# WASTE MANAGEMENT, TRANSPORTATION AND DISPOSAL PLAN

Demolition of Building 401

Niagara Falls Storage Site Lewiston, New York

Contract Number DACW 49-03-R-0033

### **Prepared By:**

Sevenson Environmental Services, Inc. Niagara Falls, New York

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Waste Management, Transportation and Disposal Plan Niagara Falls Storage Facility Site Building 401 – Lewiston, New York

#### Introduction

The purpose of the Waste Management, Transportation and Disposal Plan (WMTDP) is to include procedures for waste material handling, preparation, transportation and disposal from the site.

All non-hazardous debris, radiologically contaminated debris, and other potential Federal or State regulated wastes will be segregated, handled, and stored in accordance with the approved Site Operations Plan (SOP), Site Demolition Plan (SDP), Radiation Control Plan (RCP) and Site Safety and Health Plan (SSHP), applicable Federal, State, and local regulations, and as specified herein.

Does not specify which parts of this 191 acre site will be used as project Support areas and existing structures have been included as Figures 1 and 2 of this Plan.

#### 1.0 IDENTIFICATION OF WASTES

This WMTDP covers all aspects of onsite management, transport and disposal of various waste materials generated as part of the Niagara Falls Storage Facility, Building 401 Site (the Site) located in Lewiston, New York. Copies of disposal facility waste approval profile forms are included in Appendix A of this Plan.

1.1 Non-Radiologically Contaminated Debris

All Site debris with radiological levels meeting unrestricted release criteria as defined in

the RCP will be shipped offsite for Subtitle D (non-hazardous) landfill disposal. As this

debris originates from a Formerly Utilized Sites Remedial Action Program (FUSRAP)

Site, only non-New York state landfills will be utilized for final disposal. It is estimated

that up to 9000 tons of non-hazardous debris meeting the criteria for unrestricted release

will be generated during demolition activities.

Waste Hauler 1.1.1

Primary Transporter: (To be determined)

US EPA Transporter ID Number:

Facility Address:

Name of Responsible Contact:

Telephone Number:

Unit of Measure for Costing Purposes: Per ton

(To be determined) will provide aluminum body end dump trailers or intermodal

containers to ship the non-hazardous debris to the appropriate disposal facility.

Non-Radiologically Contaminated Debris Disposal 1.1.2

Primary Facility Name: (To be determined)

US EPA ID Number:

**Facility Location:** 

Name of Responsible Contact:

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Telephone Number:

Unit of Measure for Costing Purposes: Per ton

Date of Last Compliance:

Outstanding Enforcement Actions:

(To be determined) will be providing non-hazardous debris disposal.

1.2 Radiologically Contaminated Debris

All demolition debris with radiological contamination levels that exceed unrestricted

release criteria as defined in the RCP will be segregated for shipment to a landfill facility

licensed by the Nuclear Regulatory Commission (NRC) or one that is permitted by

Federal and State regulators to accept radioactive materials. It is estimated that up to

9000 tons of debris exceeding the criteria for unrestricted release will be generated during

demolition activities.

1.2.1 Waste Hauler

Primary Transporter: (To be determined)

US EPA ID Number:

Facility Location:

Name of Responsible:

Telephone Number:

Unit of Measure for Costing Purposes: Per ton

(To be determined) will provide intermodal rail containers to transport the radiologically

contaminated debris to the appropriate disposal facility.

1.2.2 Radiologically Contaminated Debris Disposal

Primary Facility Name: (To be determined)

US EPA ID Number:

Facility Location:

Name of Responsible Contact:

Telephone Number:

Unit of Measure for Costing Purposes: Per ton

Date of Last Compliance Inspection:

Outstanding Enforcement Actions:

(To be determined) will be providing final secure landfill disposal for all radiological

debris.

1.3 **Drummed Wastes** 

Prior to the commencement of demolition activities, a survey of all potentially hazardous

material remaining in the building will be conducted. These materials may include:

mercury containing switches, thermostats, or lights; PCB containing capacitors and/or

light ballasts; bird/animal waste; and any other hazardous material not previously

identified in building surveys. All waste materials will be removed and grouped with like

materials for disposal management. All potential hazardous wastes will be first scanned

per the RCP to verify the absence of radiological contamination. Non-radiologically

contaminated wastes will be placed into suitable containers and sampled, as necessary, to

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determine RCRA-hazardous waste status. Radiologically contaminated wastes will be

placed into separate suitable containers and sampled, as necessary, to determine whether

management as a mixed waste containing regulated hazardous waste and radioactive

constituents.

1.3.1 Waste Hauler

Primary Transporter: (To be determined)

US EPA Transporter ID Number:

Facility Address:

Name of Responsible Contact:

Telephone Number:

Unit of Measure for Costing Purposes: Per ton

(To be determined) will provide box van trailers to ship the drummed wastes to the

appropriate disposal facility.

1.3.2 RCRA Hazardous and Mixed Waste Drum Disposal

Primary Facility Name: (To be determined)

US EPA ID Number:

Facility Location:

Name of Responsible Contact:

Telephone Number:

Unit of Measure for Costing Purposes: Per ton

Date of Last Compliance:

Outstanding Enforcement Actions:

(To be determined) will be providing RCRA Hazardous and Mixed Waste Drum

disposal.

1.4. Site Water

All water and sampling-related liquids generated at the Site will be pumped for

temporary storage prior to being processed through an onsite water treatment system or

shipped for offsite disposal. All waters will either be pumped directly to temporary

storage with portable pumps and hoses or consolidated and transported to storage by a

tanker truck unit.

1.4.1 Waste Hauler (Off-site disposal)

Primary Transporter: (To be determined)

US EPA Transporter ID Number:

Facility Address:

Name of Responsible Contact:

Telephone Number:

Unit of Measure for Costing Purposes: Per gallon

(To be determined) will provide tank trailers to ship the wastewater to the appropriate

disposal facility.

1.4.2 Site Water Disposal (Offsite)

Primary Facility Name: (To be determined)

US EPA ID Number:

Facility Location:

Name of Responsible Contact:

Telephone Number:

Unit of Measure for Costing Purposes: Per ton

Date of Last Compliance:

Outstanding Enforcement Actions:

(To be determined) will be providing Site Water disposal.

1.5. Investigational Derived Waste (IDW) and Personal Protective Equipment

(PPE) Solids

All newly generated IDW (if any) and PPE (tyvek, spent filter cartridges, etc.) will be

consolidated daily into drums for storage. As necessary, all drummed solids will be bulk

consolidated into intermodal containers for disposal at the radiological landfill facility.

Empty drums will be reused after consolidation; crushed RCRA-empty drums will be

consolidated with bulk wastes for final disposal.

1.5.1 Waste Hauler

Per 1.2.1 or 1.2.2 as applicable.

1.5.2 **IDW and PPE Solids Disposal** 

Per 1.2.1 or 1.2.2 as applicable.

#### 1.6 Municipal (Office) Waste Disposal

(To be determined) provides a trash dumpster and periodically removes all office waste.

### 1.7 <u>Sanitary Services (Port-a-Johns)</u>

(To be determined) provides and maintains Port-a-Johns at the Site for use by site workers.

#### 2.0 ONSITE MANAGEMENT

### 2.1 <u>Segregation of Waste Materials</u>

The following classifications of waste material are expected during the excavation activities:

Waste Type Designation	Waste Definition
Non-contaminated building debris	Any building debris with radiological contamination level less than unrestricted release criteria as defined in the RCP
Contaminated building debris	Any building debris with radiological contamination level greater than unrestricted release criteria as defined in the RCP
Drummed RCRA hazardous or mixed wastes	Drummed miscellaneous wastes (either RCRA regulated only or mixed waste, as determined by radiological scan or analysis) removed prior to building demolition that may include the following waste types:  • mercury containing switches, thermostats, or lights;  • PCB containing capacitors and/or light ballasts; and  • bird/animal waste.
Site Water	Waters generated on-site that are not treated onsite or utilized for dust control that must be disposed of off-site.

Sevenson will segregate waste material for disposal purposes based upon procedures

defined in the RCP, SDP and at the site engineer's direction.

If it appears, at any time during the demolition process, that the material is becoming

mixed, and/or it becomes impossible to segregate the waste, Sevenson will initiate the

stockpiling of material to facilitate waste segregation with regards to expediting disposal

of the material.

2.2 Sampling and Waste Characterization

2.2.1 Demolition Debris

All demolition debris will be sampled and characterized per the RCP and SAP, submitted

under separate cover. It is anticipated that all debris will be segregated based upon

radiological contamination levels for either unrestricted release for non-hazardous landfill

or restricted release to a landfill licensed by the NRC as contaminated.

