
- ☐ Samples received at inappropriate temperature.
- ☐ Insufficient sample to perform requested analyses.
- ☐ Extraction or analytical holding times expired in transit.
- ☐ Broken/leaking bottles and intact bottles received in same cooler (list affected sample IDs below)
- ☐ No analyses requested.
- ☐ Incorrect sample type received.
- ☐ VOAs, reactive CN/S, radon not headspace free (list sample IDs and affected vials below)
- ☐ Airbills not present and/or removable (record applicable shipper's tracking number below)
- ☐ Other

Describe discrepancy:

No Custody Seals on Cooler; Coolers received sealed with duct tape TAPE INTACT on ALL CONTAINERS.

↳ Proceed with analyses per client

Sample ID SEA-ARC-1004-SS-024-204-1 appears inconsistent with other sample ID's. Appears that "024" should be "24". Waiting for confirmation from client.

↳ logged as "24" per client

Was the client contacted? ___ No; ✓ Yes: [redacted] e/Time 8-22-01 + 8-23-01

Was the pH of any sample adjusted by the laboratory? ___ No; ___ Yes (see Table below):

NOTE: No pH adjustments shall be made without prior consent of Project Manager. After pH adjustment, hold metals samples ≥ 16 hr before analysis and radchem samples ≥ 24 hr before analysis.

Sample ID	*Initial pH*	*Final pH (wait 30 min)*	*Type of Reagent Used*	*Lot No. of Reagent Used*	*Initials / Date / Time*

Project Manager Signature / Date: [redacted] / 8-23-01

0108196

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number _____ Chain-of-Custody No. _____

Project: _____ Date received: 8-22-01

[redacted] 8-22-01

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... **Yes** No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... Yes **No** NA

How many & where: _____ Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... Yes No **NA**
4. Did you screen samples for radioactivity using a Geiger Counter? ..... **Yes** No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... **Yes** No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... **Yes** No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... **Yes** No NA
8. Was project identifiable from custody papers? ..... **Yes** No NA
9. If required, was enough ice present in the cooler(s)? ..... **Yes** No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) [redacted] Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 8-22-01

[redacted] 8-22-01

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... **Yes** No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... **Yes** No NA
14. Was all required bottle label information complete? ..... **Yes** No NA
15. Did all bottle labels agree with custody papers? ..... **Yes** No NA
16. Were correct containers used for the analyses indicated: ..... **Yes** No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No **NA**
18. Was a sufficient amount of sample sent for the analyses required? ..... **Yes** No NA
19. Were bubbles absent in VOA vials? ..... Yes No **NA**

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0109025

Chain-of-Custody

Date 09-04-01 Page 1 of 1

Project Name / No.: SEAWAR 01-0801-08-5100-160 Sampler(s): D.KING/B. WILSON (circle one) Turnaround: Standard or Rush (Due STANDARD) Dispose or Return to Client

[redacted]

Fax: 865-769-5313
Company: SAIC
Address: 2012 MARSHY SWAMP PT
KNOXVILLE, TN 37932

circle method or specify under comments

	Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + RADS SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200 ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS PER SOW	
SEA	ARC-2009-SS-12-390-0	9-3-1	1830	1	SS	3								✓	✓																		✓	
SEA	ARC-2009-SS-06-396-0	9-3-1	1815	2	SS	3								✓	✓																		✓	
SEA	ARC-2009-SS-12-444-0	9-3-1	1850	3	SS	3								✓	✓																		✓	
SEA	ARC-2013-SS-12-624-0	9-3-1	1635	4	SS	3								✓	✓																		✓	
SEA	ARC-2013-SS-06-636-0	9-3-1	1707	5	SS	3								✓	✓																		✓	
SEA	ARC-2013-SS-24-660-0	9-3-1	1735	6	SS	3								✓	✓																		✓	
	Temperature Blank					1																												

Comments:
ALL ANALYES PER SOW
14 DAY TAT FOR RAD AND TCLP

TOTAL RAD ONLY

[redacted]

Form 202r4.xls (1/3/01

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

Distribution: white / yellow (Paragon); pink retained by originator.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: [redacted] **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0109025 **INITIALS:** [redacted] **DATE:** 9-5-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 1	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C °C

Project Manager Signature / Date: [redacted] 9-6-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Table 5-1. Example of a Cooler Receipt Checklist

0109025

COOLER RECEIPT CHECKLIST

LIMS number _____ Chain-of-Custody No. _____

Project: _____ Date received: 9-5-01

A. Preliminary Examination Phase Date cooler(s) opened: 9-5-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 1 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA
8. Was project identifiable from custody papers? ..... (Yes) No NA
9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 9-5-01

