

CITY OF LOCKPORT
WASTEWATER TREATMENT PLANT & COMPOST FACILITY
611 WEST JACKSON STREET
LOCKPORT, NY 14094
PHONE: (716) 433-1612 FAX: (716) 433-1397

██████████, Chief Operator

February 6, 2014

██████████
Project Manager
URS Corporation
77 Goodell St.
Buffalo, NY 14203

Re: Disposal of liquid wastewater from Remedial Site in Niagara Falls
(The former Lake Ontario Ordinance Works-LOOW)

Dear ██████████,

After review of the analytical results on the water collected at the remedial site, permission is granted to dispose of said water to the Lockport Wastewater Treatment Facility of approximately 14,000 gallons. Green Environmental Specialists, Inc. is your choice to haul the water from the site and is an approved hauler at our facility. The only restriction that is being placed upon disposal of the water will be limited to two (2) discharges per day three (3) hours apart.

We will bill the Septic Hauler for all charges and they, in turn, will bill URS. Any surcharges/fees at our facility will be waived.

If you have any questions, please contact my office at (716) 433-1613 ext 1.

Sincerely,

██
Pretreatment Coordinator
Lockport WWTP

1387327

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NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number NY 789010 8973	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number
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5. Generator's Name and Mailing Address US Army Corp of Engineers 1776 Niagara St Buffalo, NY 14207 Generator's Phone: 716-879-4289	Generator's Site Address (if different than mailing address) Niagara Falls Storage Site 1377 Pletcher Rd. Lewiston NY 14092
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6. Transporter 1 Company Name Western New York Septic Tank Cng	U.S. EPA ID Number
7. Transporter 2 Company Name	U.S. EPA ID Number

8. Designated Facility Name and Site Address CITY of Lockport Waste Water Treatment Plant 611 Jackson St. Lockport, NY 14094	U.S. EPA ID Number
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9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
	No.	Type		
1. Non-regulated Waste Water (Not regulated by DOT)	1	TT	4000 gal	
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
None

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offoror's Printed/Typed Name: **on behalf of USACE** [Redacted] Month: **06** Day: **16** Year: **14**

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only): _____ Date leaving U.S.: _____
Transporter 2 Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

17b. Alternate Facility (or Generator) U.S. EPA ID Number: _____
Facility's Phone: _____

17c. Signature of Alternate Facility (or Generator) Month: _____ Day: _____ Year: _____

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a
Printed/Typed Name: _____ Signature: _____ Month: _____ Day: _____ Year: _____

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

NY 7890108973

2. Page 1 of

1

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address

US Army Corp of Engineers
1770 Niagara St.
Buffalo NY 14307

Generator's Site Address (if different than mailing address)

Niagara Falls Storage Site
1379 Pletcher Rd.
Lewiston, NY 14092

Generator's Phone:

716-879-4289

6. Transporter 1 Company Name

Western New York Septic Tank Cng.

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address

City of Lockport Waste Water Treatment Plant
611 Jackson St.
Lockport, NY 14094

U.S. EPA ID Number

Facility's Phone:

Lockport, NY 14094 716-433-1613

9. Waste Shipping Name and Description

1. Non-regulated Waste Water
(Not regulated by DOT)

10. Containers

No.

Type

1

TT

11. Total Quantity

4000 gal

12. Unit Wt./Vol.

13. Special Handling Instructions and Additional Information

None

Shipment #1

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offor's Printed/Typed Name

on behalf of USACE

Month Day Year

6 17 14

15. International Shipments

Import to U.S.

Export from U.S.

Port of entry/exit:

Date leaving U.S.:

Transporter Signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name

[Redacted]

Month Day Year

6 17 14

Transporter 2 Printed/Typed Name

[Redacted]

Signature

Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space

Quantity

Type

Residue

Partial Rejection

Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month Day Year

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
NY 7890108973

2. Page 1 of
1

3. Emergency Response Phone

4. Waste Tracking Number

5. Generator's Name and Mailing Address
US ARMY CORP OF ENGINEERS
1776 Niagara St.
Buffalo, NY 14207 716-879-4288

Generator's Site Address (if different than mailing address)
Niagara Falls Storage Site
1397 Pletcher Rd.
Lewiston, NY 14092

6. Transporter 1 Company Name
Western New York Septic Tank Cleaning

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
City of Lockport Wastewater Treatment Plant
611 Jackson St.
Lockport, NY 14094 716-433-1612

U.S. EPA ID Number

9. Waste Shipping Name and Description
Non-Regulated Waste Water

10. Containers
No. Type

11. Total Quantity

12. Unit Wt./Vol.

1. Non-Regulated Material
Not Regulated by DOT

1 11 4000 gal

13. Special Handling Instructions and Additional Information
NONE, Shipment #2

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name
On Behalf of USACE [Redacted] Month Day Year
06 17 14

15. International Shipments Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter Signature (for exports only): [Redacted] Month Day Year
6 17 14

Transporter 2 Printed/Typed Name [Redacted] Signature [Redacted] Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

17b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number

Facility's Phone: 17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name Signature Month Day Year

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY7890106973	2. Page 1 of 1	3. Emergency Response Phone 216-879-1311	4. Manifest Tracking Number 012713108 JJK		
5. Generator's Name and Mailing Address US ARMY CORP OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NY 14207				Generator's Site Address (if different than mailing address) NIAGARA FALLS STORAGE SITE 1397 PLETCHER ROAD LEWISTON, NY			
Generator's Phone: 716-879-4289 ATTN: [REDACTED]							
6. Transporter 1 Company Name ENVIRONMENTAL SERVICE, I.V.					U.S. EPA ID Number OH0017730540		
7. Transporter 2 Company Name					U.S. EPA ID Number		
8. Designated Facility Name and Site Address US ECOLOGY OF IDAHO 20400 LEMLEY ROAD GRAND VIEW, ID 83624					U.S. EPA ID Number ID0073114654		
Facility's Phone: 800-274-1516							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. RC NA3077, HAZARDOUS WASTE, SOLID, N.O.S. (D008) 9, PG III	1	CM	2716	P	D008	T
	2.						
	3.						
	4.						
14. Special Handling Instructions and Additional Information 1) NFSS TDW SCISSOR LIFT, FUSRAP (34473-G) ERG#171 WTS ORDER # 51224							
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.							
Generator's/Offeror's Printed/Typed Name ON BEHALF OF US [REDACTED]					Month	Day	Year
					10	20	2008
16. <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____							
17. Transporter Acknowledgment of Receipt of Materials							
Transporter 1 Printed Name [REDACTED]					Month	Day	Year
					10	29	19
Transporter 2 Printed/Typed Name [REDACTED]					Month	Day	Year
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
Manifest Reference Number: _____							
18b. Alternate Facility (or Generator)					U.S. EPA ID Number		
Facility's Phone: _____							
18c. Signature of Alternate Facility (or Generator)					Month	Day	Year
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1.	2.	3.	4.				
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a							
Printed/Typed Name [REDACTED]					Month	Day	Year
Signature [REDACTED]							

HazMat



DATE

502628

ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.comFAX (716) 827-7217
(716) 827-7200NYDEC #9A-278
EPA ID# NYD980769947

PICK UP

DELIVERY

SHIPPER	NAME NIAGARA FALLS STORAGE SITE	CONSIGNEE	NAME US ECOLOGY
	STREET 107 FLETCHER ROAD		STREET 2000 Lemay Road
	CITY LEWISTON NY 14092		CITY GRAND VIEW ID 8001
	CONTACT NAME		CONTACT NAME
	PHONE		PHONE
	SCHEDULED TIME		

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDf Listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? Y N Explain damage below.

PURCHASE ORDER NO.	WORK ORDER NUMBER	MANIFEST NUMBER 51224	H.M. NUMBER 39817
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LOAD NUMBER	TRACTOR	TRAILER	ROLL OFF BOX	DRIVER NUMBER	DRIVER'S NAME
-------------	---------	---------	--------------	---------------	---------------

EQUIPMENT	MATERIAL DESCRIPTION/MANIFEST NUMBER	QUANTITY	Product unloading station and/or tank approved by:
EQUIPMENT TYPE	Man Hox New Bag	1000	CONSIGNEE'S SIGNATURE
UNIT# DROPPED			Compressor used YES _____ NO _____
UNIT# PICKED UP			In-Transit Heat used: YES _____ NO _____
CONDITION REPORT			Analysis/C of A: YES _____ NO _____

PICK UP

DELIVERY

PICK UP DATE 10/20/14	DRIVER	DAY #1 DATE
ARRIVAL TIME 1300 AM	ARRIVAL TIME	RELEASE TIME
RELEASE TIME 1400 AM	DAY #2 DATE	ARRIVAL TIME
DAY #2 DATE	RELEASE TIME	DAY #3 DATE
ARRIVAL TIME	ARRIVAL TIME	RELEASE TIME
RELEASE TIME	TRAILER CLEAN AND EMPTY UPON DEPARTURE	YES <input type="checkbox"/> NO <input type="checkbox"/>
TRAILER EMPTY UPON ARRIVAL	(if not, explain below—)	COMMENTS: (Explain all delays or discrepancies)
DIP MEASUREMENT (Tankers Only)	INCHES	
COMMENTS: (EXPLAIN ALL DELAYS)		
HAZMAT MATERIALS USED (ex. overpacks, etc.):	YES <input type="checkbox"/> NO <input type="checkbox"/>	
IF YES EXPLAIN:		
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS		
SHIPPER'S SIGNATURE	DATE	CONSIGNEE'S SIGNATURE
	10/20/14	

HAZMAT BILL OF LADING GENERATOR COPY

DID: 26677

GENERATOR	NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY7890108973	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number 51224			
	5. Generator's Name and Mailing Address US ARMY CORP OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NY 14207				Generator's Site Address (if different than mailing address) NIAGARA FALLS STORAGE SITE 1397 PLETCHER ROAD LEWISTON, NY				
	Generator's Phone: 716-879-4289 ATTN:HAROLD LEGGETT								
	6. Transporter 1 Company Name HAZMAT ENVIRONMENTAL GROUP INC.				U.S. EPA ID Number NYD980769947				
	7. Transporter 2 Company Name				U.S. EPA ID Number				
	8. Designated Facility Name and Site Address US ECOLOGY OF IDAHO 20400 LEMLEY ROAD GRAND VIEW, ID 83624				U.S. EPA ID Number IDD073114654				
	Facility's Phone: 800-274-1516								
	9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit Wt./Vol.			
		No.	Type						
1. NON-REGULATED MATERIAL (SITE INVESTIGATION DEBRIS)		1	CM	17,000	P				
2.									
3.									
4.									
13. Special Handling Instructions and Additional Information LJ NPLSS TDW DEBRIS, FUSRAP (34476-0) WTS ORDER # 51224									
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.									
<div style="background-color: black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <div style="float: right; text-align: right;"> Month Day Year 10 20 2008 </div>									
TRANSPORTER	15. International Shipments		<input type="checkbox"/> Import to U.S.		<input type="checkbox"/> Export from U.S.		Port of entry/exit:		
	Transporter Signature (for exports only):						Date leaving U.S.:		
TRANSPORTER	16. Transporter Acknowledgment of Receipt of Materials								
	<div style="background-color: black; width: 100%; height: 40px;"></div>								
DESIGNATED FACILITY	17. Discrepancy								
	17a. Discrepancy Indication Space								
	<input type="checkbox"/> Quantity		<input type="checkbox"/> Type		<input type="checkbox"/> Residue		<input type="checkbox"/> Partial Rejection		
	<input type="checkbox"/> Full Rejection								
17b. Alternate Facility (or Generator)				Manifest Reference Number:					
Facility's Phone:				U.S. EPA ID Number					
17c. Signature of Alternate Facility (or Generator)									
<div style="background-color: black; width: 100%; height: 40px;"></div>									
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a									
Printed/Typed Name		Signature		Month			Day	Year	



WASTE PROFILE FORM

US Ecology Nevada (Beatty) 800-239-3943
US Ecology Idaho (Grand View) 800-274-1516
US Ecology Texas (Robstown) 800-242-3209
US Ecology Michigan (Detroit) 800-396-3265

PROFILE # _____

Form sections: A. GENERATOR INFORMATION, B. SHIPPING INFORMATION, C. GENERAL MATERIAL & REGULATORY INFORMATION. Includes fields for generator name, address, phone, EPA ID, shipping name, container type, waste description, and regulatory codes.