2.2.2 Site Waters

Accumulation of water within work zones will be limited by procedures detailed in the

SOP, submitted under separate cover with the next task order. Any water that collects in

the work zone will be transferred with a pump and 2-inch line to a temporary water storage tank. All water generated during sampling or decontamination of trucks or Site equipment will also be collected and stored in the temporary tank. This water may be treated onsite or utilized during site operations for dust control purposes. Any water remaining will be sampled per the SAP for disposal purposes.

### 2.2.3 Investigation-Derived Waste (IDW)/Personal Protective Equipment (PPE)

All IDW and PPE, including discarded disposable sampling equipment and plastic sheeting, will be consolidated on a daily basis at the decontamination pad area at the Site. IDW/PPE will be placed in plastic bags on a daily basis prior to weekly consolidation into (55) gallon drums for storage. Once offsite transportation of waste commences, the (55) gallon drums will be emptied into loads of waste being shipped for disposal.

#### 2.2.4 Drummed Waste

All drums of like waste material will be consolidated at a central storage area for inventory and disposal management. Samples representative of varying waste streams will be collected and analyzed per the SAP.

#### 2.3 Onsite Waste Handling

#### 2.3.1 Demolition and Removal of Waste

Refer to the SOP and SDP, submitted under separate cover.

#### 2.3.2 Preparation of Waste for Offsite Transport

Each offsite disposal facility designated in Section 1.0 of this plan requires that no free liquids be present in any incoming truckload of material. Each truckload of material loaded at the Site will be visually inspected prior to weighing and tarping to confirm the absence of free liquid in the load.

No excessive liquid (moisture) content is expected to be present in the demolition debris. The operator will visually monitor for liquid content as each intermodal or truck is loaded to verify and will notify the field supervisor if excess liquid is present. If necessary, the operator will add an approved moisture control agent (i.e. Portland cement or lime) in order to control moisture content.

#### COMPLETION OF INDEPENDENT TECHNICAL REVIEW

The Contractor has completed the (Waste Management, Transportation, and Disposal Plan) (Item: 4.8) of (Demolition of Building 401 @ the Niagara Falls Storage Site, Lewiston, New York). Notice is hereby given than 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 analyses; 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 Corps' policy.

/Signature/	Date:
Design Team Leader	
/Signature/ Lennifu O. Singer	Date: <u>9/18/03</u>
Design Team Members	,
/Signature/ Land	Date: 9/17/03
Independent Technical Review Feam Leader	, ,
/Signature/	Date: 9 19 03
Independent Technical Review Team Members	

#### CERTIFICATION OF INDEPENDENT TECHNICAL REVIEW

Significant concerns and the explanation of the resolution are as follows:

(Describe the major technical concerns, possible impact, and resolution)

As noted above, all concerns resulting from independent technical review of the project have been considered.

Date: 9/19/03

Principal W/CONTRACTOR firm

# Demolition of Building 401, Niagara Falls Storage Site, Lewiston, NY USACE Contract Number: DACW49-03-R-0033

### COMPLETION OF INDEPENDENT TECHNICAL REVIEW

Item No: 4.8	
Submittal Title: Wast	e Management, Transportation, and Disposal Plan
Significant concerns and t	he explanation of the resolution are as follows:
(Describe the major techn	ical concerns, possible impact, and resolution)
-Informati	on describing water treatment added
-Clearly st licensed l	ates that radiologically contaminated waste will be disposed of in a L/F
-Moisture	Control alternatives for possible wet loads of debris added

#### 2.3.3 Loading of Waste

Typically, all waste will be loaded directly into intermodal boxes or end dump trailers. Prior to loading, the boxes or trailers that are hauling contaminated material are lined with a six-mil polyethylene liner placed in the box. Non-contaminated loads will not be lined, as it is not required by the landfill. The liner assists in the removal of the contaminated material, inhibits the migration of any trapped moisture during transit, and prevents the intermodal or trailer box from becoming contaminated.

Waste material is loaded into the container by use of a backhoe at the temporary staging area. Once loaded, the excess liner from the sidewalls of contaminated loads is placed over the waste forming an envelope to seal the material in the box. A visual inspection will be performed at the loading site to ensure that no contaminated material has spilled onto the sides of the trailer.

The intermodal box or tractor-trailer unit then proceeds to the Contamination Reduction Zone (CRZ) for a confirmatory weighing, final tarping and decontamination.

Once cleaned and released from the decontamination pad, the load will be manifested and all shipping documents, bills of lading, weigh tickets, etc. will be completed and issued to the drivers.

Needs to be reviewed by Graig Rieman

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2.3.4 Control of Surface Water

Refer to the Site Operations Plan.

2.3.5. Odor Control

Not applicable.

2.3.6 Transport Vehicle Decontamination

All offsite transport vehicles which enter an Exclusion Zone (EZ) will be assumed to be

contaminated and will be routed through the decontamination pad constructed at the site.

Any large amounts of debris or dust which may adhere to the truck will be removed prior

to the vehicle exiting the EZ to minimize the possibility of contaminating the Site

transport road and to reduce the amounts of solids and/or decontamination waters

generated at the decontamination pad.

As the truck enters the decontamination pad from the EZ side, a second gross

decontamination will be performed by the decontamination personnel. Dry removal of

solids, using either nylon or wire brooms and brushes, will then be followed by the use of

high-pressure water sprayers, as necessary. All areas on the truck where debris or

contamination may accumulate will be decontaminated. Special care will be taken to

remove solids from under wheel-wells, from between tire treads, truck undercarriage, and

inside bumpers. Once the vehicle has been decontaminated, it is subject to a radiological

scan per the RCP to confirm the absence of contamination.

Each vehicle that is decontaminated will be issued a Certificate of Decontamination.

Each certificate will be prepared and signed by Sevenson's Site Health and Safety

Officer. Copies of all Certificates of Decontamination will be maintained at the Site by

Sevenson's Project Manager.

Additional details regarding project decontamination procedures may be found in the

RCP and SSHP submitted under separate cover.

2.3.7 Weighing of Trucks

Loaded trucks will be weighed at the scale location to confirm that they have not been

either over or under loaded prior to leaving the Site. This on-site scale will not be

certified, its purpose is to provide an estimated qualification for "over-the-road" legality.

The trucks will then proceed to a certified scale at the appropriate disposal facility for

final certified weighing to corroborate the final disposal costs.

#### 2.4 Onsite Storage of Waste

During periods where demolition quantities are minimal, waste material may be stockpiled on contaminated areas awaiting loading. Stockpiles will be covered with six-mil polyethylene to suppress dust, prevent erosion, and facilitate water runoff without contamination. Stockpiles will be kept to a minimum, typically under five hundred cubic yards. Water infiltration control measures including silt fence, sand bags, etc. will be installed around stockpiles to prevent the migration of contaminated material.

#### 3.0 PRE-TRANSPORT REQUIREMENTS

#### 3.1 DOT-Required Placards

All transport vehicles operating with the Site perimeter that do not travel public access roadways will not require D.O.T. placarding.

All D.O.T. and/or RCRA regulated materials shipped from the Site to the appropriate disposal facility will be transported in properly placarded, permitted vehicles. It is anticipated that radiologically contaminated debris will not meet the criteria of a Class 7 (radioactive) waste (< 2000 pCi/g) and will be shipped as an unregulated material. The

following is a list, by waste type, of D.O.T. shipping name, hazard class, and placard requirements:

Waste Type	Hazard D.O.T. Shipping Name	Hazard Class	Number
Non-contaminated Debris	Non- D.O.T. Regulated Material (site debris)	None	N/A
Contaminated Debris	Non- D.O.T. Regulated Material (site debris)	None	N/A
Site water	Non- D.O.T. Regulated Material (site water)	None	N/A
Drummed Waste	(To be determined based on general laboratory analysis)	ator knowledge and/	or

If required, a total of four placards will be placed on each vehicle, with one placard affixed in a place that is clearly visible on each side and on each end of the intermodal or dump box of the vehicle. The position, durability, color, size and type of the placard will comply with all requirements set forth by 49 CFR Section 172.504, 172.508, 172.516, 172.519, 172.331, and 172.332.

Office Waste and Sanitary Facility Waste from the Site are not considered D.O.T. or RCRA hazardous. They will be transported by truck for disposal by the appropriate

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municipal or private entity or subcontractor for offsite management. No D.O.T.

placarding of this material shall be required.

3.2 Example of Placards

(To be determined)

4.0 MODE AND ROUTE OF TRANSPORTATION

Sevenson personnel and the designated onsite Transportation Coordinator will manage all

aspects of transportation for disposal for all waste at the Site. This will include the

scheduling, staging, directing from various Site locations, issuance of required

paperwork, and final inspection prior to exit from the Site.

A log of all truckloads will be maintained on site. This log, as a minimum, will contain

the date shipped, truck number/license plate number, weight, manifest number, truck tare

weight, and any other pertinent information pertaining to a particular shipment.