B. Log-In-Phase Date samples were logged in: 9-5-01

[redacted]

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA
14. Was all required bottle label information complete? ..... (Yes) No NA
15. Did all bottle labels agree with custody papers? ..... (Yes) No NA
16. Were correct containers used for the analyses indicated: ..... (Yes) No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)
18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA
19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0109026

Chain-of-Custody

Date 09-04-01 Page 1 of 1

Project Name / No.: SEAWAR 01-0801-08-SEO-160 Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due STANDARD) Dispose or Return to Client

[redacted]

Fax: 865-769-5313
Company: SAIC
Address: 2-12 MARSHY SWAMP PT
KNOXVILLE, TN 37932

circle method or specify under comments

	Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO___	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO___	OC Pesticides SW8081A E608 E508 OLMO___	PCBs SW8082 E608 E508 OLMO___	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals + RADS SW 1311 6010B 7471	Total Metals SW6010B 7470 7471 E200 ILMO___	Dissolved Metals SW6010B 7470 E200. ILMO___	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle) Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	TOTAL RADS PER SOW	
SEA	ARC-2004-SS-12-390-0	9-3-1	1830	1	SS	3								✓	✓																		✓	
SEA	ARC-2004-SS-06-396-0	9-3-1	1815	2	SS	3								✓	✓																		✓	
SEA	ARC-2004-SS-12-444-0	9-3-1	1850	3	SS	3								✓	✓																		✓	
SEA	ARC-2013-SS-12-624-0	9-3-1	1635	4	SS	3								✓	✓																		✓	
SEA	ARC-2013-SS-06-636-0	9-3-1	1707	5	SS	3								✓	✓																		✓	
SEA	ARC-2013-SS-24-660-0	9-3-1	1735	6	SS	3								✓	✓																		✓	
	Temperature Blank					1																												

Comments:
ALL ANALYES PER SOW
14 DAY TAT FOR RAD AND TCLP

TCLP

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC PROJECT MANAGER: [redacted]

WORKORDER NO: 0109026 INITIALS: [redacted] DATE: 9-5-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 1	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble: ___ < green pea; ___ > green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1

Temperature 4°C °C

Project Manager Signature / Date: [redacted] / 9-6-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

0109026

Table 5-1. Example of a Cooler Receipt Checklist

COOLER RECEIPT CHECKLIST

LIMS number _____ Chain-of-Custody No. _____

Project: _____ Date received: 9-5-01

A. Preliminary Examination Phase Date cooler(s) opened: 9-5-01

[redacted]

Circle response below as appropriate

1. Did cooler(s) come with a shipping slip (airbill, etc.)? ..... (Yes) No NA

If YES, enter courier name & airbill number here: _____

2. Were custody seals on outside of cooler(s)? ..... (Yes) No NA

How many & where: 1 Seal date: _____ Seal name: _____

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No NA
4. Did you screen samples for radioactivity using a Geiger Counter? ..... (Yes) No NA
5. Were custody papers sealed in a plastic bag & taped inside the cooler lid? ..... (Yes) No NA
6. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No NA
7. Did you sign custody papers in the appropriate place for acceptance of custody? ..... (Yes) No NA
8. Was project identifiable from custody papers? ..... (Yes) No NA
9. If required, was enough ice present in the cooler(s)? ..... (Yes) No NA

Identify type of ice used in cooler and temperature reading upon receipt: _____

Source of temperature reading (check one): Temperature Vial ( ) Sample Material (X)

10. Initial and date this form to acknowledge receipt of cooler(s): (initial) [redacted] (date) 9-5-01

B. Log-In-Phase Date samples were logged in: 9-5-01

[redacted]

11. Describe type of packing in cooler(s): _____
12. Were all bottles sealed in separate plastic bags? ..... (Yes) No NA
13. Did all bottles arrive unbroken & were labels in good condition? ..... (Yes) No NA
14. Was all required bottle label information complete? ..... (Yes) No NA
15. Did all bottle labels agree with custody papers? ..... (Yes) No NA
16. Were correct containers used for the analyses indicated: ..... (Yes) No NA
17. Were correct preservatives placed into the sample containers? ..... Yes No (NA)
18. Was a sufficient amount of sample sent for the analyses required? ..... (Yes) No NA
19. Were bubbles absent in VOA vials? ..... Yes No (NA)

If no, list by sample number: _____

20. Has a copy of this Cooler Receipt Checklist been faxed to the SAIC Laboratory Coordinator? ..... Yes No NA

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0109036

Chain-of-Custody

Date 9/5/01 Page 1 of 1

Project Name / No.: Seawley Land fill Sampler(s): [redacted] (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Company: SAIC
Address: 2012 Marshy Swamp Rd
Knoxville, TN 37932