D. MATERIAL COMPOSITION (use additional form if necessary)

Values are: <input type="checkbox"/> TCLP <input checked="" type="checkbox"/> TOTALS		Range total ≥ 100%		
Constituent	Units	Typical	Min	Max
Scissor lift	%		99.5	100
Paint	%		0.5	1
Lead (paint)	mg/kg (ppm)	62000	50000	10000
PCB (paint)	mg/kg (ppm)	2	2	<50

E. WASTE CHARACTERISTICS

1. Oxidizer <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. Reactive sulfides _____ ppm <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. Explosive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. Reactive cyanides _____ ppm <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Organic peroxide <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11. Water/air reactive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Shock sensitive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12. Thermally unstable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Tires <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13. TSCA regulated PCB waste (control sheet required with shipment) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Pyrophoric <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Medical/infectious waste <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7. Compressed gas <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Radioactive (If yes, complete Profile Supplement for Radioactive Waste) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8. Halogenated organics <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
16. Possibility of incidental liquids from transportation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
17. Is waste a solid using the paint filter test? <input checked="" type="checkbox"/> Yes (solid) <input type="checkbox"/> No (not solid)	
18. pH: (If solid, what is pH if mixed with water?) Range _____ to _____ Typical _____ <input type="checkbox"/> ≤ 2 <input checked="" type="checkbox"/> 2 < 12.5 <input type="checkbox"/> ≥ 12.5	
19. Flash Point: <u>N/A SOLID</u> ° F <input type="checkbox"/> < 140 ° F	

F. GENERATOR'S CERTIFICATION

Yes No I certify this material may be disposed without further treatment.

I authorize US Ecology to correct inconsistencies on the waste profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste profile information if substantial changes are determined necessary. I understand material that does not conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties. I certify, under penalty of law, that I am familiar with this waste stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that this form was completed in accordance with the instructions provided.

Print Name 	Signature	Title CONTRACTING OFC. REP.	Date
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US Ecology, Inc. Land Disposal Restriction Form



GENERATOR: US Army Corp of Engineers EPA I.D. NUMBER: NY7890108973
 WASTE STREAM or PROFILE NUMBER: WTS#37535 MANIFEST DOC. NO. TBD LINE NO. 1
 WASTE IS A: WASTEWATER NON-WASTEWATER DEBRIS
 NOTIFICATION FREQUENCY: ONE TIME REQUIRED WITH EACH SHIPMENT
 EPA WASTE CODES (from 40 CFR 268.40) D008 _____
 UHC's (Underlying Hazardous Constituents 40 CFR 268.48)? No Yes - List: N/A debris

- A. **Restricted Waste Meets Treatment Standards (40 CFR 268.7(a) (3))**
 The restricted waste identified above meets the treatment standards in 40 CFR 268.40 or **Alternative LDR treatment standards for contaminated soil 40CFR268.49** and can be landfill disposed without further treatment. I have attached all supporting analytical data, where available.
I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- B. **Restricted Waste Treated To Treatment Standards (40 CFR 268.7(b) (1) & 268.7 (b) (2))**
 The treatment residue, or extract of such residue, or the restricted waste identified above has been tested to assure that the treatment residues or extract meet all applicable treatment standards in 40 CFR 268.40 and/or performance standards in 40 CFR 268.45. I have attached all supporting analytical data, where available.
I certify under penalty of law that I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR Part 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- C. **Restricted Waste With Technology Based Treatment Standards (40 CFR 268.7(b) (4))**
 I certify under penalty of law that I personally have examined and am familiar with the treatment technology and operation of the treatment process used to support this certification and that based on my inquiry of those individuals immediately responsible for obtaining this information. I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards specified in 40 CFR 268.40, without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- D. **Restricted Waste Decharacterized But Requires Treatment For UHC (40 CFR 268.9)**
 I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 to remove the hazardous characteristic. This decharacterized waste contains Underlying Hazardous Constituents (UHC) that require further treatment to meet the universal treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.
- E. **Restricted Waste Subject To Treatment (40 CFR 268.7(a) (2))**
 The restricted waste identified above must be treated to the applicable treatment standards in 40 CFR 268.40, or treated to comply with applicable prohibitions set forth in Part 268.32 or RCRA Section 3004(d). I have attached all supporting analytical data, where available.
- F. **Hazardous Debris Subject To Treatment (40 CFR 268.45)**
 This hazardous debris identified above must be treated to the alternative treatment standards in 40 CFR 268.45.
- G. **Restricted Waste Subject To A Variance or Extension (40 CFR 268.7(a) (4))**
 This restricted waste identified above is subject to a case by case exemption under 40 CFR 268.5, an exemption under 40 CFR 268.6 or a nationwide capacity variance under Subpart C of 40 CFR 268, and is not prohibited from land disposal. LDR prohibitions become effective on _____ (date) for this restricted waste. The corresponding treatment standard(s) are promulgated in 40 CFR 268.40. I have attached all supporting analytical data, where available.
- H. **Restricted Waste Managed In A "Lab Pack" (40 CFR 268.7(a) (9))**
 I certify under penalty of law that I personally have examined and am familiar with the waste and that the lab pack contains only waste that have been excluded under appendix IV to 40 CFR Part 268 and that this lab pack will be sent to a combustion facility in compliance with the alternative treatment standards for lab packs at 40 CFR 268.42(c). I am aware that there are significant penalties for submitting a false certification, including the possibility of a fine and imprisonment.

I certify and warrant that the information that appears on this form, and appended documents, is true and correct. I have correctly indicated how my waste is to be managed in accordance with 40 CFR 268. My certification is based on personal examination of the information submitted, or is based on my inquiries of those individuals responsible for obtaining the information.

Authorized Signature _____ Title CONTRACTING OFC. REP. Date _____



UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# _____

A. GENERATOR INFORMATION		B. DISPOSAL SITE	
1. Generator:	US Army Corps of Engineers, NFSS, Lewiston NY	<input checked="" type="checkbox"/> US Ecology Idaho (complete Pgs 1 <u>and</u> 2)	
2. Common Name of Material:	NFSS SCISSOR LIFT, FUSRAP, WTS#37536 (KSW)	<input type="checkbox"/> US Ecology Nevada (Complete Pg 1 <u>only</u>)	
3. Material Description:	Scissor lift	<input type="checkbox"/> US Ecology Texas (Complete Pg 1 <u>only</u>)	
C. Generally Exempt Unimportant Quantities of Source Material Uniformly Dispersed in Soil or other Media (< 0.05% by weight)			
1. Complete this Section if waste is being profiled as <u>generally exempt</u> source material. Does the material contain? (check all that apply)			
<input checked="" type="checkbox"/> Natural, Refined, or Depleted Uranium		<input type="checkbox"/> Thorium (Th-232)	
		<input type="checkbox"/> Both Uranium and Thorium	
2. Source Material Sum of Fractions (SOF) Formulas:			
Natural Uranium + Thorium		Refined Uranium + Thorium	
$\frac{Conc_{U-238}}{167pCi/g} + \frac{Conc_{Th-232}}{55pCi/g} \leq 1$		$\frac{Conc_{U-Total}}{333pCi/g} + \frac{Conc_{Th-Total}}{110pCi/g} \leq 1$	
$\frac{Conc_{U-238}}{169pCi/g} + \frac{Conc_{Th-232}}{55pCi/g} \leq 1$		$\frac{Conc_{U-238}}{169pCi/g} + \frac{Conc_{Th-232}}{55pCi/g} \leq 1$	
Notes:			
1. Unless otherwise noted, use parent nuclide in equations		5. Refined Uranium refers to chemical forms where the equilibrium state of the uranium decay chain has been disrupted.	
2. Th-232 will routinely be considered to be in equilibrium with all progeny.		6. Depleted Uranium contains U-235 at < 0.71% by weight	
3. Total Uranium = U-234 + U-235 + U-238.			
4. Total Thorium = Th-232 + Th-228			
3. Use this space to perform source material SOF calculations: (if waste only contains U or Th, enter zero for other nuclide)			
<p>U238 29.75/167 = 0.178= <1</p>			
D. NORM other than Uranium and Thorium Uniformly Dispersed in Soil or Other Media			
1. Does the waste contain:	<input type="checkbox"/> Ra-226 / Ra-228	<input type="checkbox"/> Pb-210	<input type="checkbox"/> K-40
			<input type="checkbox"/> Other(s)
2. Waste Concentration (pCi/g):			
Site Limits:	USEI	500 / 1500 ⁽⁴⁾	1500
(all in pCi/g)	USEN	5 ⁽²⁾	N/A
	USET	30 ⁽³⁾	150
			818 ⁽⁴⁾
			818 ⁽⁴⁾
			818 ⁽⁴⁾
Notes(s):			
1. Limits are for Ra-226+Ra-228 combined. 500 pCi/g is for bulk loads, up to 1500 pCi/g requires sealed IP-1 package.			
2. USEN limit is for Ra-226 only.			
3. Limits are for Ra-226 or Ra-228. See TCEQ regulations for other NORM exemptions.			
4. K-40 may not be enriched beyond its natural concentration.			
E. NRC or Agreement State Exempted Products, Devices, or Items			
1. Type of exempt item(s) or product(s)	_____	No. of Items: _____	<input type="checkbox"/> Check if additional inventory information is attached.
2. The items are exempt under:	(cite regulatory reference, i.e. 10CFR30.14) _____		
Notes:			
1. Material must be transported in accordance with DOT Rules and Regulations.			
2. The generator must provide an estimated inventory of activity, by isotope, for each container.			
3. Individual packages may bear White I or Yellow II Labels as long as the maximum surface dose rate on any package does not exceed 10 mrem/hr.			
4. Am-241 based smoke detectors are prohibited from disposal at USEN.			
F. CERTIFICATION STATEMENT:			
I certify that the contents of the package(s) being shipped to <u>Idaho</u> are not licensed or regulated at the point of generation by the US Nuclear Regulatory Commission or an Agreement State, in accordance with <u>10 CFR 40.13(a)</u> (cite regulation or other document that confirms materials are not licensed by the NRC or an agreement state).			
<p>_____</p> <p>Name / Title (please print)</p>			
<p>_____</p> <p>Signature</p>		<p>_____</p> <p>Date</p>	

UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

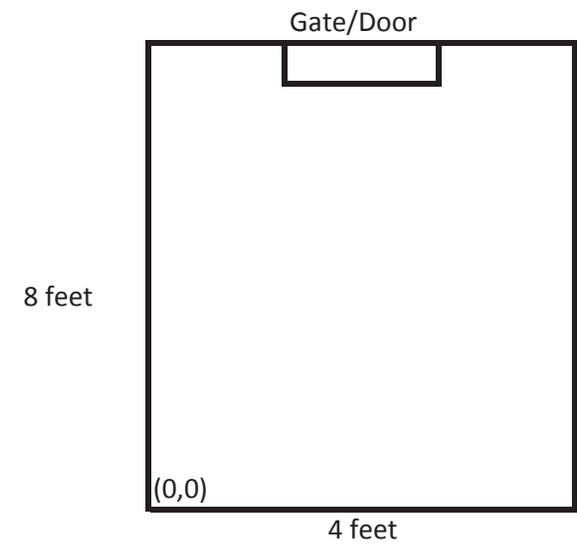
PROFILE# _____

ADDITIONAL RAD SUPPLEMENT QUESTIONS FOR SHIPMENTS TO US ECOLOGY IDAHO ONLY				
G. Particle Accelerator Produced Radioactive Material (NARM) (USEI WAC Table C.3)				
1. Was the waste generated in a particle accelerator? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
2. Estimated inventory of activity, by isotope, for each container: _____ Notes: <ul style="list-style-type: none"> Dose rate may not exceed 10 mrem/hr at any point on the package surface. Containers must be at least 90% full. 				
H. Materials Specifically Exempted by the NRC or NRC Agreement State (USEI WAC Table C.4b)				
1.	Is the material approved for disposal in accordance with 20.2008(b) or equivalent Agreement State regulation? <i>If yes, provide a copy of the exemption.</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
2.	Has the waste been approved by the NRC or an Agreement State for alternative disposal in accordance with 10CFR 20.2002 or an Agreement State equivalent regulation? <i>If yes, provide a copy of the approval request, NRC exemption, and applicable SER/FONSI.</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
3.	Was the material approved for alternate disposal via a decommissioning plan or license amendment? <i>If yes, provide a copy of the license or plan.</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
4.	Is the material acceptable under USEI Table C.4b as not licensed or regulated by the NRC or Agreement State under the Atomic Energy Act? <i>If yes, provide documentation that the radioactive material is unlicensed and refer to the applicable section(s) below (4a – 4c):</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
	Exempt Material	WAC Limit		
4a.	Byproduct Material (Exempt per 10CFR30.11 or equivalent)	Sum of all isotopes < 3,000 pCi/g		
4b.	Source Material (Exempt per 10CFR40.14 or equivalent)	Sum of all isotopes < 3,000 pCi/g. If waste contains <u>both uranium and thorium</u> , a sum of fractions (SOF) must be calculated using the limits provided below: <ul style="list-style-type: none"> Natural Uranium (in equi): <u>U-238 Limit = 214 pCi/g</u> <i>(U-238 * 14 decay progeny < 3,000 pCi/g)</i> Depleted Uranium: <u>U-238 Limit = 877 pCi/g</u> <i>(Only contains U-238, Th-234, Pa-234m, U-235, and U-234)</i> Natural Thorium (in equi): <u>Th-232 Limit = 272 pCi/g</u> <i>(Th-232 * 11 decay progeny < 3,000 pCi/g)</i> <u>Use this space for SOF calculations:</u>		
4c.	Special Nuclear Material (Exempt per 10CFR 70.17)	Sum of all isotopes < 3,000 pCi/g		

For US Ecology Idaho use only:	
Which of the USEI WAC Tables apply to this profile? (Check all that apply)	Waste Type (check only one)
<input type="checkbox"/> Table C.1 - Unimportant Quantities of Source Material Uniformly Dispersed in Soil or other Media	<input type="checkbox"/> FUSRAP
<input type="checkbox"/> Table C.2 - NORM other than Uranium and Thorium Uniformly Dispersed in Soil or Other Media	<input type="checkbox"/> RADIOACTIVE NON-FUSRAP
<input type="checkbox"/> Table C.3 - Particle Accelerator Produced Radioactive Material (NARM)	<input type="checkbox"/> RADIOACTIVE EXEMPT ACCEL
<input type="checkbox"/> Table C.4a - NRC Exempted Products, Devices, or Items	
<input type="checkbox"/> Table C.4b - Materials Specifically Exempted by the US NRC or an NRC Agreement State	

NFSS - Radiation Survey on Contaminated Scissor Lift Deck

X (ft)	Y (ft)	α (cpm)	β (cpm)	α (dpm)	β (dpm)	total DPM*	DPM/CM2	Background	
								Alpha (cpm)	Beta (cpm)
0	0	9	251	38.6	640.3	678.9	6.79	1.0	100.0
0	2	13	137	55.8	349.5	405.3	4.053		
0	4	40	471	171.7	1201.5	1373.2	13.732		
1	0	20	317	85.8	808.7	894.5	8.945		
1	2	23	150	98.7	382.7	481.4	4.814		
1	4	36	347	154.5	885.2	1039.7	10.397		
2	0	31	241	133.0	614.8	747.8	7.478		
2	2	19	147	81.5	375.0	456.5	4.565		
2	4	29	384	124.5	979.6	1104.1	11.041		
3	0	20	200	85.8	510.2	596.0	5.960		
3	2	12	153	51.5	390.3	441.8	4.418		
3	4	33	417	141.6	1063.8	1205.4	12.054		
4	0	25	257	107.3	655.6	762.9	7.629		
4	2	14	153	60.1	390.3	450.4	4.504		
4	4	14	337	60.1	859.7	919.8	9.198		
5	0	31	198	133.0	505.1	638.1	6.381		
5	2	24	200	103.0	510.2	613.2	6.132		
5	4	22	270	94.4	688.8	783.2	7.832		
6	0	17	196	73.0	500.0	573.0	5.730		
6	2	23	125	98.7	318.9	417.6	4.176		
6	4	24	192	103.0	489.8	592.8	5.928		
7	0	18	319	77.3	813.8	891.0	8.910		
7	2	20	182	85.8	464.3	550.1	5.501		
7	4	29	287	124.5	732.1	856.6	8.566		
8	0	21	296	90.1	755.1	845.2	8.452		
8	2	21	197	90.1	502.6	592.7	5.927		
8	4	19	363	81.5	926.0	1007.6	10.076		
Average CPM:		23.3	261.0	100.2	665.9	766.1			



All measurements were collected with Ludlum 43-89 alpha/beta scintillator using one minute counts

Item	Ft2	total CM2	Total DPM	total pCi	item weight (lb)	Item total grams	Ave. pCi/g
Scissor lift	167	155148.1	118858942	54026792	4000	1816000	29.75

29.7 0.177844



*Assumed to be 100 CM2

** Alpha Eff assumed to be 23.3% and Beta Eff assumed to be 39.2%

*** Total surface area of item = 167 sq ft.

**** Convert 1 sq ft. to CM2 = 1 sq ft = 929.0304 CM2/1 sq ft

Readings started at (0, 0) in the bottom left corner of the deck pictured

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-6715-1

TestAmerica Sample Delivery Group: 160-6715
Client Project/Site: Niagara Falls Storage Site

For:

URS Corporation
257 W. Genesee Street
Buffalo, New York 14203

[REDACTED]

[REDACTED]

Authorized for release by:
6/17/2014 12:00:23 PM

[REDACTED] Manager of Project Management
[\[REDACTED\]@testamericainc.com](mailto:[REDACTED]@testamericainc.com)

Designee for

[REDACTED], Project Manager II
(314)298-8566
[\[REDACTED\]@testamericainc.com](mailto:[REDACTED]@testamericainc.com)

LINKS

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results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Job ID: 160-6715-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: URS Corporation

Project: Niagara Falls Storage Site

Report Number: 160-6715-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/16/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

POLYCHLORINATED BIPHENYLS (PCBS) BY GAS CHROMATOGRAPHY

Sample IDW-SL-PAINT (160-6715-1) was analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography in accordance with SW-846 Method 8082 DOD. The samples were prepared on 05/27/2014 and analyzed on 05/28/2014.

Analytical Batch 124117

Due to the high level of matrix interference within the sample, the matrix spike/ matrix spike duplicate (MS/MSD) recovery of Aroclor 1016 was not reported. The MS/MSD recovery and RPD for Aroclor 1260 were acceptable; therefore the sample data has been reported with this narrative. (160-6690-7 MS), (160-6690-7 MSD), (LCS 160-123933/2-A), (MB 160-123933/1-A), BOX (160-6690-7), IDW-SL-PAINT (160-6715-1)

EPA Method 8082/8082A requires a minimum of 3 peaks to be used for PCB quantitation. Due to the presence of multiple aroclors in the

Case Narrative

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Job ID: 160-6715-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

following sample, only 3 peaks were used for quantitation. IDW-SL-PAINT (160-6715-1)

The initial calibration data is the same for these samples, but will only appear once in the level IV data package due to system limitation. It will be included in the 8082 method and not for the 8082A waste dilution method. Therefore the initial calibration data will only be reported from the 8082 method and should be used for the 8082A method. No further action is required. (ICRT 160-121148/17)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS) BY GAS CHROMATOGRAPHY

Sample IDW-SL-HYOIL (160-6715-3) was analyzed for Polychlorinated Biphenyls (PCBs) by Gas Chromatography in accordance with EPA SW-846 Method 8082A. The samples were prepared on 05/22/2014 and analyzed on 05/27/2014.

Analytical Batch 123905

The continuing calibration verification (CCV) associated with batch 123504 recovered above the upper control limit for the surrogate DCB on the confirmation column only. The samples associated with this CCV were non-detects for target analytes; therefore, confirmation is not required and the sample data has been reported with this narrative. The following samples are impacted: (160-6715-3 MS), (160-6715-3 MSD), (CCV 160-123905/23), (LCS 160-123504/2-A), (LCS 160-123504/3-A), (LCS 160-123504/4-A), (LCS 160-123504/5-A), (MB 160-123504/1-A), IDW-SL-HYOIL (160-6715-3).

The matrix spike / matrix spike duplicate (MS/MSD) precision for batch 123504 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the MS/MSD recovery was acceptable, and matrix interference is visible in the chromatography. (160-6715-3 MS), (160-6715-3 MSD), (LCS 160-123504/2-A), (LCS 160-123504/3-A), (LCS 160-123504/4-A), (LCS 160-123504/5-A), (MB 160-123504/1-A), IDW-SL-HYOIL (160-6715-3)

The initial calibration data is the same for these samples, but will only appear once in the level IV data package due to system limitation. It will be included in the 8082 method and not for the 8082A waste dilution method. Therefore the initial calibration data will only be reported from the 8082 method and should be used for the 8082A method. No further action is required. (ICRT 160-121148/17)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL METALS (ICPMS)

Sample IDW-SL-PAINT (160-6715-1) was analyzed for total metals (ICPMS) in accordance with EPA SW-846 Method 6020 DoD. The samples were prepared on 05/28/2014 and analyzed on 06/10/2014.

ICB, CCB, and ICSA samples are evaluated using the lowest LOD and DL criteria in LIMS. Using this criteria, an individual element may occasionally be flagged as out of control. If the element has a higher LOD or DL, the data is evaluated to the higher limit and determined to be acceptable.

The following samples were diluted to bring the concentration of target analytes within the calibration range: (160-6715-1 MS), (160-6715-1 MSD), (160-6715-1 PDS), (160-6715-1 SD), IDW-SL-PAINT (160-6715-1). Elevated reporting limits (RLs) are provided.

Due to the high concentration of lead, the matrix spike / matrix spike duplicate (MS/MSD) could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-6715-1 MS), (160-6715-1 MSD)

The post digestion spike % recovery for lead associated with batch 124143 was outside of control limits. The concentration in the original sample was greater than 4 times the amount spiked in the PDS, making % recovery ineffective. (160-6715-1 PDS)

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Sample IDW-SL-PAINT (160-6715-1) was analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 05/17/2014.

Case Narrative

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Job ID: 160-6715-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

No difficulties were encountered during the % solids analysis.

All quality control parameters were within the acceptance limits.

Organic Prep Observations

Method(s) 3550C: 123933 8082PCB

Due to the paint chip/rusty matrix, the initial volume used for the following sample deviated from the standard procedure: IDW-SL-PAINT (160-6715-1). The reporting limits (RLs) have been adjusted proportionately.