#### 4.1 Type of Transporter

Bulk solid wastes will be loaded directly into either unlined or polypropylene-lined (as appropriate) intermodal boxes or aluminum-bodied end dump trailers for transport to the appropriate disposal facility as referenced in Section 1.0 of this Plan.

Site water shipped for offsite disposal will be loaded into 5000-gallon vacuum takers.

Any drummed solid waste generated at the Site will be loaded into box van trailers for offsite disposal.

Municipal (Office) wastes will be consolidated into a commercial dumpster that will be staged at the Site. The contracted municipal waste hauler will empty the container into a bulk transfer trailer.

Sanitary waste will be removed from Site Port-A-Johns by the contracted septic waste service. Each Port-A-John unit will be emptied with a vacuum tanker.

4.2. Transporter Capacity

The bulk solid intermodal boxes will measure approximately 20' long (outside

dimensions), 6' wide (outside dimensions) and 6' high. Each intermodal box will hold

approximately 24 cubic yards or 20 tons of material

The bulk solid dump trailers will measure approximately 40' long (outside dimensions), 8'

wide (outside dimensions) and 7' high. Each dump trailer will hold approximately 40

cubic yards or between 22-25 tons of material.

Vacuum tanker and box van trailers are detachable units that will be pulled by a semi-

tractor. Each complete unit will be approximately 45-50 feet in length.

Municipal and sanitary contractors will supply adequate equipment to perform removal

of their designated wastes.

4.3. Anticipated Shipment Frequency

Empty intermodal boxes or dump trailers for bulk solids will be loaded inside the safety-

fenced site area, but from outside the temporary storage pad or demolition exclusion zone

areas. All full containers will be immediately tarped to prevent the infiltration of

precipitation and any possible drying/dusting problems. All loading and removal will be

performed between the hours of 7:00 am and 5:00 pm, subject to change by request. An

estimated 300 tons will be sized after the material has been segregated and shipped from

the Site on a daily basis.

The project schedule and the proposed demolition plan may require the shipment of

waste to either disposal facility on any given workday. Sevenson will coordinate closely

with each facility's designated representative and/or transportation coordinator. A review

of the past days' removal, and the current days anticipated production will be conducted

with field supervisors and operators at the morning tailgate meeting. A daily verification

of completed and proposed scheduling of demolition will be made with the onsite

transportation coordinator, each disposal facility, and the anticipated transporters of

waste. Records pertaining to all daily demolition activities and contacts with various

subcontractors will be maintained in the Daily Quality Control Reports for the Site.

Office waste will be collected in appropriate containers (dumpsters) onsite and picked up

on a weekly basis by a municipal waste contractor.

Sanitary wastes will be collected on a minimum weekly basis, or more frequently as

required, by the septic disposal contractor in septic waste vacuum tanker.

4.4 Transportation Route and Estimated Transit Time

(to be determined)

All municipal solid waste and sanitary waste transport vehicles will also utilize these

routes to enter and leave the Site.

4.5 <u>Temporary Off-Site Storage</u>

All transport vehicles will travel directly to their intended disposal facility. No offsite

temporary storage of Site materials is anticipated. Should mechanical failure or driver

injury necessitate the unscheduled storage of materials once the vehicle is en route, the

appropriate parties will immediately notify Sevenson. Sevenson will make the generator

aware of any transport irregularities and will coordinate with the generator to resolve any

difficulties.

If possible, the vehicle should be returned to the Site or removed to the transporter's own

secure facility or service yard until alternate arrangements can be made. If this is not

possible, another facility's secured yard or lot will be desirable.

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#### 5.0 **REGULATIONS**

#### 5.1 Weight and Size Limitations

The bulk solid intermodal box and dump trailers and their associated transport vehicle furnished by the transporters will have a legal over-the-road weight capacity of 80,000 pounds gross weight. Each tractor and trailer combination will vary slightly in payload capacity, so the driver of the vehicle will be consulted prior to exiting the Site to confirm payload appropriateness.

All other types of transport vehicles will be subject to limitations according to their manufacturers requirements. All hauling weights will be confirmed with the driver and their respective dispatcher prior to the first removal of a particular waste from the Site.

## 5.2 <u>Vehicle Licensing and Registration Requirements</u>

All vehicles will be licensed and permitted in all states through which they may travel. The onsite Transportation Coordinator will confirm all permitting issues with the dispatcher of the trucking company. Copies of all permits and licenses will be made available onsite upon request by the generator.

#### 6.0 Sample Shipping Papers

#### Summary and Examples of Completed Shipping Papers 6.1

The required shipping papers for each shipment of contaminated waste from the Site will consist of a Waste Manifest, Radioactive Waste Shipment and Disposal Record and a truckers' bill of lading.

Non-contaminated debris will be shipped with a Waste Manifest and truckers' bill of lading.

Drums of hazardous or mixed waste, as necessary, will be shipped with a Waste Manifest, Land Ban Notification Form, Radioactive Waste Shipment and Disposal Record (if required) and a truckers' bill of lading.

One set of forms will be provided for each load. When ready to exit the Site, the truck driver will be presented the completed paperwork. He will sign the manifest(s) as directed, and carry the manifest(s), Land Disposal Restriction (LDR) form, and bill of lading in his cab at all times until he arrives at the disposal facility.

Copies of all shipping documents can be found in Appendix B of this Plan.

#### 7.0 TRANSPORTATION QA PROGRAM

### 7.1 <u>Truck Inspection Criteria and Corrective Action Procedures</u>

#### 7.1.1 Truck Integrity

All truck/transportation vehicle tires should be inspected immediately upon arrival at Site by the designated Transportation Coordinator and/or Sevenson's Project Manager for punctures, cracks, or protrusions. It is the responsibility of the appropriate transportation subcontractor to deliver well-maintained, usable transport vehicles and containers to the Site and the responsibility of Sevenson to determine if the vehicle and container is fit to carry the specific waste. If the vehicle is not acceptable to Sevenson, the subcontractor shall be notified immediately that the vehicle has been rejected and arrangements shall be made for replacement.

### 7.1.2 Lining and Tarping Procedures

All bulk solid contaminated waste transport vehicles will be lined with a 6-mil polyethylene liner. The liners will have two end flaps and side flaps which extend over the edges of the box to protect from contamination. Once loaded, the flaps will be folded into the center of the waste to partially cover the load.

The tarps (top covers) are made of 9 mil woven polypropylene fabric and measure

approximately 10' wide x 24' long. The tarps will be secured using braided rope through

16 tie-down hooks.

Liners for non-hazardous trucks may be used at the discretion of the disposal facility and

Sevenson. All non-hazardous loads will be securely tarped, however, before leaving the

Site.

7.1.3 Spill Response Contingency Plan

All transportation subcontractors will have spill response contingency plans for handling

spills ranging from small incidental releases to large releases caused by overturns.

Sevenson or its subcontractor personnel will handle small releases onsite. Large releases

caused by full overturns or offsite incidents will be handled by teams of the transporter's

in-house response crews supplemented by subcontractors as required. Manpower,

equipment and materials are handled on a case-by-case basis. Any subcontractor will

notify Sevenson in the event that any spillage occurs during transit to its appropriate

designation facility. Each truck transporter is required to maintain and follow a Spill

Contingency Plan. Notification by the truckers of any incidents shall be made to

Sevenson. In turn, Sevenson will notify all appropriate individuals associated with this

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project of any spill and the response actions being taken. Copies of the transporter's Spill Contingency Plan are included in Appendix C.