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs SW8260B E624 E524.2 OLMO__	BTEX (only) SW8021B	SVOCs SW8270C E625 E525 OLMO__	OC Pesticides SW8081A E608 E508 OLMO__	PCBs SW8082 E608 E508 OLMO__	OP Pesticides SW8141A E614	Herbicides SW8151A E615	TCLP Organics SW1311 8260B 8270C 8081A 8151A	TCLP Metals SW 1311 6010B 7471	Total Metals (TAL) SW6010B 7470 7471 E200 ILMO__	Dissolved Metals SW6010B 7470 E200 ILMO__	Reactive CN / S SW846 Chapter 7	Hexavalent Chromium SW7196A Alkaline Digest? Y / N	Inorganic Anions ** SW9056 E300.0	pH SW9040B 9045C	Oil & Grease SW9071A E413.2	TPH GRO DRO SW8015B (both)	TOX SW9020B	Gross Alpha / Beta SW9310 E900.0	Actinides by PAI SOP (circle) Pu / U / Am / Th / Cm	Total Uranium by KPA D5174-91	Tritium E906.0	Total Alpha-Emitting Radium SW9315 E903.0	Radium 226 SW9315 E903.0 Radium 228 SW9320 E904.0	Strontium 89 D5811-95 Strontium 90 D5811-95	Gamma Isotopes ** E901.1	Total Rads per SOW	
EB-1	9/5/01	1530	1	W	14	X		X	X	X		X			X																	X	
Temperature Blank	—	—		W	1																												
Trip Blank	—	—	2	W	2																												

Comments:

All Analysis per SOW

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST ** Indicate specific analytes under comments. Distribution: white / yellow (Paragon); pink retained by originator.

Paragon Analytics, Inc.

225 Commerce Drive Fort Collins, CO 80524
800-443-1511 or (970) 490-1511 (970) 490-1522 Fax

Accession Number (LAB ID) 0109036

Chain-of-Custody

Date 9/6/01 Page 1 of 1

Project Name / No.: SeaWay Land Fill Sampler(s): [redacted] [redacted] (circle one) Turnaround: Standard or Rush (Due _____) Dispose or Return to Client

[redacted]

Company: 865-769-5313
Address: SAIC
2012 Marshy Swamp Pt
Knoxville, TN

circle method or specify under comments

Sample ID	Date	Time *	Lab ID	Matrix	No. of Containers	VOCs (SW8260B E624 E524.2 OLMO___)	BTEX (only) (SW8021B)	SVOCs (SW8270C E625 E525 OLMO___)	OC Pesticides (SW8081A E608 E508 OLMO___)	PCBs (SW8082 E608 E508 OLMO___)	OP Pesticides (SW8141A E614)	Herbicides (SW8151A E615)	TCLP Organics (SW1311 8260B 8270C 8081A 8151A)	TCLP Metals (SW 1311 6010B 7471)	Total Metals (HTAL) (SW6010B 7470 7471 E200 ILMO___)	Dissolved Metals (SW6010B 7470 E200 ILMO___)	Reactive CN / S (SW846 Chapter 7)	Hexavalent Chromium (SW7196A Alkaline Digest? Y / N)	Inorganic Anions ** (SW9056 E300.0)	pH (SW9040B 9045C)	Oil & Grease (SW9071A E413.2)	TPH (GRO DRO SW8015B (both))	TOX (SW9020B)	Gross Alpha / Beta (SW9310 E900.0)	Actinides by PAI SOP (circle): Pu / U / Am / Th / Cm	Total Uranium by KPA (D5174-91)	Tritium (E906.0)	Total Alpha-Emitting Radium (SW9315 E903.0)	Radium 226 (SW9315 E903.0) Radium 228 (SW9320 E904.0)	Strontium 89 (D5811-95) Strontium 90 (D5811-95)	Gamma Isotopes ** (E901.1)	Total Reds per SOW	
SW-1	9/6/01	0730	3	W	14	X		X	X	X		X			X																X	
EB-2	9/6/01	1630	4	W	14	X		X	X	X		X			X																X	
Temperature Blank	—	—		W	2																											
Trip Blank	—	—	5	W	2	X																										

Comments:
All Analysis per SOW

[redacted]

Form 202r4.xls (1/3/01)

* Time Zone (circle one): EST CST MST PST

** Indicate specific analytes under comments.

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0109036 **INITIALS:** [redacted] **DATE:** 9-10-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2/cooler	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble:** X **< green pea;** ___ **> green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s 1 2 ___ ___ ___ ___