Method(s) 3580A: 3580 123223 8082PCB

Sample was logged in as a waste dilution but a water matrix. Sample matrix was oil, so density was performed. 1mL= 0.91g.
IDW-SL-HYOIL (160-6715-3)

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CHAIN OF CUSTODY RECORD



PROJECT NO. 1176991 00011

SITE NAME Niagara Falls
Shore Site (NFS)

LAB TestAmerica

COOLER 1 of 1

PAGE 1 of 1

TESTS					
Total Lead					
Total PCBs					
Total PCBs					

BOTTLE TYPE AND PRESERVATIVE

16oz. WM plastic-w/impls					
4oz. plastic bottle-w/impls					

hand delivered to lab by URS
DELIVERY SERVICE: _____ AIRBILL NO.: _____

TOTAL NO. # OF CONTAINERS

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	16oz. WM plastic-w/impls	4oz. plastic bottle-w/impls	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
IDW	5-14-14	1215	comp.	IDW-SL-PAINT	SS	1	1		Scissor Lift Paint Chip Scrapings	N1	-	-	
IDW	5-14-14	1115	grab	IDW-SL-HYOIL	LH	1		1	Scissor Lift Hydraulic Oil	N1	-	-	



MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WW - WASTE WATER	WG - GROUND WATER	SO - SOIL	DC - DRILL CUTTINGS	WL - LEACHATE	GS - SOIL GAS	WC - DRILLING WATER	WO - OCEAN WATER	WS - SURFACE WATER	WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
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SAMPLE TYPE CODES	TB# - TRIP BLANK	SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK	FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE	MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
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DATE	TIME	SPECIAL INSTRUCTIONS
5-14-14	15:15	Samples packed in cooler on ice
5/15/14	1700	If any questions, contact Peter Fairbanks at 716-923-1121
5/16/14	1030	Temp 5.4 #1

Distribution: Original accompanies shipment, copy to coordinator field files



Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 160-6715-1

SDG Number: 160-6715

Login Number: 6715

List Number: 1

Creator: [REDACTED]

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Definitions/Glossary

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

Metals

Qualifier	Qualifier Description
D	The reported value is from a dilution.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Undetected at the Limit of Detection.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Method Summary

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SL
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL SL
6020A DOD	Metals (ICP/MS)	SW846	TAL SL
Moisture	Percent Moisture	EPA	TAL SL

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566



Sample Summary

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-6715-1	IDW-SL-PAINT	Solid	05/14/14 12:15	05/16/14 10:30
160-6715-3	IDW-SL-HYOIL	Solid	05/14/14 11:15	05/16/14 10:30

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Detection Summary

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Client Sample ID: IDW-SL-PAINT

Lab Sample ID: 160-6715-1

Analyte	Result	Qualifier	LOQ	DL	Unit	Dil Fac	D	Method	Prep Type
PCB-1254	1700		340	57	ug/Kg	1	☼	8082	Total/NA
PCB-1260	420		340	57	ug/Kg	1	☼	8082	Total/NA
Polychlorinated biphenyls, Total	2100		340	57	ug/Kg	1	☼	8082	Total/NA
Lead	62000	D J	28	9.4	mg/Kg	200	☼	6020A DOD	Total/NA

Client Sample ID: IDW-SL-HYOIL

Lab Sample ID: 160-6715-3

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis



Client Sample Results

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Client Sample ID: IDW-SL-PAINT

Lab Sample ID: 160-6715-1

Date Collected: 05/14/14 12:15

Matrix: Solid

Date Received: 05/16/14 10:30

Percent Solids: 97.3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	90	U	340	90	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1221	90	U	340	90	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1232	90	U	340	90	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1242	90	U	340	90	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1248	90	U	340	90	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1254	1700		340	57	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1260	420		340	57	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1262	57	U	340	57	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
PCB-1268	57	U	340	57	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1
Polychlorinated biphenyls, Total	2100		340	57	ug/Kg	☼	05/27/14 11:34	05/28/14 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		60 - 125	05/27/14 11:34	05/28/14 13:26	1

Method: 6020A DOD - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	62000	D J	28	9.4	mg/Kg	☼	05/28/14 10:32	06/10/14 00:29	200

Client Sample ID: IDW-SL-HYOIL

Lab Sample ID: 160-6715-3

Date Collected: 05/14/14 11:15

Matrix: Solid

Date Received: 05/16/14 10:30

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	440	U J	990	440	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1221	440	U	990	440	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1232	440	U	990	440	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1242	440	U	990	440	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1248	440	U	990	440	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1254	300	U	990	300	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1260	300	U	990	300	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1262	300	U	990	300	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
PCB-1268	300	U	990	300	ug/Kg		05/22/14 14:48	05/27/14 14:50	1
Polychlorinated biphenyls, Total	300	U	990	300	ug/Kg		05/22/14 14:48	05/27/14 14:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	75		33 - 150	05/22/14 14:48	05/27/14 14:50	1

QC Sample Results

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 160-123933/1-A
Matrix: Solid
Analysis Batch: 124117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123933

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	8.7	U	33	8.7	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1221	8.7	U	33	8.7	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1232	8.7	U	33	8.7	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1242	8.7	U	33	8.7	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1248	8.7	U	33	8.7	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1254	5.5	U	33	5.5	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1260	5.5	U	33	5.5	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1262	5.5	U	33	5.5	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
PCB-1268	5.5	U	33	5.5	ug/Kg		05/27/14 11:34	05/28/14 12:06	1
Polychlorinated biphenyls, Total	5.5	U	33	5.5	ug/Kg		05/27/14 11:34	05/28/14 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	109		60 - 125	05/27/14 11:34	05/28/14 12:06	1

Lab Sample ID: LCS 160-123933/2-A
Matrix: Solid
Analysis Batch: 124117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123933

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	159		ug/Kg		96	40 - 140
PCB-1260	167	180		ug/Kg		108	60 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	114		60 - 125

Lab Sample ID: 160-6690-A-7-J MS
Matrix: Solid
Analysis Batch: 124117

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 123933

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1260	6.1	U	184	147		ug/Kg	☼	80	60 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	89		60 - 125

Lab Sample ID: 160-6690-A-7-K MSD
Matrix: Solid
Analysis Batch: 124117

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 123933

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1260	6.1	U	185	144		ug/Kg	☼	78	60 - 130	2	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	82		60 - 125

QC Sample Results

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 160-123504/1-A
Matrix: Solid
Analysis Batch: 123905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 123504

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	440	U	1000	440	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1221	440	U	1000	440	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1232	440	U	1000	440	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1242	440	U	1000	440	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1248	440	U	1000	440	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1254	300	U	1000	300	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1260	300	U	1000	300	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1262	300	U	1000	300	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
PCB-1268	300	U	1000	300	ug/Kg		05/22/14 14:48	05/27/14 13:14	1
Polychlorinated biphenyls, Total	300	U	1000	300	ug/Kg		05/22/14 14:48	05/27/14 13:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	114		33 - 150	05/22/14 14:48	05/27/14 13:14	1

Lab Sample ID: LCS 160-123504/2-A
Matrix: Solid
Analysis Batch: 123905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 123504

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	5000	5160		ug/Kg		103	75 - 135
PCB-1260	5000	5420		ug/Kg		108	71 - 137

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	117		33 - 150

Lab Sample ID: 160-6715-3 MS
Matrix: Solid
Analysis Batch: 123905

Client Sample ID: IDW-SL-HYOIL
Prep Type: Total/NA
Prep Batch: 123504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	440	U J	5000	4100		ug/Kg		82	22 - 140
PCB-1260	300	U	5000	3330		ug/Kg		67	36 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	87		33 - 150

Lab Sample ID: 160-6715-3 MSD
Matrix: Solid
Analysis Batch: 123905

Client Sample ID: IDW-SL-HYOIL
Prep Type: Total/NA
Prep Batch: 123504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1016	440	U J	4950	4360	J	ug/Kg		88	22 - 140	33	30
PCB-1260	300	U	4950	3200		ug/Kg		65	36 - 135	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	88		33 - 150

TestAmerica St. Louis

QC Sample Results

Client: URS Corporation
 Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
 SDG: 160-6715

Method: 6020A DOD - Metals (ICP/MS)

Lab Sample ID: MB 160-124143/1-A
Matrix: Solid
Analysis Batch: 126027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 124143

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.093	U	0.28	0.093	mg/Kg		05/28/14 10:32	06/10/14 00:16	2

Lab Sample ID: LCS 160-124143/2-A
Matrix: Solid
Analysis Batch: 126027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 124143

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	96.8	97.4		mg/Kg		101	80 - 120

Lab Sample ID: 160-6715-1 MS
Matrix: Solid
Analysis Batch: 126027

Client Sample ID: IDW-SL-PAINT
Prep Type: Total/NA
Prep Batch: 124143

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	62000	D J	101	65000	D 4	mg/Kg	☼	2601	80 - 120

Lab Sample ID: 160-6715-1 MSD
Matrix: Solid
Analysis Batch: 126027

Client Sample ID: IDW-SL-PAINT
Prep Type: Total/NA
Prep Batch: 124143

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Lead	62000	D J	96.7	62800	D 4	mg/Kg	☼	455	80 - 120	3	20

QC Association Summary

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

GC Semi VOA

Prep Batch: 123504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-6715-3	IDW-SL-HYOIL	Total/NA	Solid	3580A	
160-6715-3 MS	IDW-SL-HYOIL	Total/NA	Solid	3580A	
160-6715-3 MSD	IDW-SL-HYOIL	Total/NA	Solid	3580A	
LCS 160-123504/2-A	Lab Control Sample	Total/NA	Solid	3580A	
MB 160-123504/1-A	Method Blank	Total/NA	Solid	3580A	

Analysis Batch: 123905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-6715-3	IDW-SL-HYOIL	Total/NA	Solid	8082A	123504
160-6715-3 MS	IDW-SL-HYOIL	Total/NA	Solid	8082A	123504
160-6715-3 MSD	IDW-SL-HYOIL	Total/NA	Solid	8082A	123504
LCS 160-123504/2-A	Lab Control Sample	Total/NA	Solid	8082A	123504
MB 160-123504/1-A	Method Blank	Total/NA	Solid	8082A	123504

Prep Batch: 123933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-6690-A-7-J MS	Matrix Spike	Total/NA	Solid	3550C	
160-6690-A-7-K MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	
160-6715-1	IDW-SL-PAINT	Total/NA	Solid	3550C	
LCS 160-123933/2-A	Lab Control Sample	Total/NA	Solid	3550C	
MB 160-123933/1-A	Method Blank	Total/NA	Solid	3550C	

Analysis Batch: 124117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-6690-A-7-J MS	Matrix Spike	Total/NA	Solid	8082	123933
160-6690-A-7-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	123933
160-6715-1	IDW-SL-PAINT	Total/NA	Solid	8082	123933
LCS 160-123933/2-A	Lab Control Sample	Total/NA	Solid	8082	123933
MB 160-123933/1-A	Method Blank	Total/NA	Solid	8082	123933

Metals

Prep Batch: 124143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-6715-1	IDW-SL-PAINT	Total/NA	Solid	3050B	
160-6715-1 MS	IDW-SL-PAINT	Total/NA	Solid	3050B	
160-6715-1 MSD	IDW-SL-PAINT	Total/NA	Solid	3050B	
LCS 160-124143/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 160-124143/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 126027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-6715-1	IDW-SL-PAINT	Total/NA	Solid	6020A DOD	124143
160-6715-1 MS	IDW-SL-PAINT	Total/NA	Solid	6020A DOD	124143
160-6715-1 MSD	IDW-SL-PAINT	Total/NA	Solid	6020A DOD	124143
LCS 160-124143/2-A	Lab Control Sample	Total/NA	Solid	6020A DOD	124143
MB 160-124143/1-A	Method Blank	Total/NA	Solid	6020A DOD	124143

TestAmerica St. Louis

QC Association Summary

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

General Chemistry

Analysis Batch: 122677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-6697-A-18 DU	Duplicate	Total/NA	Solid	Moisture	
160-6715-1	IDW-SL-PAINT	Total/NA	Solid	Moisture	

1

2

3

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Surrogate Summary

Client: URS Corporation
Project/Site: Niagara Falls Storage Site

TestAmerica Job ID: 160-6715-1
SDG: 160-6715

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (60-125)	DCB2 (60-125)
160-6690-A-7-J MS	Matrix Spike	89	94
160-6690-A-7-K MSD	Matrix Spike Duplicate	82	88
160-6715-1	IDW-SL-PAINT	82	84
LCS 160-123933/2-A	Lab Control Sample	114	118
MB 160-123933/1-A	Method Blank	109	113