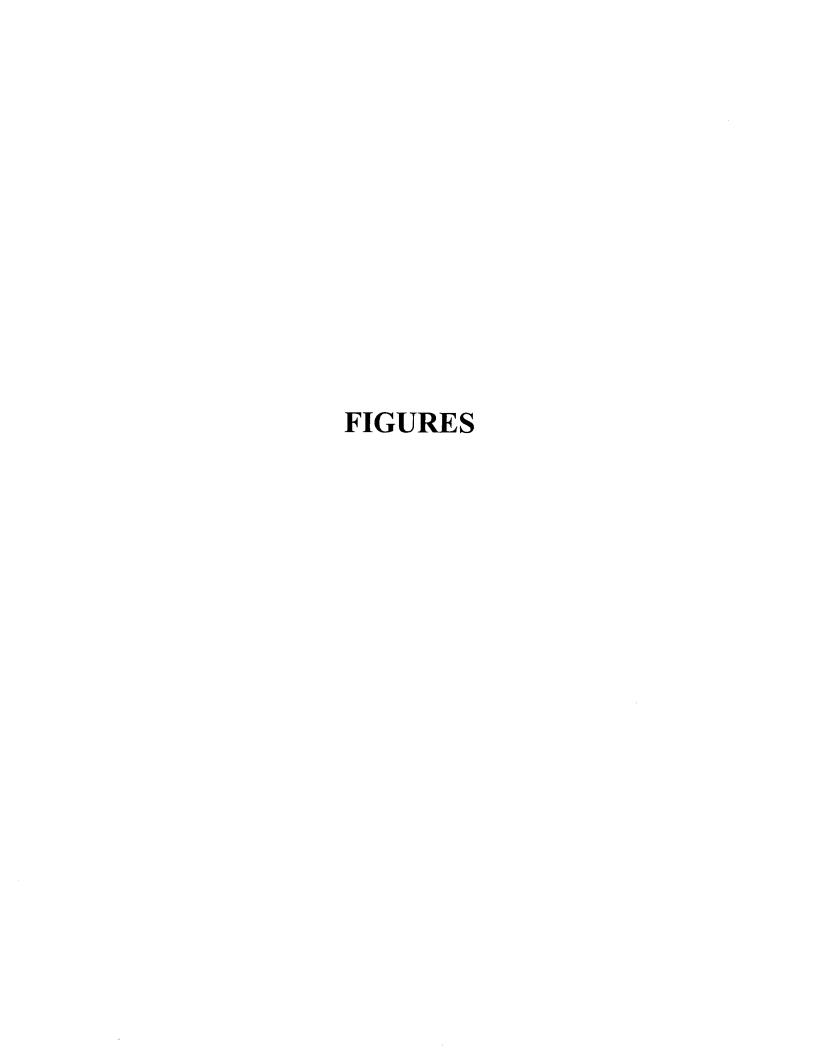
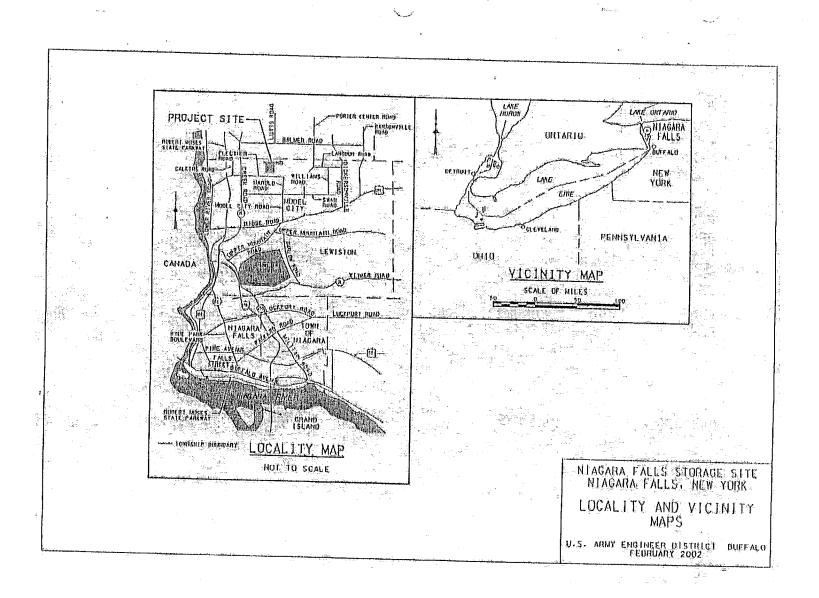
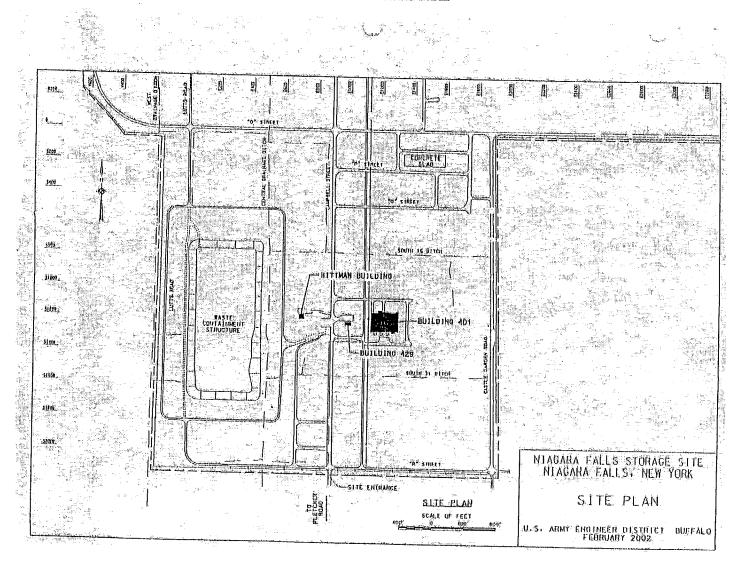


FIGURE 1-1: GENERAL LOCATION OF NIAGARA FALLS STORAGE SITE





# Appendix A

WASTE PROFILES



### RADIOACTIVE WASTE PROFILE RECORD

EC-0230, Revision 4

#### A. GENERATOR AND WASTE STREAM INFORMATION

GENERAL: Complete this form for one waste stream. Contact Envirocare at (801) 532-1330 if you have any questions while completing this form. Please indicate "N/A" if a category does not apply.

1. GENERAT	OR INFORMATION		
Generator Name:		EPA	ID #:
Generator Contact:			Title:
Mailing Address:			
			nit#:
Phone:	Fax:		mail:
Contractor Name:		Location of Material (City, S	itate):
		Phone:	
	TREAM INFORMATION		
		Waste Stream Name:	
	•		Delivery Date:
Revisio	Date.	Volume (it ).	
CHECK APPRO Waste Profile Rec		fy the required forms requested below	w are completed and submitted with the Radioactive
HAZARDOUS M	ATERIAL: Is the waste classified as ha	zardous waste as defined by 40 CFR 26	1?
Y 🗆 N 🗀	If No, complete and attach the "Low-L	evel Radioactive Waste Analysis Certif	cation Attachment".
	If Yes, complete and attach the "Hazar Has the waste been treated to meet Is the waste to be treated by Environment	applicable treatment standards per 40 C	chment" and check applicable box below.  FR 268? Y \bigcup N \bigcup
LOW-LEVEL R. Level Radioactive	ADIOACTIVE MATERIAL: Is the radi Waste Policy Amendments Act of 1985 of	ioactivity contained in the waste materia or in DOE Order 435.1?	al Low-Level Radioactive Waste as defined in the Low-
Y 🗆 N 🗆	applicable for non-DOE LLRW (i.e., M	npact Export letter authorizing export mi fixed Waste, NORM/NARM, 11e.(2) m	ust be submitted if applicable. This authorization is aterial, and waste from DOE do not require a Compact
	Export Letter).  If No, check appropriate box: NORM/	NARM 11e (2) Byproduct Mater	ial Other:
SPECIAL NUCL U-233, Pu-236, Pu	EAR MATERIAL: Does the waste streat-238, Pu-239, Pu-240, Pu-241, Pu-242, Po	am contain material with uranium enricl u-243, or Pu-244?	ned in U-235 or any of the following radionuclides:
у 🗌 и 🖺	If Yes, complete and attach the "SNM Exemption Certification" form (EC-0230-SNM). Supporting statements, analytical results, and documentation must be included with the submittal.		
PCB MATERIAL	L: Does the waste contain Polychlorinated	d Biphenyls (PCB's) that are regulated t	for disposal per 40 CFR 761?
Y 🗌 N 🗀	If Yes, complete and attach the "PCB Waste Certification" form (EC-98279).		
ASBESTOS: Do	es the waste contain Asbestos Containing	Material?	
Y 🗆 N 🗀	If Yes, Asbestos Containing Material n		CFR 61. Provide a detailed description of the waste



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#### B. WASTE PHYSICAL PROPERTIES & PACKAGE INFORMATION

1.	GENERAL CHARACTERISTICS
	Does the waste contain free liquids? Y \( \subseteq \text{N} \) If Yes, what is the percent of free liquid by waste volume? \( \frac{\pi}{2} \)
	Does the waste contain absorbent? Y \( \Backslash \ \ N \\ \Backslash \) Density range of the waste: S.G. \( \Backslash \) lb/ft3 \( \Backslash \)
	List percentage of waste type by volume: Soil  % Concrete & Metal  % DAW  % Resins  % Sludge  %
	Other constituents and percentage by volume?
	Other constituents and percentage by volume?
2.	MATERIAL SIZE
	Gradation of Material: Indicate the percentage of waste material that would pass through the following grid sizes. For example, 95% of the material would pass through a 12" square, 90% passes through a 4" square, 80% passes through a 1" square, etc.
	12"% 4"% 1"% 1/4"% 1/40"% 1/200"%
	Does the waste stream contain oversize debris (i.e., no dimension < 10 inches and any dimension > 12 feet)? Y \( \subseteq \text{N} \sim \text{N} \subseteq \text{N} \sim \t
3.	MOISTURE CONTENT
	For soil or soil-like materials, please use Std. Proctor Method ASTM D-698 to determine the optimum moisture content. The waste material must not exceed 3 percentage points above optimum moisture upon arrival at Envirocare's disposal facility unless approved by Envirocare.
	Optimum Moisture Content:% at Maximum Dry Density (lb/ft³):
	Average Moisture Content:
4.	WASTE SHIPPING & PACKAGING
	Transportation Mode:
	Shipping & Container Packages: ☐ Drums (≤ 85 gallons) ☐ Boxes (≤ 100 ft³) ☐ Soft-Sided Bags (≤ 10 yd³) (Check all that apply)
	☐ Intermodal ☐ Sealand ☐ Gondola* ☐ Box Car
	Other:
	*Dimensions of gondola railcars must be between 48 to 56.5 feet in length and 8.5 to 12.5 feet in height as measured from the top of the rail to the top of the railcar unless approved by Envirocare.
5.	NARRATIVE DESCRIPTION AND HISTORY OF WASTE
	Please submit a narrative description and history of the waste as an attachment to the Radioactive Waste Profile Record. This attachment should include the following:

- · Process that generated the waste
- Waste material physical composition and characteristics
- Radiological and chemical characterization method
- Basis for determining manifested radionuclide concentrations
- Description and amounts of absorbents, if applicable
- · Basis of non-hazardous or hazardous waste determinations
- Treatment processes, if applicable
- Product information or Material Safety Data Sheets associated with the waste as applicable
- Information requested in other sections of this form



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#### C. RADIOLOGICAL INFORMATION

Obtain sufficient samples to adequately determine a range and weighted average of activity in the waste. Attach the gamma spectroscopy or radiochemistry data supporting the radionuclide information listed below.

1. Does the waste material contain accessible surfaces with contact dose rates greater than 500 mR/hr? Y  $\square$  N  $\square$ 

3.	LLRW Manifest F the narrative descr exceed the upper of present in concent	Form 541 must not exceed ription of Section B.5 if the concentration range. Envir	the upper concentration waste contains localization ocare's license assume Consequently, these	n range listed belo zed "hot spots" or es that short-lived short-lived isotope	manifested concentration of the formula of the cach isotope. Provide elevated concentrations the decay products of specified as do not need to be listed by the cache of the c	le an explanation in at significantly I isotopes are
	Isotopes	Manifested Concentration Range (pCi/g)	Weighted Avg. per Container (pCi/g)	Isotopes	Manifested Concentration Range (pCi/g)	Weighted Avg. per Container (pCi/g)
		to			to	
		to			to	
					to	
		to			to	
		to			to	
					to	
		40			to	
		to			to	
		to			to	
		to			to	
		to			to	
		to			to	·
		to			to	
		to			to	
					to	
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		to			to	
					to	
		4.0			to	



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#### HAZARDOUS WASTE ANALYSIS CERTIFICATION ATTACHMENT

This form is required only if the checkbox for Hazardous Material on page one has been checked YES. Envirocare may waive the chemical laboratory analyses if the material is not amenable to chemical sampling and analysis (e.g., debris items including metal pieces, concrete, plastic, etc.). Justification for waiving the chemical analyses must be provided in Section B.5.

#### D. MINIMUM REQUIRED CHEMICAL ANALYSIS

The following parameters must be analyzed by a Utah or NELAC certified laboratory. Typical SW-846 analytical methods have been listed. Other approved methods are acceptable. Attach the most recent or applicable chemical analytical results representing the waste.

GENERAL CHEMI	ICAL PARAMET	TERS			
		SW-846 Analyt	ical Methods		
Soil pH:	<del></del>	Method 9045 Ple	ase provide the ra	nge of the pH analyses perfor	med.
PFLT:	Pass / Fail	Method 9095 No	t applicable for lie	quid radioactive waste stream	S.
Reactive Sulfide:	mg/kg	Method 9034			
Reactive Cyanide:	mg/kg	Method 9014 If 1	he Reactive Cyan	ide is > 50 mg/kg, total and a	amenable cyanide are required.
		Method 9010	Total cyar	ide:mg/kg Ar	menable cyanide: mg/kg
TOX:	mg/kg	Method 9020 TC & 8270 analyses (1			fTOX >200 mg/kg, Method 826
Has the	waste been analyzed	for volatile or semi-	volatile constituen	ts (Method 8260 or 8270)?	Y 🗆 N 🗆
Any dist	tinguishing color or o	odor? Y 🗌 N 🔲	If Yes, color:	; odor:	
HAZARDOUS WA	STE CODES AN	D TREATMENT	STANDARDS	(40 CFR 268)	
description of hazard  EPA HW  Codes	D Constit	escription, uent of Concern,		ons, etc. in the narrative re  Treatment Standard  (mg/kg unless noted as  mg/L TCLP or  Technology Code)	Worst-Case Concentration (mg/kg unless noted
			···		
				-	****



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#### D. 2. HAZARDOUS WASTE CODES AND TREATMENT STANDARDS (Continued)

	Description,	Treatment Standard (mg/kg unless noted as	Worst-Case Concentration
EPA HW	Constituent of Concern,	mg/L TCLP or	(mg/kg unless noted
Codes	or Subcategory	Technology Code)	as mg/L TCLP)
	-		
			<del></del>

#### 3. UNDERYLYING HAZARDOUS CONSTITUENTS (40 CFR 268.48)

List all underlying hazardous constituents (UHCs) and treatment standards. Include UHCs that have been removed through treatment. Worst-case concentrations only need to be provided for concentration based treatment standards. If additional space is needed, provide an Attachment D.3 to this profile record formatted as below.

Underlying Hazardous Constituents	Treatment Standard (mg/kg unless noted as mg/L TCLP or Technology Code)	Worst-Case Concentration (mg/kg unless noted as mg/L TCLP)



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#### D. 4. OTHER CHEMICAL CONSTITUENTS

List any other chemical constituents of concern (e.g., PCBs, chelating agents, etc.) and worst-case concentrations. If additional space is needed, provide an Attachment D.4 to this profile record formatted as below.

	Other Chemical Constituents	Worst Case Concentration (mg/kg unless noted as mg/L TCLP)	Other Hazardous Constituents	Worst-Case Concentration (mg/kg unless noted as mg/L TCLP)
5.	LABORATORY CERTIFICATION	INFORMATION		
	official certifications are given. Pl	oratory holds a current certification ease provide a copy of the laborator chemical analyses required by this	ry's current certification lett	test methods insofar as such er for each parameter
	☐ OTHER LABORATORY CERT	TIFICATION (Describe below)		
6.	CERTIFICATION	,		
	I certify that sample results representate approved analytical methods. I also cannot an expression of the analytical prohibited from land disposal in 40 CF applicable treatment standards are clean complete, true, and correct and is accurately that the results of any said testing prohibited items listed in Envirocare's	artify that where necessary representallytical results reported herein. I fulfix 268 (unless prior arrangements a ray indicated on this form. I also carately supported and documented but have been submitted to Enviroca	tative samples were or shall rther certify that the waste or re made for treatment at En- ertify that the information property any laboratory testing as re- re. I certify that the waste of	be provided to Envirocare described in this record is not virocare) and that all rovided on this form is equired by Envirocare. I
Ger	nerator's Signature:	Title:		Date:



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#### LOW-LEVEL RADIOACTIVE WASTE CERTIFICATION ATTACHMENT

This form is required only if the checkbox for Hazardous Material on page one has been checked No. Envirocare may waive the chemical laboratory analyses if the material is not amenable to chemical sampling and analysis (e.g., debris items including metal pieces, concrete, plastic, etc.). Justification for waiving the chemical analyses must be provided in Section B.5.

#### D. MINIMUM REQUIRED CHEMICAL ANALYSIS

If No, indicate "N/A" in Section D.3 below.

The following parameters must be analyzed by a Utah or NELAC certified laboratory. Typical SW-846 analytical methods have been listed. Other approved methods are acceptable. Attach the most recent or applicable chemical analytical results representing the waste.