Temperature 6°C AMBIENT (RAD) ___ ___ ___ °C

Project Manager Signature / Date: [redacted] / 9-10-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0109036 **INITIALS:** [redacted] **DATE:** 9-6-01

- ☐ Custody seals on outside of shipping container broken.
- ☐ Custody seals on sample containers were broken.
- ☐ No Chain-of-Custody (COC) present.
- ☐ Number of samples on the COC do not match the number of samples received.
- ☐ Aqueous samples not preserved correctly (see pH discussion below).
- ☐ Samples received at inappropriate temperature.
- ☐ Insufficient sample to perform requested analyses.
- ☐ Extraction or analytical holding times expired in transit.
- ☐ Broken/leaking bottles and intact bottles received in same cooler (list affected sample IDs below)
- ☐ No analyses requested.
- ☐ Incorrect sample type received.
- ☒ VOAs, reactive CN/S, radon not headspace free (list sample IDs and affected vials below)
- ☐ Airbills not present and/or removable (record applicable shipper's tracking number below)
- ☐ Other

Describe discrepancy:

TRIP BLANK 2 of 2 EPA

Was the client contacted? ___ No; ✓ Yes: [redacted] Date/Time 9-7+10-01 / via email + fax

Was the pH of any sample adjusted by the laboratory? ___ No; ___ Yes (see Table below):

NOTE: No pH adjustments shall be made without prior consent of Project Manager. After pH adjustment, hold metals samples ≥ 16 hr before analysis and radchem samples ≥ 24 hr before analysis.

Sample ID	*Initial pH*	*Final pH (wait 30 min)*	*Type of Reagent Used*	*Lot No. of Reagent Used*	*Initials / Date / Time*

Project Manager Signature / Date: [redacted] 9-10-01

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: 3AIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0109036 **INITIALS:** [redacted] **DATE:** 9-7-01

1. Does this project require any special handling in addition to standard Paragon procedures?		Yes	No
IS PRE-SCREENING REQUIRED? (radiochemistry, DOE, etc.)		Yes	No
2. Are custody seals on shipping containers intact? How many custody seals are provided? 2/cooler	N/A	Yes	No
3. Are the custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain-of-Custody (COC) or other representative documents, letters, or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Analyses Requested: Yes ✓ No___	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___	N/A	Yes	No
7. Were COC (if applicable) and sample labels legible?		Yes	No
8. Were airbills present and/or removable?		Yes	No
9. Are all aqueous samples requiring chemical preservation preserved correctly (excluding volatile organics)?	N/A	Yes	No
Are all aqueous **non-preserved** samples at the correct pH?		Yes	No
10. Is there enough sample for requested analyses? If so, were samples placed in the proper containers?		Yes	No
11. Are all samples within holding times for the requested analyses?		Yes	No
12. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
13. Are samples requiring no headspace (volatiles, reactive cyanide/sulfide, radon), headspace free? **Size of bubble:** X **< green pea;** ___ **> green pea** (List sample IDs and affected containers on Page 2)	N/A	Yes	No
14. Is Paragon to dispose of samples?		Yes	No
15. Were the sample(s) shipped on ice?	N/A	Yes	No
16. Were cooler temperatures measured at 2 - 6 °C ?	N/A	Yes	No
17. Were all samples cooled that should have been cooled?		Yes	No

Cooler #'s	1	2	3			
Temperature	3°C	0°C	AMBIENT (RAD)			°C

Project Manager Signature / Date: [redacted] / 9-10-01

A NO RESPONSE TO ANY QUESTION (EXCEPT # 1 and #14 REQUIRES THE COMPLETION OF PAGE 2 OF THIS FORM

Paragon Analytics, Inc. -- Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT FORM

CLIENT: SAIC **PROJECT MANAGER:** [redacted]

WORKORDER NO: 0109036 **INITIALS:** [redacted] **DATE:** 9-7-01

- ☐ Custody seals on outside of shipping container broken.
- ☐ Custody seals on sample containers were broken.
- ☐ No Chain-of-Custody (COC) present.
- ☐ Number of samples on the COC do not match the number of samples received.
- ☐ Aqueous samples not preserved correctly (see pH discussion below).
- ☐ Samples received at inappropriate temperature.
- ☐ Insufficient sample to perform requested analyses.
- ☐ Extraction or analytical holding times expired in transit.
- ☐ Broken/leaking bottles and intact bottles received in same cooler (list affected sample IDs below)
- ☐ No analyses requested.
- ☐ Incorrect sample type received.
- ☒ VOAs, reactive CN/S, radon not headspace free (list sample IDs and affected vials below)
- ☐ Airbills not present and/or removable (record applicable shipper's tracking number below)
- ☐ Other

Describe discrepancy:
TRIP BLANK 2 of 2 cpa

Was the client contacted? ___ No; ✓ Yes: [redacted] Date/Time 9-7-01 / via e-mail + fax

Was the pH of any sample adjusted by the laboratory? ___ No; ___ Yes (see Table below):

NOTE: No pH adjustments shall be made without prior consent of Project Manager. After pH adjustment, hold metals samples ≥ 16 hr before analysis and radchem samples ≥ 24 hr before analysis.