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (33-150)
160-6715-3	IDW-SL-HYOIL	75
160-6715-3 MS	IDW-SL-HYOIL	87
160-6715-3 MSD	IDW-SL-HYOIL	88
LCS 160-123504/2-A	Lab Control Sample	117
MB 160-123504/1-A	Method Blank	114

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)



Certificate Of Calibration

243 Root Street Suite 100
Olean, New York 14760

This Certificate will be accompanied by Calibration Charts or Readings where Applicable

Customer		Instrument	
Customer Name: US Army Corps of Engineers		Manufacturer: Ludlum Measurements	
Address: 1776 Niagara Street Building 1 Buffalo, NY 14207		Model: 2360	Serial Number: 220228
Contact Name: [REDACTED]		Detector Manufacturer: Ludlum Measurements	
Customer PO/ CC. Number: CC		Det. Model: 43-93	Serial Number: PR235269
Work Order Number: 2013-4514		Calibration Method: Electronic	
Instrument Received: <input type="checkbox"/> Within Tolerance <input type="checkbox"/> Out of Tolerance <input checked="" type="checkbox"/> Repairs required <input type="checkbox"/> Other (See Comments)			
<input checked="" type="checkbox"/> Geotropism <input checked="" type="checkbox"/> Meter Zero <input checked="" type="checkbox"/> Mech. Ck. <input checked="" type="checkbox"/> HV Readout <input checked="" type="checkbox"/> Battery Check <input checked="" type="checkbox"/> Reset			
<input checked="" type="checkbox"/> Audio <input checked="" type="checkbox"/> Window Status <input type="checkbox"/> FS Response <input type="checkbox"/> Linearity <input type="checkbox"/> Background Subtract <input checked="" type="checkbox"/> Alarm Set			
Temperature: 71.6 F		Humidity: 58 %	
Pressure: 28.3 in Hg		Altitude: 1450 ft	

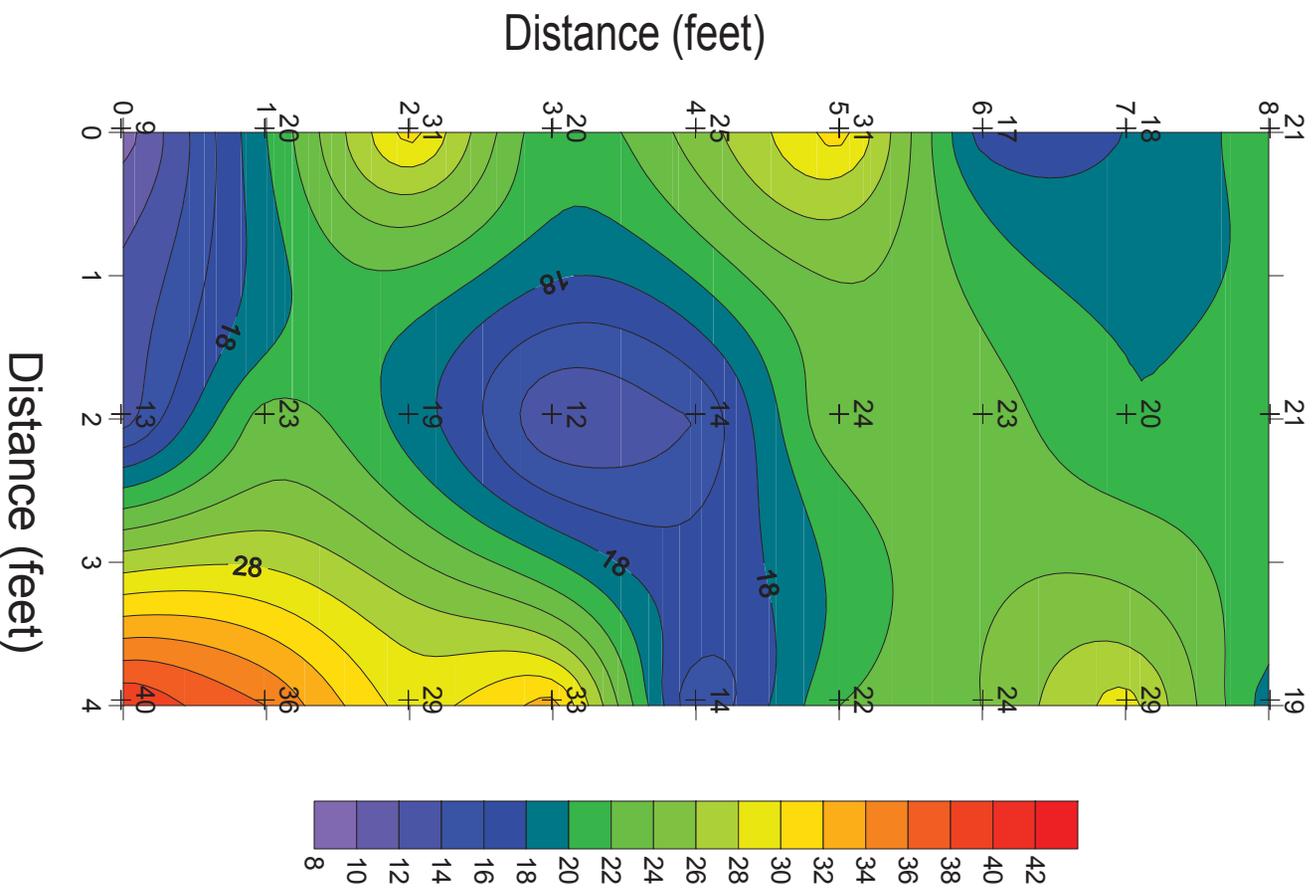
Instrument Calibration						
Multiplier\Range	Calibration Point	Instrument Response		Reference instruments and / or Sources		
		Before Calibration	After Calibration	Pulser: 500-2	220106	
X 1	100 cpm	100 cpm	100 cpm	Pu239	C7-635	Sr90 C7-638
X 1	400 cpm	400 cpm	400 cpm	Tc99	C7-642	
X 10	1 kcpm	1 kcpm	1 kcpm	Comments		
X 10	4 kcpm	4.05 kcpm	4.05 kcpm	Inst. Voltage:	752 V	Isotope Efficiency Distance
X 100	10 kcpm	10 kcpm	10 kcpm	Window Status		Pu239 23.3% 0 inch
X 100	40 kcpm	40.5 kcpm	40.5 kcpm	Beta threshold:	3.5 mV	Sr90 39.2% 0 inch
X 1K	100 kcpm	100 kcpm	100 kcpm	Beta window:	30 mV	Tc99 17% 0 inch
X 1K	400 kcpm	405 kcpm	405 kcpm	Alpha threshold:	120 mV	
Digital Scaler	40 cpm	40 cpm	40 cpm			Rate alarm: 50 kcpm
Digital Scaler	400 cpm	400 cpm	400 cpm			Scaler alarm: 500 kcpm
Digital Scaler	4 kcpm	4.001 kcpm	4.001 kcpm			Ref. Voltage 1: 500 V
Digital Scaler	40 kcpm	39.995 kcpm	39.995 kcpm			Inst. Voltage 1: 500 V
Digital Scaler	400 kcpm	399.936 kcpm	399.936 kcpm			Ref. Voltage 2: 1500 V
						Inst. Voltage 2: 1510 V
				Alpha crosstalk in the Beta channel is <10%		
				Beta crosstalk in the Alpha channel is <1%		
				Verified Overload operation.		

Statement of Certification
<p>MJW Technical Services, Inc certifies that the above instrument has been calibrated by standards traceable to the National Institute of Standards and Technology or to the calibration facilities of other International Standards organization members, or have been derived from accepted values of natural physical constants or have been derived by the ratio type of calibration techniques. The calibration system conforms to the requirements of ISO/IEC 17025 and ANSI N323. The Instrument listed above was inspected prior to shipment and it met all the manufacturer's published operating specifications. (MJW Technical Services is not responsible for damage incurred during shipment or use of this instrument).</p>
<p>[REDACTED] 5/27/13</p>

Niagara Falls Storage Site

Scissor Lift Radiation Survey - Alpha Radiation Readings (cpm)

One minute count collected with Ludlum 43-89 alpha/beta scintillator

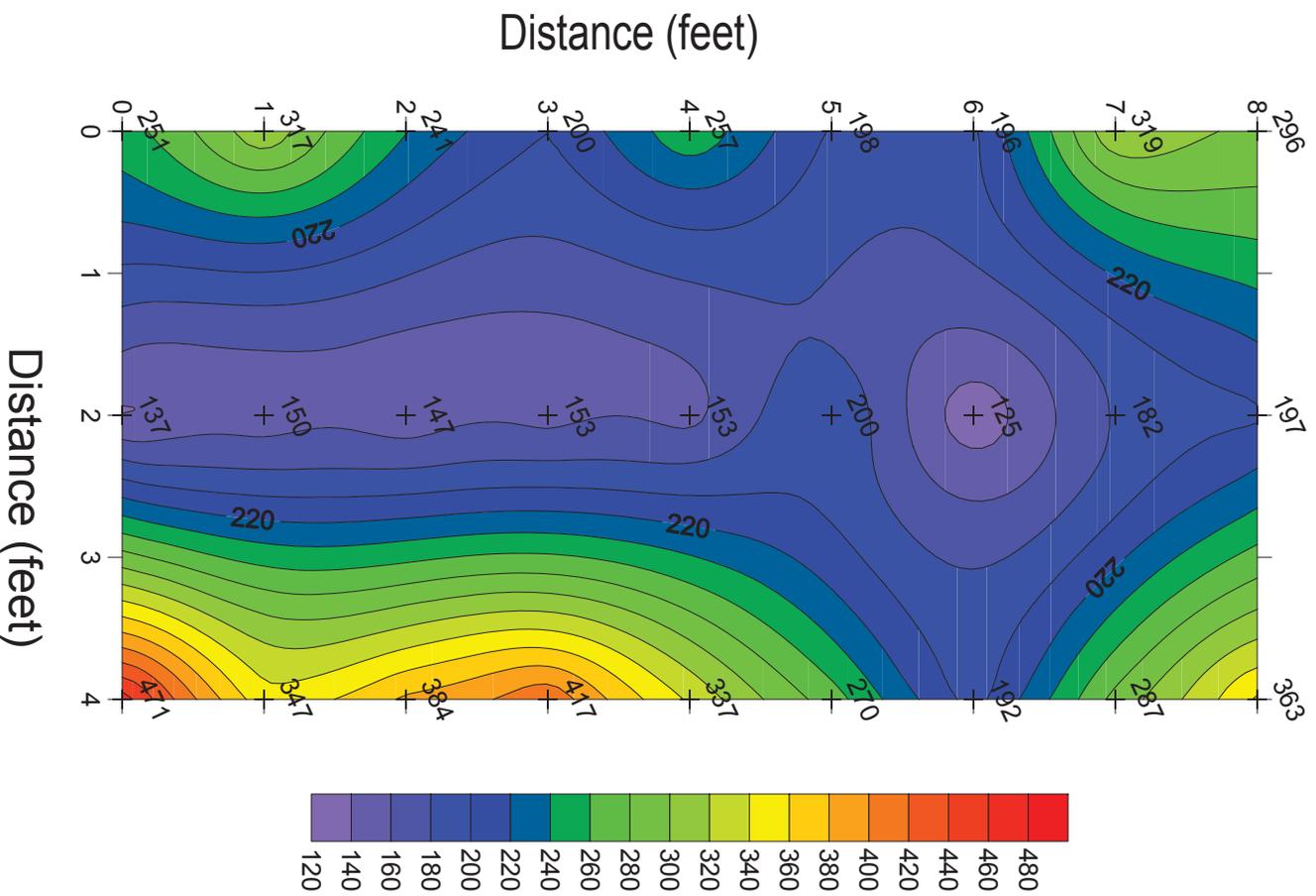


US Army Corps of Engineers - 11/15/2013
Data Collected by: [REDACTED]