		SW-846 Analytical Methods	
Soil pH:		Method 9045 Please provide the r	range of the pH analyses performed.
PFLT:	Pass / Fail	Method 9095 Not applicable for l	iquid radioactive waste streams.
Reactive Sulfide:		Method 9034	
Reactive Cyanide:		Method 9014	
2. 40 CFR 261.24 T	able 1 – Contamina	nts of Toxicity Characteristic	
Metals plus Zinc	: Methods 6010 & *	7470 (Envirocare's GWQDP requ	tires zinc analysis) $\square$ TCLP (mg/L) or $\square$ Total (mg/k
A	Arsenic	Chromium	Selenium
I	Barium	Lead	Silver
Ca	dmium	*Mercury	Zinc
Organics, Pestici	des/Herbicides: Me	thods 8081/8151	L) or  Total (mg/kg)
	Endrin	Toxaphene	Chlordane
L	indane	*2,4-D	Heptachlor
	xychlor	*2,4,5-TP Silvex	
	Volatile: Method 827	0 ☐ TCLP (mg/L) or ☐ Total	(mg/kg)
0.	-Cresol	Hexachlorobenzene	Pentrachlorophenol
m	-Cresol	Hexachlorobutadiene	Pyridine
	-Cresol	Hexachloroethane	2,4,5-Trichlorophenol
Total	Cresol	Nitrobenzene	2,4,6-Trichlorophenol
2,4-Dinitro	toluene		
Organics, Volati	le: Method 8260	TCLP (mg/L) or  Total (mg/k)	g)
В	Benzene	1,4-Dichlorobenzene	Methyl ethyl keytone
Carbon Tetrac	chloride	1,2-Dichloroethane	Tetrachloroethylene
Chlorob	enzene	1,1-Dichloroethylene	Trichloroethylene
	oroform		
3. Was the waste at 1	the point of generatio	n a RCRA hazardous waste per 4	0 CFR 261? Y □ N □
If Ves list former	r hazardous waste cod	es and former underlying hazardo	ous constituents. List worst-case concentrations for each nent D.3 to this profile record formatted as below. Atta

the most recent chemical analytical results demonstrating compliance with applicable treatment standards.



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3.	Former EPA HW ( Underlying Hazardous		Treatment Standard (mg/kg unless noted as mg/L TCLP or Technology Code)	Worst Case Concentration (mg/kg unless noted as mg/L TCLP)
4.	OTHER CHEMICAL CONSTITUE List any other chemical constituents of	f concern (e.g., PCBs, chelating	agents, etc.) and worst-case c	oncentrations. If additional
	space is needed, provide an Attachmer Other Chemical Constituents	Worst-Case Concentration (mg/kg unless noted as mg/L TCLP)	Other Hazardous Constituents	Worst-Case Concentration (mg/kg unless noted as mg/L TCLP)
5.	LABORATORY CERTIFICATION	ĭ		
	☐ UTAH or NELAC CERTIFIED  The Utah or NELAC certified labor official certifications are given. Properties analyzed and each method used for the second sec	oratory holds a current certificat lease provide a copy of the labo	ratory's current certification le	al test methods insofar as such etter for each parameter
	☐ OTHER LABORATORY CERT	FIFICATION (Describe below	)	
6.	CERTIFICATION			
	I certify that sample results representa approved analytical methods. I also cannot and to qualified laboratories for the an prohibited from land disposal in 40 CI applicable treatment standards are clear complete, true, and correct and is accurately that the results of any said testi prohibited items listed in Envirocare's	ertify that where necessary repre- lalytical results reported herein. FR 268 (unless prior arrangementarly indicated on this form. I also arately supported and documentating have been submitted to Envi	esentative samples were or shat I further certify that the wastents are made for treatment at E so certify that the information and by any laboratory testing as	all be provided to Envirocare e described in this record is not Envirocare) and that all provided on this form is a required by Envirocare. I

# ATTACHMENT B.5 PHYSICAL PROPERTIES

Generator Name:		Generator # / Waste Stream #:	
Revision #:	Revision Date:		



#### Certified Containerized Waste Profile Record EC-98210, Revision 2

#### 1.0 Generator/Customer Information

Generator Name		Generator Number		
Contractor Name	Dete	(to be assigned by Envirocare)		
Revision Number	Date	Utah Site Access Permit #		
Mailing Address		•		
Phone		Fax		
Location of Waste (	City, State)			
Generator Contact		Title		
Mailing Address (if	different)			
Email Address				
Phone		Fax		
2.0 Class A LLRW	Types to be Certified (check those that	t apply)*		
Licensed:	Y 🗌 N 🔲 DOE 🔲	Asbestos Y N N		
PCB Radioactive	Y 🗌 N 🔲	SNM Y N		
_		_		
Dry active wast		Soil/soil-like material		
Compactibl		Evaporator bottoms/sludges/ concentrates		
Noncompac	ctible	☐ Solidified materials		
☐ Resins		Contaminated water		
☐ Dewatered ☐ Dried		☐ Scintillation products ☐ Filters		
Filters		Resins		
Dewatered		Other (describe below)		
Dried		Incinerator ash		
	cal, pathogenic, or infectious materials	Large objects (>331 cf nominal volume)		
Other material (desc				
•	quest density ranges for the waste types ic	dentified above.		
-				
3.0 Container Type	es to be used for Shipment (check those	e that apply)		
☐ Metal box (nom	inal volume up to 100 cf)	☐ Metal drum (nominal volume up to 15 cf)		
	ner (nominal volume up to 331 cf)	Unpackaged components		
Concrete tank of	r liner (nominal volume up to 331 cf)	High Integrity Container (specify below)		
Polyethlene tanl	k or liner (nominal volume up to 331 cf)	·		
	or liner (nominal volume up to 331 cf)			
Other containers (des				
Any of the above shi				
HICs (list manufactu	rer and model)			



#### 4.0 Supporting Documentation

Please submit the following information relative to the waste forms and container types checked above. The Process Control Program may cover some of the items described below. If so, duplicate submittal is not necessary. Electronic copies of the documentation described below are acceptable and preferred.

- A. Process Control Program, if applicable.
- B. 10 CFR 61 Sampling and Analysis Program
- C. Quality Assurance Program
- D. IE 79-19 Personnel Training Program
- E. Radioactive Waste Shipping Program
- F. Implementing procedures (table of contents) for activities related to waste characterization, waste classification, liquid verification, packaging, and transportation of shipments to Envirocare (if not included in documentation listed above). Include related procedures from brokers or processors if applicable.
- G. NRC or Agreement State and/or third-party industry audit reports related to the above items for the preceding three years. Include any responses and corrective actions prepared relative to reported deficiencies.

#### 5.0 Certification Statement

I certify that all waste shipments to Envirocare under this Generator Certification Record will be characterized in accordance with all applicable NRC and EPA regulations and guidance documents. I further certify that the waste is not restricted from land disposal in 40 CFR 268; nor is the waste treated characteristic or listed hazardous waste under 40 CFR 261.

I further certify that all waste shipments to Envirocare under this Generator Certification Record will be packaged in accordance with the requirements of Envirocare's Radioactive Material License and Containerized Waste Facility - Waste Acceptance Criteria.

I further certify that all waste shipments to Envirocare under this Generator Certification Record will be transported in accordance with all applicable DOT and/or NRC requirements for radioactive material shipments.

Generator's Signature	Date
Printed name	Title



## GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

Can	rice Agreement on F	ile2 TVES TNO		FIN INK OR TYP	Profile Number: WM	M CM	1433
	azardous Non-				Renewal Date:		7
	Vaste Generator In						
				2. SIC	Code:		
1.	Generator Name:			2. 310 4. Pho			
3.	Facility Street Addre	ess.			te/Province:		
5. 7.	Facility City: Zip/Postal Code:				nerator USEPA/Federal I	D#:	
7. 9.	County:				ite/Province ID #:		
3. 11.	Customer Name:			12. Cu	stomer Phone: (	)	
13.	Customer Contact:			14. Cu	stomer Fax:		
	Billing Address					□Sar	ne as above
	Naste Stream Infor	mation					
1.	Description						
	<ul> <li>a. Name of Waste</li> </ul>						
	b. Process Genera	ating Waste:					
					· · · · · · · · · · · · · · · · · · ·		
Г	c. Color	d. Strong odor	e Physical	state @ 70°F	f. Layers	g. Free li	quid range
	C. COIOI	(describe):	□Solid	□Liquid	☐Single Layer	to	%
-		1 (0000,100)	□Gas	∏Sludge	Multi-layer	1	
-		<del>                                     </del>	□Other		_	h. pH: Ra	ange
ŀ					<u></u>	to	%
	i. Liquid Flash Po j. Chemical Com	position (List all constitution representative	e analysis):	ted organics, debris	0-199°F		ubmit
ſ	Constituents		Concentration Rang	e Constitu	ents	Concen	tration Range
ŀ							
ŀ							
ľ							
		TOTA	L COMPOSITION M	UST EQUAL O	R EXCEED 100%		
	k.	□Pyro	phoric	☐Explosive	∏Radioactiv	re	
	Carcinogen	□Infec	tious	☐Shock Sensi	tive		
	I Does the waste	e represented by th	is profile contain any	of the carcino	gens which require OSH/	Ą	_
	notification? (lis	st in Section B.1.i)				•••••	□YES □NO
	m. Does the waste	e represented by th	is profile contain dio	xins? (list in Se	ction B.1.j)		□YES □NO
	n Does the waste	e represented by thi	is profile contain ast	estos?			□YES □NO
	If yes	••••••			[friable [nor	n-triable	
	o. Does the waste	e represented by thi	is profile contain ber	nzene?			□YES □NO
	If yes, concent	ration	ppm	NECLIADO			□YES □NO
	is the waste su	bject to the benzen	e waste operations	NESHAP?			TES NO
						•••••	
	If yes, volatile	organic concentration	on Les Class II azono	ppmw	ances?		□YES □NO
	q. Does the waste	e contain any Class	st in Section B 1 i)	depieting subst	aiices :		YES NO
	r. Does the waste	s Contain debris: (ii	3( 11 0000011 01 1.3)				
2.	Quantity of Waste Estimated Annual		[	TonsYard	ds	pecify) _	
3.	Shipping Informa	tion					
	a. Packaging:						
	☐Bulk Solid; T	ype/Size:			]Bulk Liquid; Type/Size:		
	☐Drum; Type;				Other:		
	b Shipping Frequ	Jency: Units			Quarter TYear One to		
	c. Is this a U.S. D	epartment of Trans	portation (USDOT)	Hazardous Mat	erial? (If no, skip d, e, an	d f)	□YES □NO