Sample ID	*Initial pH*	*Final pH (wait 30 min)*	*Type of Reagent Used*	*Lot No. of Reagent Used*	*Initials / Date / Time*

Project Manager Signature / Date: [redacted] 9-10-01

EXHIBIT J

FIELD CHANGE REQUESTS

EXHIBIT J

FIELD CHANGE REQUESTS

Field Change Request (FCR)

FCR No. SEA-001 Date Initiated 8/13/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE [redacted]

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **FSP, Table 3-1; QAPP Table 4-2**
DESCRIPTION OF CHANGE: Change Sample Numbering Scheme to the following to accommodate indication of Sample Interval Size and sample bottom depth:
Sample Identification: XXX-AANNNmmnndddz
XXX = Site Designator – Seaway Site = SEA (no change to plan)
AAA = Project Designator where COR –Correlation Study data; ARA – Area A data; ARB-Area B; AR-Area C data (no change to plan)
NNNN=Sample Boring Location Number (0000 – 8999; 9001 to 9999 indicated duplicates) **(REVISED LOCATION OF IDENTIFIER)**
mm=Sample Media (no changes to plan)
nn=Sample thickness (Inches) **(REVISION)**
ddd=Sample Bottom Depth (inches) **(ADDITION)**
z=Sample Type (no change to plan)

JUSTIFICATION: Clarification only.
Change needed to allow for more accurate identification of sample intervals.

IMPACT OF NOT IMPLEMENTING REQUEST
Could lead to confusion about where sample was taken from since original fields allowed for 0-2 feet. Wanted better accuracy.

COST ESTIMATE ($) N/A ESTIMATOR SIGNATURE _____

PHONE _____ DATE _____

PREVIOUS FCR AFFECTED YES X NO; IF YES, FCR NO. _____

CLIENT PROJECT MANA[redacted] DATE 14 Aug 01 OK

CLIENT QA SPECIALIST[redacted] DATE 14 August 01

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____

Field Change Request (FCR)

FCR No. SEA-002 Date Initiated 8/14/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE [redacted]

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **QAPP Table 4-1**
DESCRIPTION OF CHANGE:
Change container type for radiological samples from 16 oz. Wide mouth glass jar with Teflon-lined cap to a 1-quart metal container.

JUSTIFICATION: After completion of the Work Plan, the arrangement to use the BEGe system from the St. Louis District was completed. To eliminate the double handling of soil samples possibly resulting in a chain-of custody issues, it would be preferable to place the soil sample into a single container of the appropriate geometry that can be analyzed directly while in the container without having to remove the material. The BEGe is calibrated for two types of containers, a 1-quart metal container and Petri-dish. The latter would require double handling. The 1-quart metal container will also serve as the shipping container for the off site radiological` analysis.

IMPACT OF NOT IMPLEMENTING REQUEST
Soil samples would have to be handled twice thus creating the possibility of errors introduced into the data quality. The double handling also results in delays associated with the processing of the samples for eventual shipment to the lab for analyses. Quick turnaround on sample results is a critical factor to the success of this field effort.

COST ESTIMATE ($) N/A ESTIMATOR SIGNATURE _____

PHONE _____ DATE _____

PREVIOUS FCR AFFECTED YES X NO; IF YES, FCR NO. _____

CLIENT PROJECT MANAGE[redacted]ATE 16AUG01

CLIENT QA SPECIALIST [redacted]ATE 16AUG01

SAIC H&S MANAGER SIGN[redacted] DATE _____

Field Change Request (FCR)

FCR No. SEA-003 Date Initiated 8/15/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE ([redacted]

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **FSP Sec. 1, pg. 1-8, Item 3C; FSP Sec. 2.2.2.1, 2nd para.; and other locations throughout the plans**

DESCRIPTION OF CHANGE:

Change the requirement to perform chemical analysis (TCL/TAL/PCB/Etc.) based on organic probe (PID) checks at 2-foot intervals on all removed cores. Change to requiring that the analysis be limited as follows: 1) Reference Boring 1 sample; 2) Area A – screen each core and ship samples for up to two samples, then discontinue sample shipments; 3) Area B – screen each core and ship samples for up to one sample, then discontinue sample shipments; 4) Area C – screen each core and ship samples for up to two samples, then discontinue sample shipments. OK. Additional samples above those listed will be [redacted] considered if there are PID or visual information that shows conditions significantly different from samples previously collected.