Niagara Falls Storage Site

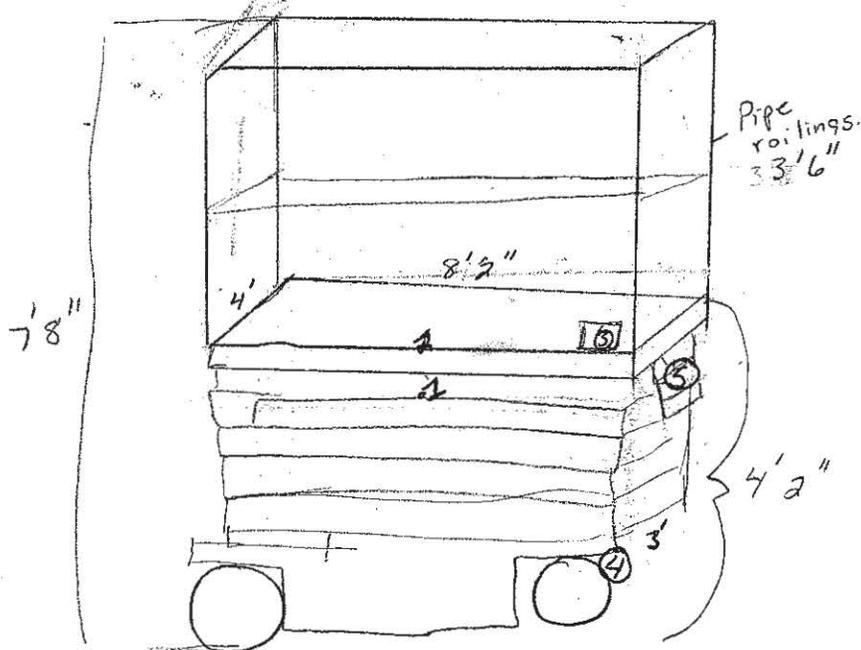
Scissor Lift Radiation Survey - Beta Radiation Readings (cpm)

One minute count collected with Ludlum 43-89 alpha/beta scintillator



US Army Corps of Engineers - 11/15/2013
Data Collected by: [REDACTED]

Project NFSS 2013 Investigation	URS Survey	Direct Scan	Fixed Point
Survey Type <u>Routine</u>	Description <u>Sizzac Lift</u>	Meter/Probe <u>19</u>	Meter/Probe <u>2360/4393</u>
Tech [REDACTED]	Denotes Smear Location ○	Serial# <u>144060</u>	Serial# <u>276943 / 197430</u>
Date <u>12/13/2013</u>	Denotes Contact Readings *	Cal Due <u>11/7/2014</u>	Cal Due <u>10/31/14</u>
	All Readings in cpm unless other wise noted	Bkg <u>6</u>	Bkg <u>2, 125, 123</u>
		Units <u>wr/h</u>	Units <u>Counts</u>



Dose rate
6-8 wR/h.

Smear Results*

Smear	Location	α cts	β cts	Ct time	Inst
1	top of Knuckle				
2	Deck				
3	Control				
4	tires	0			
5	Step				
Fixed Pt results					
		d.cpm	B.cpm	Both.cpm	
1	top of Knuckle	3	369	369	
2	Deck	30	261	291	
3	Control	32	262	292	
4	tires	4	171	175	
5	Step	14	372	386	

Inst A <u>2929</u>	Inst B <u>2929</u>
Serial# <u>137607</u>	Serial# <u>147736</u>
Cal Due <u>10/31/14</u>	Cal Due <u>10/28/14</u>
Tech [REDACTED]	
Date <u>12/13/13</u>	

The lift is rusted at the joints but overall condition is fair no obvious dirt but some flaking paint.

* See smear counter data sheet for dpm results



WASTE PROFILE FORM

US Ecology Nevada (Beatty) 800-239-3943
US Ecology Idaho (Grand View) 800-274-1516
US Ecology Texas (Robstown) 800-242-3209
US Ecology Michigan (Detroit) 800-396-3265

PROFILE # _____

Form with sections A (Generator Information), B (Shipping Information), and C (General Material & Regulatory Information). Includes fields for generator name, address, contact info, shipping details, and waste characteristics.

D. MATERIAL COMPOSITION (use additional form if necessary)

Values are: <input type="checkbox"/> TCLP <input checked="" type="checkbox"/> TOTALS		Range total ≥ 100%		
Constituent	Units	Typical	Min	Max
BRICK AND MORTAR FROM MANWAY ASSEMBLY	%		40	60
18" DIAMETER STEEL PIPE & SEDIMENT (MH-06-SEWER-LINE-BTW-IN)	%		5	15
PPE / PLASTIC DEBRIS FROM SITE INVESTIGATION	%		25	55

E. WASTE CHARACTERISTICS

1. Oxidizer <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. Reactive sulfides _____ ppm <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. Explosive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. Reactive cyanides _____ ppm <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Organic peroxide <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11. Water/air reactive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Shock sensitive <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	12. Thermally unstable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Tires <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13. TSCA regulated PCB waste (control sheet required with shipment) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Pyrophoric <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Medical/infectious waste <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7. Compressed gas <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Radioactive (If yes, complete Profile Supplement for Radioactive Waste) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8. Halogenated organics <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
16. Possibility of incidental liquids from transportation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
17. Is waste a solid using the paint filter test? <input checked="" type="checkbox"/> Yes (solid) <input type="checkbox"/> No (not solid)	
18. pH: (If solid, what is pH if mixed with water?) Range _____ to _____ Typical _____ <input type="checkbox"/> ≤ 2 <input checked="" type="checkbox"/> 2 < 12.5 <input type="checkbox"/> ≥ 12.5	
19. Flash Point: <u>N/A SOLID</u> ° F <input type="checkbox"/> < 140 ° F	

F. GENERATOR'S CERTIFICATION

Yes No I certify this material may be disposed without further treatment.

I authorize US Ecology to correct inconsistencies on the waste profile form that impact waste management decisions with my oral or written authorization. US Ecology will require re-submittal of the waste profile information if substantial changes are determined necessary. I understand material that does not conform to specifications described in this profile may be rejected by US Ecology unless other contractual arrangements have been agreed to by both parties. I certify, under penalty of law, that I am familiar with this waste stream through analysis and/or process knowledge, and that all information provided is true, accurate, representative and complete, that all known or suspected hazards have been disclosed, and that this form was completed in accordance with the instructions provided.

Print Name 	Signature	Title CONTRACTING OFC. REP.	Date
--	-----------	--------------------------------	------



UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# _____

A. GENERATOR INFORMATION		B. DISPOSAL SITE	
1. Generator:	US Army Corps of Engineers, NFSS, Lewiston NY	<input checked="" type="checkbox"/>	US Ecology Idaho (complete Pgs 1 and 2)
2. Common Name of Material:	NFSS IDW Debris, FUSRAP, WTS#37535 (KSW)	<input type="checkbox"/>	US Ecology Nevada (Complete Pg 1 only)
3. Material Description:	Debris and hardened sediment from site investigation	<input type="checkbox"/>	US Ecology Texas (Complete Pg 1 only)
C. Generally Exempt Unimportant Quantities of Source Material Uniformly Dispersed in Soil or other Media (< 0.05% by weight)			
1. Complete this Section if waste is being profiled as <u>generally exempt</u> source material. Does the material contain? (check all that apply)			
<input checked="" type="checkbox"/> Natural, Refined, or Depleted Uranium		<input type="checkbox"/> Thorium (Th-232)	
		<input type="checkbox"/> Both Uranium and Thorium	
2. Source Material Sum of Fractions (SOF) Formulas:			
Natural Uranium + Thorium		Refined Uranium + Thorium	
$\frac{Conc_{U-238}}{167pCi/g} + \frac{Conc_{Th-232}}{55pCi/g} \leq 1$		$\frac{Conc_{U-Total}}{333pCi/g} + \frac{Conc_{Th-Total}}{110pCi/g} \leq 1$	
$\frac{Conc_{U-238}}{169pCi/g} + \frac{Conc_{Th-232}}{55pCi/g} \leq 1$		$\frac{Conc_{U-238}}{169pCi/g} + \frac{Conc_{Th-232}}{55pCi/g} \leq 1$	
Notes: 1. Unless otherwise noted, use parent nuclide in equations 2. Th-232 will routinely be considered to be in equilibrium with all progeny. 3. Total Uranium = U-234 + U-235 + U-238. 4. Total Thorium = Th-232 + Th-228 5. Refined Uranium refers to chemical forms where the equilibrium state of the uranium decay chain has been disrupted. 6. Depleted Uranium contains U-235 at < 0.71% by weight			
3. Use this space to perform source material SOF calculations: (if waste only contains U or Th, enter zero for other nuclide)			
<p>U238 54.3/167 = 0.325 = <1</p>			
D. NORM other than Uranium and Thorium Uniformly Dispersed in Soil or Other Media			
1. Does the waste contain:	<input type="checkbox"/> Ra-226 / Ra-228	<input type="checkbox"/> Pb-210	<input type="checkbox"/> K-40
	<input type="checkbox"/> Other(s)		
2. Waste Concentration (pCi/g):			
Site Limits: USEI	500 / 1500 ⁽¹⁾	1500	818 ⁽⁴⁾
(all in pCi/g) USEN	5 ⁽²⁾	N/A	818 ⁽⁴⁾
USET	30 ⁽³⁾	150	818 ⁽⁴⁾
Notes(s): 1. Limits are for Ra-226+Ra-228 combined. 500 pCi/g is for bulk loads, up to 1500 pCi/g requires sealed IP-1 package. 2. USEN limit is for Ra-226 only. 3. Limits are for Ra-226 or Ra-228. See TCEQ regulations for other NORM exemptions. 4. K-40 may not be enriched beyond its natural concentration.			
E. NRC or Agreement State Exempted Products, Devices, or Items			
1. Type of exempt item(s) or product(s)	_____	No. of Items: _____	<input type="checkbox"/> Check if additional inventory information is attached.
2. The items are exempt under: _____			
(cite regulatory reference, i.e. 10CFR30.14)			
Notes: 1. Material must be transported in accordance with DOT Rules and Regulations. 2. The generator must provide an estimated inventory of activity, by isotope, for each container. 3. Individual packages may bear White I or Yellow II Labels as long as the maximum surface dose rate on any package does not exceed 10 mrem/hr. 4. Am-241 based smoke detectors are prohibited from disposal at USEN.			
F. CERTIFICATION STATEMENT:			
I certify that the contents of the package(s) being shipped to <u>Idaho</u> are not licensed or regulated at the point of generation by the US Nuclear Regulatory Commission or an Agreement State, in accordance with <u>10 CFR 40.13(a)</u> (cite regulation or other document that confirms materials are not licensed by the NRC or an agreement state).			
_____ Name / Title (please print)			
_____ Signature		_____ Date	

UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# _____

ADDITIONAL RAD SUPPLEMENT QUESTIONS FOR SHIPMENTS TO US ECOLOGY IDAHO ONLY				
G. Particle Accelerator Produced Radioactive Material (NARM) (USEI WAC Table C.3)				
1. Was the waste generated in a particle accelerator? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
2. Estimated inventory of activity, by isotope, for each container: _____ Notes: <ul style="list-style-type: none"> Dose rate may not exceed 10 mrem/hr at any point on the package surface. Containers must be at least 90% full. 				
H. Materials Specifically Exempted by the NRC or NRC Agreement State (USEI WAC Table C.4b)				
1.	Is the material approved for disposal in accordance with 20.2008(b) or equivalent Agreement State regulation? <i>If yes, provide a copy of the exemption.</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
2.	Has the waste been approved by the NRC or an Agreement State for alternative disposal in accordance with 10CFR 20.2002 or an Agreement State equivalent regulation? <i>If yes, provide a copy of the approval request, NRC exemption, and applicable SER/FONSI.</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
3.	Was the material approved for alternate disposal via a decommissioning plan or license amendment? <i>If yes, provide a copy of the license or plan.</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
4.	Is the material acceptable under USEI Table C.4b as not licensed or regulated by the NRC or Agreement State under the Atomic Energy Act? <i>If yes, provide documentation that the radioactive material is unlicensed and refer to the applicable section(s) below (4a – 4c):</i>	Yes	<input type="checkbox"/>	No <input type="checkbox"/>
	Exempt Material	WAC Limit		
4a.	Byproduct Material (Exempt per 10CFR30.11 or equivalent)	Sum of all isotopes < 3,000 pCi/g		
4b.	Source Material (Exempt per 10CFR40.14 or equivalent)	Sum of all isotopes < 3,000 pCi/g. If waste contains <u>both uranium and thorium</u> , a sum of fractions (SOF) must be calculated using the limits provided below: <ul style="list-style-type: none"> Natural Uranium (in equi): <u>U-238 Limit = 214 pCi/g</u> <i>(U-238 * 14 decay progeny < 3,000 pCi/g)</i> Depleted Uranium: <u>U-238 Limit = 877 pCi/g</u> <i>(Only contains U-238, Th-234, Pa-234m, U-235, and U-234)</i> Natural Thorium (in equi): <u>Th-232 Limit = 272 pCi/g</u> <i>(Th-232 * 11 decay progeny < 3,000 pCi/g)</i> <u>Use this space for SOF calculations:</u>		
4c.	Special Nuclear Material (Exempt per 10CFR 70.17)	Sum of all isotopes < 3,000 pCi/g		

For US Ecology Idaho use only:	
Which of the USEI WAC Tables apply to this profile? (Check all that apply)	Waste Type (check only one)
<input type="checkbox"/> Table C.1 - Unimportant Quantities of Source Material Uniformly Dispersed in Soil or other Media <input type="checkbox"/> Table C.2 - NORM other than Uranium and Thorium Uniformly Dispersed in Soil or Other Media <input type="checkbox"/> Table C.3 - Particle Accelerator Produced Radioactive Material (NARM) <input type="checkbox"/> Table C.4a - NRC Exempted Products, Devices, or Items <input type="checkbox"/> Table C.4b - Materials Specifically Exempted by the US NRC or an NRC Agreement State	<input type="checkbox"/> FUSRAP <input type="checkbox"/> RADIOACTIVE NON-FUSRAP <input type="checkbox"/> RADIOACTIVE EXEMPT ACCEL

NFFS IDW Debris- Manway, cement block, pipe and other debris

Item	Sample results - U238 (pCi/g)	Sediment weight (lbs)	Sediment grams/or manway pipe grams	U238 total pCi	Average U238 pCi/g
Manway and pipe-sediment	203	1000	454000	9.22E+07	
Manway and pipe	4.79	3000	1362000	6.52E+06	
totals			1816000	9.87E+07	5.43E+01

This average activity does not take into account trace contaminated plastic, wood or other material present within the load.







RTI Laboratories, Inc.

Client Ref.: NFSS -Niagra Falls Storage Site

Pace-Pittsburgh Project No. 30108456

Pace Analysis Services, Inc.-Pittsburgh

1638 Roseytown Road

Suites 2, 3, & 4

Greensburg, PA 15601

Phone Number: 724-850-5600 Fax Number: 724-850-5601

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Case Narrative for Pace Analytical Job Number 30108456

1/7/2014

Two (2) solid samples were received in good condition at Pace Analytical on 11/27/13. The samples were logged for radiochemical analyses under Pace Analytical Project Number 30108456. This project narrative is for the analysis of all project samples for Gamma spectroscopy (Ra-226), isotopic uranium (U-234, 235, 238) by alpha-spectroscopy, and isotopic thorium (Th-228, 230, 232) by alpha spectroscopy.

Sample Pre-treatment

A portion of each sample "as-received" was dried in an oven at 105C overnight. Dried samples were pulverized using a mortar and pestle then mixed thoroughly to homogenize. A portion of the dried, pulverized solid sample was split for gamma spectroscopy analysis. A portion of the remainder of the processed sample was used for all requested radiochemical analyses.

Gamma Spectroscopy by EPA 901.1 Modified

Samples were prepared in a sealed 8-ounce can geometry for non-destructive gamma spectroscopy analysis on a High-Purity Germanium Detector. The primary library used for sample gamma analysis was Pace's comprehensive default library. The MDC type used for primary analysis was the Regulatory Guide 4.16 calculation included as an option in the GammaVision V. 6.08 software program. This option was chosen as it most closely matches Pace's default MDC calculation used for all other radiochemistry analyses.

The samples were analyzed twice at the client's request. A preliminary analysis was performed prior to achieving secular equilibrium between Ra-226 and daughters. Results for Ra-226 were sent in a preliminary report. The initially reported Ra-226 values were reported as biased high due to an un-resolvable interference between Ra-226 and U-235 which was known to be present in each sample.

A second count of each sample was performed after secular equilibrium between Ra-226 and daughters was achieved. The reported Ra-226 values for the second count are based on measurement of gamma peaks for Bi-214 and Pb-214.

No anomalous events were noted during the preparation or analysis of the samples for gamma spectroscopy analysis.

All data quality objectives and quality control acceptance criteria were satisfied.

Case Narrative for Pace Analytical Job Number 30108456

Sequential Analysis of Isotopic Uranium and Thorium by HASL300 methods U-04 RC Modified and Th-01-RC Modified

A known quantity of U-232 and Th-234 tracers was added to each sample for analysis. Samples were dissolved using a combination of hydrochloric acid, nitric acid, and hydrofluoric acid. The acid mixture was evaporated to dryness on a hotplate and the fluoride was neutralized with boric acid in hydrochloric acid solution. The acid mixture was again evaporated to dryness. The sample residue was dissolved in concentrated nitric acid and evaporated to dryness.

Uranium and thorium were separated using a sequential column technique incorporating the use of Eichrom TEVA and U-TEVA resins.

Once purified and separated, uranium and thorium fractions were micro-precipitated with neodymium as a fluoride. For each element, the precipitate was collected on a 0.45 micron Eichrom Resolve filter, mounted, and counted in an alpha spectroscopy counting system.

Sample 30108456001 had fewer than Pace's default minimum of 400 tracer counts for isotopic uranium analysis. The count uncertainty of the sample tracer counts has been incorporated as a factor in the reported total uncertainty.

Additionally, sample 30108456001 had less than 30% tracer recovery for isotopic uranium analysis. Pace's QA program allows reporting of results for samples with tracer recoveries between 10% and 30% with Supervisor approval. Results are reported with Supervisor approval. Given the relatively high uranium content of the sample, the low recovery does not affect the reported results.

No further anomalous events were noted during the preparation or analysis of the samples for isotopic uranium/thorium analysis.

All data quality objectives and quality control acceptance criteria were satisfied.

General Comments

Please note that analytical results, as well as the CSU (Combined Standard Uncertainty – a.k.a. TPU) are reported at the 1.96 sigma level for all sample analyses except gamma-spectroscopy. Gamma results have been reported at the 2.0 sigma level.

No further anomalous events were noted during the preparation or analysis of the samples referenced in this project narrative.

Unless noted otherwise, all data quality objectives and quality control acceptance criteria were


Radiochemistry Manager or Designate

1/7/13
Date

December 30, 2013

[REDACTED]
RTI Laboratories, Inc.
31628 Glendale Street
Livonia, MI 48150

RE: Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

Dear [REDACTED]
Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This test is accredited under the laboratory's DoD ELAP accreditation issued by the ANSI-ASQ National Accreditation Board/ACCLASS. Refer to certificate and scope of accreditation ADE-1544.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

[REDACTED]

Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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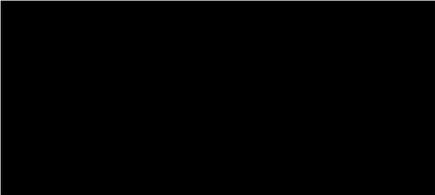
CERTIFICATIONS

Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACCLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification

Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q



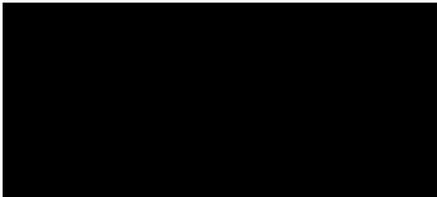
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SAMPLE SUMMARY

Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30108456001	MH06-SEWER-LINE-BTW-IN	Solid	11/26/13 13:30	11/27/13 11:00
30108456002	TRENCH-2-SEEP-T	Solid	11/25/13 12:30	11/27/13 11:00



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SAMPLE ANALYTE COUNT

Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30108456001	[REDACTED] MH00-SEWER-LINE-BTW-IN	EPA 901.1m	MAH	1
		EPA 901.1m	MAH	1
		HSL-300m	MBT	6
30108456002	TRENCH-2-SEEP-T	EPA 901.1m	MAH	1
		EPA 901.1m	MAH	1
		HSL-300m	MBT	6

[REDACTED]

[REDACTED]

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ANALYTICAL RESULTS

Project: NFSS-Niagra Falls Storage Site

Pace Project No.: 30108456

Sample: MH06-SEWER-LINE-BTW-
IN **Lab ID:** 30108456001 **Collected:** 11/26/13 13:30 **Received:** 11/27/13 11:00 **Matrix:** Solid

PWS: **Site ID:** **Sample Type:**

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	106.930 ± 14.023 (2.195)	pCi/g	12/11/13 18:32	13982-63-3	
Radium-226	EPA 901.1m	3.428 ± 0.469 (0.131)	pCi/g	12/23/13 16:13	13982-63-3	
Thorium-228	HSL-300m	0.310J ± 0.231 (0.371)	pCi/g	12/11/13 07:39	14274-82-9	N2
Thorium-230	HSL-300m	2.42 ± 0.623 (0.070)	pCi/g	12/11/13 07:39	14269-63-7	N2
Thorium-232	HSL-300m	0.148 ± 0.126 (0.128)	pCi/g	12/11/13 07:39	7440-29-1	N2
Uranium-234	HSL-300m	206 ± 47.2 (0.867)	pCi/g	12/12/13 06:53	13966-29-5	N2
Uranium-235	HSL-300m	10.8 ± 3.27 (0.570)	pCi/g	12/12/13 06:53	15117-96-1	N2
Uranium-238	HSL-300m	203 ± 46.4 (0.582)	pCi/g	12/12/13 06:53		N2

[REDACTED]

[REDACTED]

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ANALYTICAL RESULTS

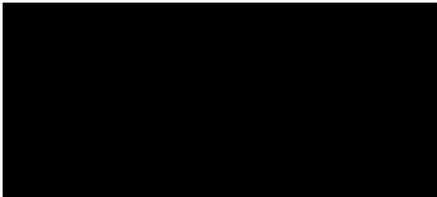
Project: NFSS-Niagra Falls Storage Site

Pace Project No.: 30108456

Sample: TRENCH-2-SEEP-T **Lab ID:** 30108456002 Collected: 11/25/13 12:30 Received: 11/27/13 11:00 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1m	6.801 ± 1.511 (1.227)	pCi/g	12/11/13 19:33	13982-63-3	
Radium-226	EPA 901.1m	1.898 ± 0.274 (0.117)	pCi/g	12/23/13 17:39	13982-63-3	
Thorium-228	HSL-300m	0.585 ± 0.328 (0.425)	pCi/g	12/11/13 07:39	14274-82-9	N2
Thorium-230	HSL-300m	1.41 ± 0.481 (0.217)	pCi/g	12/11/13 07:39	14269-63-7	N2
Thorium-232	HSL-300m	0.717 ± 0.326 (0.217)	pCi/g	12/11/13 07:39	7440-29-1	N2
Uranium-234	HSL-300m	4.59 ± 0.824 (0.135)	pCi/g	12/11/13 12:59	13966-29-5	N2
Uranium-235	HSL-300m	0.324 ± 0.146 (0.042)	pCi/g	12/11/13 12:59	15117-96-1	N2
Uranium-238	HSL-300m	4.79 ± 0.855 (0.114)	pCi/g	12/11/13 12:59		N2