### GENERATOR'S WASTE PROFILE SHEET

PLEASE PRINT IN INK OR TYPE

d.	Reportable Quantity (lbs.;	kgs.):	e. Hazard Class/ID #	t:	
f.		- A Dan Jana and A			
	. Personal Protective Equip . Transporter/Transfer Stat	oment Requirements:			
	·				
C. Ge	nerator's Certification (Pl	ease check appropriate respon	ses, sign, and date below.)		
1.	Is this a USEPA hazardous a. If yes, identify ALL USE	waste (40 CFR Part 261)? If the an EPA listed and characteristic waste	swer is no, skip to 2 code numbers (D, F, K, P, U)		□YES □NO
	b. If a characteristic hazar (UHCs) apply? (if yes, li	dous waste, do underlying hazardo	us constituents	□YES □NO	
	c. Does this waste contain	debris? (if yes, list size and type in	Chemical		
2.	Is this a state hazardous was Identify ALL state hazardous	te? waste codes			□YES □NO
3.	If ves, attach Record of Decis	(40 CFR 300, Appendix B) or state ion (ROD), 104/106 or 122 order or clean-up, provide relevant documer	court order that governs site cle	ean-up	□YES □NO
4.	Does the waste represented to regulated by the Nuclear Reg	by this waste profile sheet contain reulatory Commission?	adioactive material, or is disposa	ıl	□YES □NO
5.	Biohenvis (PCBs) regulated b	by this waste profile sheet contain c by 40 CFR 761? (if yes, list in Chemorted into the U.S.?	ical Composition - B.1.j)		□YES □NO
6.	material, and has all relevant suspected hazards pertaining	d all attachments contain true and a information within the possession o to the waste been disclosed to the	f the Generator regarding known Contractor?	) or	□YES □NO
7.	Will all changes which occur it to the Contractor prior to prov	n the character of the waste be idea iding the waste to the Contractor?	ntified by the Generator and disc	losed	□YES □NO
□Che.	ck here if a Certificate of De	struction or Disposal is required	<u></u>		
Any sai sample agent o	mple submitted is representative from any waste shipment for post the generator and has confirmation as it has determined to be	e as defined in 40 CFR 261 - Apper urposes of recertification. If this ce ned the information contained in this reasonably necessary. If approved naracterized and identified by this a	ndix I or by using an equivalent n rtification is made by a broker, th Profile Sheet from information p for management, Contractor ha	ne undersigned signs a provided by the genera	s authorized tor and additional
Certific	cation Signature:		Title:		
Name	(Type or Print):	Comp Check if additional information	pany Name: n is attached. Indicate the nu		Pate:
D. WI		azardous Stabilization	olidification ☐Bioremedia		JSE ONLY ion
2. 3.	Proposed Ultimate Manage Precautions, Special Han	gement Facility: dling Procedures, or Limitation	on Approval:		
		-			
4.	Waste Form	5. Source	6.	System Type	
		•••••			]Disapproved
	person's Signature:		·	Date:	
	on Approval Signature (Option	•		Date:	
Specia	al Waste Approvals Person :	Signature:		Date:	

## Appendix B

SHIPPING DOCUMENTATION

## ENVIROCARE OF UTAH, INC. The Safe Alternative

container return requests.

#### **5 WORKING-DAY SHIPMENT NOTIFICATION**

Revision 3 (EC-98096) \_\_\_\_\_Date: \_\_\_\_\_\_ Generator Name:\_\_\_\_ Gen # - Waste Stream #: \_\_\_\_\_ Utah Site Access Permit No.: \_\_\_\_ Waste Profile Rev#: \_\_\_\_ Rev. Date: \_\_\_\_\_ Contact Name: \_\_\_\_\_ Contact E-mail Address: \_\_\_\_\_ Contact Phone #: \_\_\_\_\_ Phone #: Carrier Company: Waste Type: NORM LLRW 11e. (2) Mixed Waste MW Requiring Treatment PCB Mixed Waste 
Other: PCB Radioactive REQUESTED DATE OF DELIVERY: \_ Shipment delivery dates are subject to change. The shipment is not scheduled unless confirmed by Envirocare's Scheduling Dept. Bulk Container Number & Truck/Trailer Shipment ID Number Type of or Railcar Number Physical Description of Waste (For Intermodal, (e.g. soil, metal, wood, sludge, etc.) Containers Numbers Sealand, etc.) (gen#-ws#-ship#) SPECIAL HANDLING INFORMATION (Please check all items) No Comments - If "Yes", please specify: Yes 1. Do any of the containers have contact dose rates Maximum contact dose rate on container (mrem/hr): greater than 100 mrem/hr? Maximum contact dose rate on item 2. Are there items inside the container with contact dose rates exceeding 100 mrem/hr? (mrem/hr): 3. Are you shipping containers other than a B12, Container type: Dimensions (ft): B25, 55-gal drum, sealand, intermodal, or gondola? 4. If applicable, are drums palletized? □ Not Applicable  $\Box$ Describe oversized debris in the above 5. Is there oversized debris (i.e., no dimension <10" table under "Physical Description" or any dimension >12') in any of the containers? 6. Is any of the waste potentially dusty? 7. For shipments in an enclosed trailer, do any of the Max Weight (lbs.): containers weigh >7,000 lbs.? 8. For shipments, on a flatbed trailer, do any of the Max Weight (lbs.): containers weigh > 14,000 lbs.? Max Weight (lbs.): 9. For bulk containers (e.g., Intermodal, Sea Land, etc.), does the container weigh > 65,000 lbs.? Shipment/Container configuration: 10. Does the shipping container include other containers within (e.g., drums inside an intermodal)? 11. Does the waste contain asbestos? Friable □ or Non-Friable □ (Must comply with 40 CFR Part 61) 12. Any other special handling requirements? Specify:

Please complete and submit the attached form for bulk containers being returned via truck or for other special



# Advanced Shipment Notification Form EC-98242, Revision 1

1.0 Generator Information				
Generator Name				
Generator No.				
***Utah DRC Site Acc. Per. No.				
Contact Name/Email Address				
Contact Phone/Fax No.				
Submittal Date	·	<del> </del>		······································
2.0 Shipment Information				•
Requested Delivery Date				
Total Activity (mCi or curies)				
Maximum Contact Package Dose Ra	te	· · · · · ·		
(mR/hr or R/hr - if more than one page				
highest individual dose rate)	2 ,			
Percent of Each Waste Descriptor by				
Volume (Refer to CWF WAC Section	n			
6.3.5.10)				
Disposal Volume (ft <sup>3</sup> )				<del> </del>
Container Gross Weight (lbs)				
(if more than one pkg, highest indivi-	dual			
gross wt)				<del></del>
Cask Model Number (if applicable)	inchin)			
HIC or Liner Model Number (if appl Conveyance Type (e.g., van)				<del></del>
Waste Class				
Any Special Isotopes* (list)				
SNM (grams)				
Unusual Hazards**				
Special Requirements (Describe)				
Cask Return Address (if applicable)	- List			
company name, address, and phone n	umber)			
* See Section 5.4.10 of the Waste A		addition, any act. Metal	isotopes (C-14, Ni-59, Nb-94, 1	Ni-63)
** See Section 6.11.10 of the Waste *** As listed in Block 5 of Form 540.	Acceptance Criteria.			
As listed in Block 5 of Form 5 to.				
3.0 For Envirocare Use Only				
Shipment ID No.				
<u>-</u>				
Scheduled Delivery Date	· · · · · · · · · · · · · · · · · · ·		· · ·	
CWF Operations Mgr. Approval			<del></del>	
CWF Site RSO Approval			Date	

## ENVIROCARE OF UTAH, INC. The Safe Alternative

### **Request for Container Return**

*Requested Container Return Date:	Truck Type:
Type & Number of Containers:	
Truck No.:	
Trucking Company Name:	
Comments:	•
* The container return date is not scheduled un	less confirmed by Envirocare's Scheduling Department.
For Envirocare use only:	
Site Facility Operator:	Date:
S/R Manager:	Date:
S/P Scheduler:	Date:

City:Contact Person:Phone No: ()				1123	ENV 215	VIVE VASTE	AH, INC. 1160		Ph. (8	01) 5	EC( 32-1330 537-734	)		*	'age 1	Clive I Interst	Disposal S ate 80, Ex		n Pages:	,	-
(2) Bill Disposal Charges T	'n.			(5)				-		((	6)										
Name:	·			TOTAL FOR	EACH CLASS	PROPER SHIPPING NAME & HA	ZARD CLASS	DOT						s	HIPMEN1	TOTAL	S				
P.O. #/Contract #:				# ol	Weight	(Per 49 CFR 172.101	4	ID Number		-	Total # of		ι			Activity	n milliCuri	ies			
Address:				Packages	(Tons)	"NORM" Contarrinated Solids, USD		No. ID#			Packages/	Volume Cu. Ft.	Ra-226	U-238	Th-230	Th-232		<u> </u>	$\top$	All	
City:	State:	Zip:				NORM CONTRIBUTE SOILS, OSC	O I Exempl	140.102		-	Cars, etc.	ļ	na-220	0.200	111-200	111-202		<del>  </del>		Isotopes	
THORE NO.			· · · · · · · · · · · · · · · · · · ·	∄		Radioactive Material - Low Specific	Activity - LSA	UN 2912										1 1			
	State:									MARK REGU APPLI EQUIV	ED AND LAB ILATIONS OF ICABLE AT TH VALENT STAT POSAL RECO	ELED, AM THE DE IE DESIG E REGUL RD HAVE	ID ARE IN PARTMEN NATED DI ATIONS, I BEEN THO	PROPER TOF TR SPOSAL S TIS FURT DROUGHL	ANSPORTA SITE, AND	ON FOR T ATION, AI THE REQ IEIED THA	RANSPO	ERLY CLASSII DRTATION ACI IN COMPLIAN NTS OF 10 CFI EMS ON THIS R AGRAMS, AND	CORDING ICE WITH R PART 61	TO THE AF ALL REQU AND PART	PLICABLI IREMENT: 20.311 OI SHIPMEN
Phone No: ()						RMS AND CONDI				IS TR	UE, CORREC	T, AND C	OMPLETE.	•							
Broker's Signature			Date			ERIALS: Generator represents a ot a hazardous waste as defined it															
				≕ İsa.ha	zardous wast	e, this shipment is also accompan anifest, along with the appropriat	ied by a separa	ite and comp	pleted		Authorized	Signatur	e of Custor	mer			Title			Date	
(4) Carrier:	St	nlpping Date:		and/or	certification a	as required by 40 CFR 268.1. tance at the disposal site by Envi	•			regulator	o authorities (	itle to the	Waeta whi	ich confor	ne in Gener	etor's ren	esentetin	ne herein shell	thereunor	transfer Imn	n Generali
Carrier EPA #(if any): _				l and be	vested in En	virocare of Utah, Inc.				_											
Address:				laws, r	ules, regulation	: Generator represents and warra ons and Envirocare of Utah, Inc.'	s facility license	θ.												-	
City: Contact Person:	State:	Zip:		D. INDEN	MNIFICATION naterial respec	l: Generator agrees to indemnify cts to the data supplied on the R/	Envirocare of U ADIOACTIVE V	tah, Inc., its VASTE SHII	officers, emp PMENT & DI	loyees ar SPOSAL	nd agents agai . RECORD, or	nstalliose if this ship	s and liabil ment fails	ity whatson to meet the	ever if such l e standards	loses or lia prescribe	bility resu d by the D	its from the failu Department of T	ire of the V ransporta	vaste Materia tion or any go	l to conford evernments
Phone No: ()						diction over such matters.					•	•				•	•	·	·	, ,	
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Type of	Container	# of	Cu. Ft. Per												E40.45			<b></b>			
Container	Volume Cu. Ft.	Packages	Container Type		CHECK A	ALL THAT APPLY TO THIS I	OAD: DESC	PIRE INA	DECUACION	S IN C	OMMENTS							E #:			
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2nd Size 3rd Size		<del> </del>			Unexpected	d Exposure Rates Detected.								W	hite, Ye	llow, Pi	nk - Mi	ust accomp	any wa	aste in tra	ansit.
Rall Care:		<del> </del>	H		Labels, Ma	rkings, etc. Inadequate.									M	مطاهميا	mailad				!
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Dump \ Trailer			<del>                                     </del>		_	niegnty inadequate.	SHIPMENT AG	CCEPTED FO	R DISPOSAL				0			Oi	otan p	nor to snip	ment.		
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Other					_ No Violation	ns Detected on this Shipment.								~	ola · Oal	5(011101	оор,				
Other Shipment		<del> </del>	<del> </del>					NSPECTOR			0	ATE						FORM #E 10	^		
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	ENVIROCARE OF UTAH, INC.														RECOR	RECORD #				
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hem Number	Container Type	Container Volume	Container Weight	Physical Form	B Class B.C)	Solidilication Agent (If used)	Waste Description	Chemical Form / Chelating Agent	Chekating Agent %	Radionuclide(s) Present	Total &	Radionuclide Concentration	Special Nuclear	Source Material		adiation L mP/hr) (µ	R/h)	Transport Index	Fissile Class	D. O. T. Label (49 CFR 172.400 )
1,0,1,20	,,,,,	(C.F.)	(lons)		Was A	(fl used)					(mCurles)	(pCl/gram)	Material (Kg)	(Kg)	Surlace	1 Meter	OFFICE USE ONLY	100	(D.T.)	(28)
(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(20)
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PAGE TOTALS

TOTAL ACTIVITY White, Yellow, Pink - Must accompany waste in transit. Green - Must be mailed to and approved by Envirocare of Utah prior to shipment. Gold - Customer copy.

AVG. CONCENTRATION

	NON-HAZARDOUS	1. Generator's U	IS EPA ID No.	Manifest Doc. No	. 2. Page	1	-			
	<b>WASTE MANIFEST</b>				of					
3.	Generator's Name and Mailing Address				1					
		_								
	Generator's Phone ( )				-				•	
5.	Transporter 1 Company Name		6. US EPA	ID Number	A. Ţran	sporter's P	hone			
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7.	Transporter 2 Company Name		ı	ID Number	B. Iran	sporter's I	none		•	
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9.	Designated Facility Name and Site Address		10. 00 Li A	io (valibei	0. 1 201	ity 3 i fioric	•	•		
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11	. Waste Shipping Name and Description		_ <u>L_,</u> ·		1	12. Cont	ainers	_13.		14
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	GENERATOR'S CERTIFICATION: I certify the m		ove on this manifest are n Signature	ot subject to federal regula	tions for re	porting prop	er dispos	al of Hazardo Month	us Was	
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## NYG 2236194

## STATE OF NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID & HAZARDOUS MATERIALS



Please type or print. Do not staple

In case of emergency or spill immediately call the National Response Center (800) 424-8802 and the NYS Department of Environmental Conservation (518) 457-7362

#### HAZARDOUS WASTE MANIFEST P.O. Box 12820, Albany, New York 12212

(Hazardous Waste Manifest 1/5/99)

	UNIFORM HAZARDOUS WASTE MANIFEST	or's L	JS EP	S EPA ID No. Manifest Doc. No.							Page	1 of			tion within heavy bold line equired by Federal Law.							
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	3.Generator's Name and Mailing Addr	255								I	Α.		NY	G :	22:	3 F	36194					
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	4. Generator's Telephone Number ( )													Transporter's ID								
	5. Transporter 1 (Company Name)		6. 1	JS EPA ID N	umber							•								4		
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	11. US DOT Description (Including Pro	oer Shippin	g Nai	me, l	Hazard Clas	s and ID	Numbe	r)				iners	13. Total				. Unit Vt/Vol		I. Waste No.			
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	15. Special Handling Instructions and	Additional I	nforn	natio	n																	
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	16. GENERATOR'S CERTIFICATION: I	hereby dec	lare 1	that t	he contents	of this co	nsign	nent c	ire fu	lly	and	accura	itely d	escri	bed at	ove	by pro	per s	hippin	g name		
	and are classified, packed, marked and national government regulations and s	inte laws ar	ad rei	hulat	ions.																	
	If I am a large guardity apparator I car	tify that I be	nve n	nror	rom in plac	e to redu	ce the	volun	ne an	nd to	oxic	ity of w	aste g	ene	rated to	o the	e degre	e I h	ave de	termined	d	
	to be economically practicable and that present and future threat to human he	alth and the	envi	ironn	nent; OR if I	am a sm	iall que	intity	gene	rate	or, I	have n	nade o	3 go	od faith	eff	ort to	ninim	ize my	waste		
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# Appendix C

SPILL CONTINGENCY PLAN