JUSTIFICATION: This data was identified as being needed for assessing the potential health and sa[redacted] hazards that may be present during any future remediation work in these areas. Considering that this is a landfill, the data from these limited number of samples should be sufficient to confirm that there will be landfill chemicals and gases that will need to be addressed in remediation health and safety plans. Gathering extensive amount of this data will 1) not add any significant additional information that would alter the remediation H&S plan which will most likely require Level C protection, and 2) the additional sample volumes needed will impact the amount of sample volumes available for all of the radiological and TCLP analyses required for determining nature and extent of the MED-related contamination in Areas A, B and C.

IMPACT OF NOT IMPLEMENTING REQUEST

The additional sample volumes needed will impact the amount of volume sample volumes available for all of the radiological and TCLP analyses required for determining nature and extent of the MED-related contamination in Areas A, B and C.

COST ESTIMATE ($) Result in Analytical Cost Approximating that that was negotiated

ESTIMATOR SIGNATURE _____

PHONE [redacted] DATE 8/15/01

PREVIOUS FCR AFFECTED __YES X NO; IF YES, FCR NO. _____

CLIENT PROJECT MA[redacted] DATE 15 AUG 01

CLIENT QA SPECIALI[redacted] DATE 15 AUG 01

SAIC H&S MANAGER [redacted] DATE _____

Field Change Request (FCR)

FCR No. SEA-004 Date Initiated 8/15/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE (865) 769-5314

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **GENERAL- Field Clarification**
DESCRIPTION OF CHANGE:
Place all removed cores on plastic and wrapped by flipping the plastic over the core and then place heavy object over ends to keep the wrap from becoming unwrapped. These cores will remain at the boring location and the PVC piping will remain in the holes for the duration of the project. After all borings are completed and logged, then the casings will be removed and the excess non-radiologically contaminated cores placed back into the holes.

ISSUE COORDINATED WITH JOHN MITCHELL IN-FIELD. HE CONCURRED [redacted]

JUSTIFICATION: This allows for the borings to remain open for additional in-hole gamma logging should the need arise based on subsequent field results and observations.

IMPACT OF NOT IMPLEMENTING REQUEST
If boring casings are removed and filled within a day after logging the hole, then that location is no longer available for additional logging should the Team decide it would be beneficial to do so.

COST ESTIMATE ($) N/A
ESTIMATOR SIGNATURE _____

PHONE _____ DATE _____

PREVIOUS FCR AFFECTED __YES X NO; IF YES, FCR NO. _____

CLIENT PROJECT MAN[redacted] DATE 15 AUG 01

CLIENT QA SPECIALIS[redacted] DATE 15 AUG 01

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____

Field Change Request (FCR)

FCR No. SEA-005 Date Initiated 8/15/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE ([redacted]

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **Addition of Biased Location ARC1008**

DESCRIPTION OF CHANGE:

The plan calls for seven biased locations in Area C. Another biased location (ARC1008) was determined in the field to be beneficial based on the results from the other biased borings, which showed thick lenses of highly elevated in-hole gamma results. This boring and location was chosen to determine if there might be a pile of MED-related material between the two locations, ARC1002 and ARC2003.

JUSTIFICATION: The addition of another biased boring location would assist in determining whether the material remained as piles based on the approach used in locating the biased locations to begin with –i.e., locate the piles on the aerial photo and locate a boring at that location. The new boring (ARC1008) confirmed that this approach was working.

IMPACT OF NOT IMPLEMENTING REQUEST

None.

COST ESTIMATE ($) N/A

ESTIMATOR SIGNATURE _____

PHONE _____ DATE _____

PREVIOUS FCR AFFECTED __YES X NO; IF YES, FCR NO. _____

CLIENT PROJECT MANAGE[redacted] DATE 29 OCT 01

CLIENT QA SPECIALIST _____ DATE _____

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____

NOT A SCOPE CHANGE

Field Change Request (FCR)

FCR No. SEA-006 Date Initiated 8/17/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE [redacted]

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **Seaway Cost Estimate**
DESCRIPTION OF CHANGE:
Due to the nature of findings in the first set of borings and the better understanding of what is involved in making field decisions regarding the placement of the borings and the associated depths, USACE requested that the Project Manager remain on-site for the full duration of the field activities during both scheduled cycles while field decisions were still being made. The original, negotiated cost estimate for the field activity had included only 40 hours for the Project Manager and travel for the first three to four days of the first cycle.

JUSTIFICATION: The decisions being made in the field had to rely on individuals with extensive background knowledge regarding Seaway and the history of placement of materials. This enables adjustments to conceptual models based on current field findings and historical information.

IMPACT OF NOT IMPLEMENTING REQUEST
If the Project Manager was not on the site for field activities, the field effort may have stuck to the specific areas designated in the Work Plan and may not have fully defined the extent of contamination since the plans called for sampling at anticipated pile locations and along area perimeters. Field decisions would have been limited in terms of historical knowledge and past thoughts regarding conceptual models, and not been able to best use real time data collected in the field.

COST ESTIMATE ($) Increase in Project Manager hours and additional travel expenses

ESTIMATOR SIGNATURE [redacted]

PHONE (865) 769-5314 DATE 8/17/01

PREVIOUS FCR AFFECTED [redacted]

CLIENT PROJECT MANAGE[redacted] DATE 29 OCT 01

CLIENT QA SPECIALIST [redacted] DATE

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) [redacted] DATE

Field Change Request (FCR)

FCR No. SEA-007 Date Initiated 8/28/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE (865) 769-5314

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **In-hole Gamma Logging Methodology for deep borings**
DESCRIPTION OF CHANGE:
The in-hole gamma logging was to be done at 6-inch intervals for obtaining radiological information associated with a 6-inch lift of material. For the deeper borings where the area of interest is approximately 20 feet of more below the surface, the need for the 6-inch intervals in the upper zone would not be necessary for delineating the extent of MED-related materials. In these upper boring sections, the scanning will be performed at 2-foot intervals while watching for any unexpected increases in activity between the intervals. Should an elevated area be observed, then the probe will be raised to an elevation above that area and 6-inch intervals will be used until the elevated zone is no longer present. The 6-inch intervals will still be used beginning at an elevation of 5 feet above where the MED-related material is expected down to the bottom of the boring.

JUSTIFICATION: Allows for obtaining needed information for field decisions in a timelier manner and still allows for achieving the data objective of determining extent of contamination.

IMPACT OF NOT IMPLEMENTING REQUEST
Could result in significant delays as the boring depths are getting deeper than expected.

COST ESTIMATE ($) N/A
ESTIMATOR SIGNATURE _____

PHONE _____ DATE _____

PREVIOUS FCR AFFECTED __YES X NO; IF YES, FCR NO. _____

[redacted] DATE 10/29/01

DATE _____

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____

Field Change Request (FCR)

FCR No. SEA-008 Date Initiated 8/31/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE [redacted]

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **GENERAL – Cost Estimate/schedule**
DESCRIPTION OF CHANGE:
Extension of the second 10-day cycle to 12 days to allow for completion of holes in Area B and not have to fully mobilize the field team for a full third 10-day cycle. The drilling of borings took longer than expected due to the depths of some borings and greater lateral extent of contamination in Area C than previously reported in the RI, which lead to a greater number of borings.

JUSTIFICATION: Extending the scheduled 10-day cycle by two days would allow for completion of all anticipated borings without the need to bring the entire Field Team back for a third 10-day cycle.

IMPACT OF NOT IMPLEMENTING REQUEST
A third 10-day cycle involving the entire Field Team would be needed to complete the borings and demobilize the site. This would increase the costs beyond the increase associated with adding two days and it would further extend the schedule for completion of the borings.

COST ESTIMATE ($) Cost associated with two additional days of Team labor and travel

ESTIMATOR SIGNATURE [redacted]

[redacted] DATE August 31, 2001

PREVIOUS FCR AFFECTED YES X NO; IF YES, FCR NO.

CLIENT PROJECT MANAGER [redacted] ATE 29 OCT 01 NOT A scope change

CLIENT QA SPECIALIST [redacted] TE

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) DATE

Field Change Request (FCR)

FCR No. SEA-009 Date Initiated 9/06/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE (865) 769-5314

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment

AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **GENERAL – Cost Estimate/schedule**

DESCRIPTION OF CHANGE:

There were four borings (ARC1006, ARC2012, ARC2013, ARB2008) that exceeded depths of 60 feet that were not able to be completely logged using the in-hole gamma logging equipment due to the fact that it was designed with a 60-foot cable. A 60-foot cable was designed based on RI information stating that up to 40 feet of material was over the MED-related residues. USACE requested that the instrumentation be modified to be able to log those holes and that they be logged before site demobilization was completed, which included pulling the casings out. Modification to the equipment would take one week. Site demobilization was deferred for one week until the modified equipment could be returned. Therefore, a third cycle is needed to complete the logging of the four borings and to complete site demobilization.

JUSTIFICATION: The in-hole gamma log results have been the critical information clarifying whether MED-related materials are present or not. This data at the lower depths is needed to determine if the MED-material is present or not. Demobilization at the end of the second cycle not an option since the borings could not be pulled until the borings are logged.

IMPACT OF NOT IMPLEMENTING REQUEST

The presence of MED-related material at depths greater than 60 feet could not be determined if the equipment modifications were not made and a third field cycle added. Without this additional information, there would remain uncertainties as to whether there was MED-related materials or not at those depths.

COST ESTIMATE ($) Cost associated with equipment modifications and a limited team to return for a third cycle to complete demobilization

ESTIMATOR SIGNATURE [redacted]

PREVIOUS FCR AFFECTED __ YES X NO; IF YES, FCR NO. _____

NOT A SCOPE CHANGE.

CLIENT PROJECT MANAGER [redacted] DATE 29 OCT 01

CLIENT QA SPECIALIST [redacted] DATE _____

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____

Field Change Request (FCR)

FCR No. SEA-010 Date Initiated 9/18/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE (865) 769-5314

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION): **SAP, FSP, Section 5.2**
DESCRIPTION OF CHANGE:
The plan calls for the PPE and the removed 4-inch PVC pipe be transported to Ashland 1 for ultimate disposition by USACE and IT Corporation. USACE informed SAIC that an alternative plan was needed for the PVC piping. Additional information also was needed by IT before any PPE, including the plastic materials used for the removed cores, could be transported to Ashland 1. This impacts the costs associated with disposition of the PPE, plastic and PVC. Disposition of the PPE and plastic was not possible during the site demobilization efforts since Ashland 1 was not ready to accept the material.

JUSTIFICATION: Ashland 1 not able to take the PVC piping as originally planned. Ashland 1 was not able to accept the PPE and plastic at the time.

IMPACT OF NOT IMPLEMENTING REQUEST
Not applicable.

COST ESTIMATE ($) Cost associated with additional handling of the PPE and Plastic and the cost associated with finding other alternatives for the PVC borings and the cost associated with the disposition of the material.

ESTIMATOR SIGNATURE [redacted]

PHONE [redacted] DATE September 18, 2001

PREVIOUS FCR AFFECTED YES X NO; IF YES, FCR NO. _____

CLIENT PROJECT MANAG[redacted]ATE 29 Oct 01

CLIENT QA SPECIALIST [redacted]ATE _____

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____

NOT A scope change

Field Change Request (FCR)

FCR No. SEA-011 Date Initiated 10/04/01

PROJECT FUSRAP – Seaway Landfill Areas A, B & C.

CONTRACT NO. NGB-DAHA90-94-D-0007-DN03

REQUESTOR IDENTIFICATION

NAME [redacted] ORGANIZATION SAIC PHONE [redacted]

BASELINE IDENFICATION

BASELINES(S) AFFECTED Cost Scope Milestone Method of Accomplishment
AFFECTED DOCUMENT (TITLE, NUMBER, AND SECTION: FSP Section 2.2.2.1
DESCRIPTION OF CHANGE: On Thursday, September 6, 2001, a meeting was held at the Seaway Landfill Site between representatives of USACE, NYSDEC, and SAIC to discuss the status of the field activities completed to date. During this meeting. it was discussed that not all of the soil cores completed in Area B during the past week would be logged before the end of the shift, which was the following day (September 7, 2001). Therefore, it was agreed that the soil cores would be logged as part of the next field cycle (third shift) that was to begin the week of September 17, 2001.

However, it was brought up that the organic vapor measurements taken with the Photovap Micro Tip photoionization detector (PID) during the week of September 17, 2001 would not be considered representative due to the length of time that the cores would be laying out prior to taking PID measurements. Therefore, it was agreed that attempts would be made to collect PID measurements from as many soil cores as possible prior to leaving the site and that PID measurements would not be made from the remaining cores during the third shift.

JUSTIFICATION: As noted above, schedule constraints did not allow collection of PID data prior to the end of the field cycle.

IMPACT OF NOT IMPLEMENTING REQUEST: Another field crew would have to be brought in to accomplish the task of collecting the PID reading, which was not feasible due to staffing constraints.

COST ESTIMATE ($) _None_____

ESTIMATOR SIGNATURE _____

PHONE _____ DATE _____

PREVIOUS FCR AFFECTED YES NO; IF YES, FCR NO. _____

[redacted] DATE 29 OCT 01

[redacted] DATE _____

SAIC H&S MANAGER SIGNATURE (IF APPLICABLE) _____ DATE _____