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QUALITY CONTROL DATA

Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

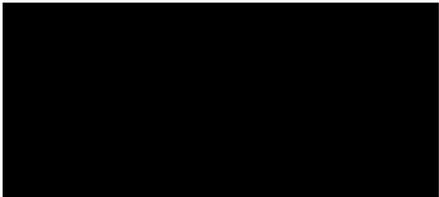
QC Batch: RADC/17971 Analysis Method: HSL-300m
QC Batch Method: HSL-300m Analysis Description: HSL300(AS) Actinides, DOD

Associated Lab Samples: 30108456001, 30108456002

METHOD BLANK: 665301 Matrix: Solid

Associated Lab Samples: 30108456001, 30108456002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Thorium-228	-0.023U ± 0.096 (0.269)	pCi/g	12/11/13 07:39	N2
Thorium-230	-0.026U ± 0.064 (0.147)	pCi/g	12/11/13 07:39	N2
Thorium-232	-0.004U ± 0.064 (0.088)	pCi/g	12/11/13 07:39	N2
Uranium-234	0.116B ± 0.076 (0.084)	pCi/g	12/11/13 12:59	N2
Uranium-235	0.010U ± 0.052 (0.074)	pCi/g	12/11/13 12:59	N2
Uranium-238	0.138B ± 0.082 (0.084)	pCi/g	12/11/13 12:59	N2



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QUALITY CONTROL DATA

Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

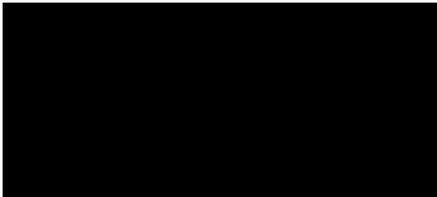
QC Batch: RADC/17994 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec Ingrowth

Associated Lab Samples: 30108456001, 30108456002

METHOD BLANK: 666813 Matrix: Solid

Associated Lab Samples: 30108456001, 30108456002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.110 ± 0.035 (0.061)	pCi/g	12/18/13 16:27	



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QUALITY CONTROL DATA

Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

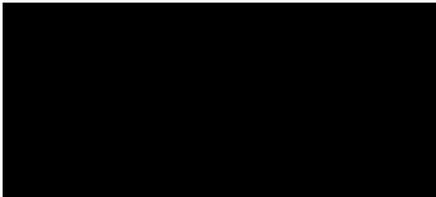
QC Batch: RADC/17941 Analysis Method: EPA 901.1m
QC Batch Method: EPA 901.1m Analysis Description: 901.1 Gamma Spec, DOD

Associated Lab Samples: 30108456001, 30108456002

METHOD BLANK: 664657 Matrix: Solid

Associated Lab Samples: 30108456001, 30108456002

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Radium-226	0.268 ± 0.438 (0.590)	pCi/g	12/10/13 09:07	



REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: NFSS-Niagra Falls Storage Site
Pace Project No.: 30108456

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

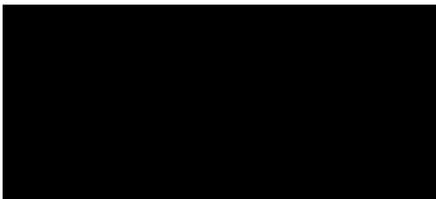
(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

N2 The lab does not hold TNI accreditation for this parameter.



REPORT OF LABORATORY ANALYSIS

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Project Number: 30108456

**Chain of Custody
And
Sample Receiving Conditions Upon Receipt
Form**



US Army Corps
of Engineers
Buffalo District

Radiological Chain of Custody Record

COC No.:

11262013A

COC#: MMDDYYYYA,B,etc.

Page 1 of 1

Date 2600013

Name: USACE - Buffalo District
Address: 1776 Niagara Street Buffalo, NY 14207
Phone Number: (716) 879- 4448
Project Manager: Mat Masset
Project Name: NFSS - Niagara Falls Storage Site

Requested Parameters

Radiological Laboratory
Pace Analytical Services
Suites 2, 3, & 4
1638 Roseytown Road
Greensburg, PA 15601

Carin Ferris 724-850-5615

30108456
OBSERVATIONS, COMMENTS
SPECIAL INSTRUCTIONS

Laboratory No.	Field Sample #	Site Type	Date	Time	Matrix	Total-Uran. (U-KPA)	Iso-Thorium	Iso-Uranium	Requested Parameters	Preserved? (Y/N)	Number of Containers for Sample
	TRENCH-2-B-F	NFSS	11-26-13	1220	W	X	X	X		Y	2
	TRENCH-2-B	NFSS	11-26-13	1220	W	X	X	X		Y	2
	PIPE-SANITARY-SEWER	NFSS	11-26-13	1340	W	X	X	X		Y	2
	PIPE-SANITARY-SEWER-F	NFSS	11-26-13	1340	W	X	X	X		Y	2
	MH 06-SEWER-LINE-BTW-IM	NFSS	11-26-13	1330	SED	X	X	X		N	1
	TRENCH-2-SEEP-T	NFSS	11-26-13	1230	S	X	X	X		N	1
		NFSS									
		NFSS									
		NFSS									
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		NFSS									

TAT-ASAP

001

002

2600013

1645

11-27-13

1100

Preservatives for above requested parameters:

- A Nitric Acid
- B
- C
- D

Minimum Method Detection Activity (MDA) for above requested parameters:

Parameter	Water (pCi/L)	Sediment (pCi/g)
1 Iso Uranium	0.5	0.5
2 Total-U	0.5 ug/L	-
3 Radium -226	1.0	0.2
4 Iso Thorium	0.5	0.5

Shipment Method:
FedEx

Activity

Additional Info:
USACE contract through RTI

RTI Delivery Order: 0017

RTI POC:

Comments

TAT-ASAP

Matrix:
W - Water SED - Sediment
S - Soil

NFSS Site Background

The Niagara Falls Storage Site (NFSS) is located at 1397 Pletcher Road in the Town of Lewiston. The NFSS represents a portion of the Lake Ontario Ordnance Works (LOOW), a former trinitrotoluene (TNT) production plant which shut down in 1943. Portions of the LOOW site were used by the USACE Manhattan Engineer District (MED) and U.S. Atomic Energy Commission (AEC) to store radioactive residues and other materials generated during the Manhattan Project beginning in 1944. Much of the radioactive residues sent to the NFSS originated from uranium processing activities conducted for MED and AEC at the Linde Air Products facility in Tonawanda, New York, the Mallinckrodt Chemical Works refinery in St. Louis, Missouri, and the Middlesex Sampling Plant in Middlesex, New Jersey.

Radiological constituents of concern at NFSS include isotopic uranium, isotopic thorium, and radium-226/228. Other constituents that occur on-site in lesser amounts include daughter products of the uranium series (Uranium-238 [U-238]) and, to some extent, the actinium series (Uranium-235 [U-235]). Some volatile organic compound (VOC) contaminants are also present at the site.

During previous remedial efforts, some of the radioactive wastes were removed from the site and the remaining wastes were consolidated into an engineered storage area referred to as the Interim Waste Containment Structure (IWCS). The investigation-derived waste identified in the EQ Waste Profile forms was from subsurface investigations designed to better delineate limits of residual uranium impacts at the site in support of a feasibility study.

HAZMAT



299573

DATE 690217
/ /

ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.com

FAX (716) 827-7217
(716) 827-7200

NYDEC #9A-278
EPA ID# NYD980769947

PICK UP DELIVERY

NAME **HAZMAT ENVIRONMENTAL GROUP, INC.**

STREET **60 COMMERCE DRIVE**

CITY **LACKAWANNA** STATE **NY** ZIP CODE **14218**

PHONE [REDACTED]

NAME **NIAGARA FALLS STORAGE SITE**

STREET **1397 PLETCHER ROAD**

CITY **LEWISTON** STATE **NY** ZIP CODE **14092**

CONTACT NAME _____ PHONE _____

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? **Y N** Explain damage below.

Pursuant to 6NYCRR 372.2 (b) (2) (ii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.

ADDITIONAL INFORMATION / EQUIPMENT DAMAGE
If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? **Y N** Explain damage below.

PURCHASE ORDER NO. _____ WORK ORDER NUMBER _____ MANIFEST NUMBER _____ H.M. NUMBER **299573**

LOAD NUMBER _____ TRACTOR **RTL7** TRAILER **UNKNOWN** ROLL OFF BOX _____ DRIVER **CABRERA** DRIVER **CABRERA, ANTHONY**

EQUIPMENT	MATERIAL DESCRIPTION/MANIFEST NUMBER	QUANTITY	Product unloading station and/or tank approved by:
EQUIPMENT TYPE _____ UNIT# DROPPED _____ UNIT# PICKED UP _____ CONDITION REPORT _____	Spot RB257 [REDACTED]		CONSIGNEE'S SIGNATURE _____ Compressor used YES _____ NO _____ In-Transit Heat used: YES _____ NO _____ Analysis/C of A: YES _____ NO _____

PICK UP	DELIVERY
PICK UP DATE _____	DRIVER CABRERA DAY #1 DATE 12/15/17
ARRIVAL TIME _____ AM/PM RELEASE TIME _____ AM/PM	ARRIVAL TIME 0715 PM RELEASE TIME 0800 PM
DAY #2 DATE _____	DAY #2 DATE _____ ARRIVAL TIME _____ AM/PM RELEASE TIME _____ AM/PM
ARRIVAL TIME _____ AM/PM RELEASE TIME _____ AM/PM	DAY #3 DATE _____ ARRIVAL TIME _____ AM/PM RELEASE TIME _____ AM/PM
TRAILER EMPTY UPON ARRIVAL <input type="checkbox"/> YES	TRAILER CLEAN AND EMPTY UPON DEPARTURE <input type="checkbox"/> YES <input type="checkbox"/> NO
(if not, explain below—)	(if not, explain below—)
DIP MEASUREMENT (Tankers Only) _____ INCHES	COMMENTS: (Explain all delays or discrepancies) _____
COMMENTS: (EXPLAIN ALL DELAYS) _____	_____
HAZMAT MATERIALS USED (ex. overpacks, etc.): <input type="checkbox"/> YES <input type="checkbox"/> NO	IF YES EXPLAIN: _____
IF YES EXPLAIN: _____	IF YES EXPLAIN: _____
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.	I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS _____

SHIPPER'S SIGNATURE _____

Date _____

CONSIGNEE'S SIGNATURE _____

Date **12-15-17**

BILLING

HAZMAT

ENVIRONMENTAL GROUP, INC
60 Commerce Drive, Buffalo, NY 14218
www.hazmatinc.com

FAX (716) 827-7217
(716) 827-7200



300674

NYDEC #9A-278
EPA ID# NYD980769947

DATE 688929
/ /

PICK UP			DELIVERY		
NIGARA FALLS STORAGE SITE			US ECOLOGY		
SHIPPER	NAME	1397 FLETCHER ROAD	CONSIGNEE	NAME	20400 Lenley Road
	STREET			STREET	
	CITY	LEWISTON NY 14092		CITY	GRAND VIEW ID 83624
	STATE			STATE	
	ZIP CODE			ZIP CODE	
CONTACT NAME		PHONE	CONTACT NAME		PHONE
SCHEDULED TIME					
ADDITIONAL INFORMATION / EQUIPMENT DAMAGE If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Explain damage below.			Pursuant to 6NYCRR 372.2 (b) (2) (iii) HazMat certifies that it is Authorized to deliver this shipment of manifested waste to the TSDF listed on this Bill of Lading. Shipment valuation limits apply from HazMat Rules Publication 101, Item 848.		
ADDITIONAL INFORMATION / EQUIPMENT DAMAGE If damaged at pickup site, did you send in Equipment Damage Report (EDR) via Qualcomm? <input type="checkbox"/> Y <input type="checkbox"/> N Explain damage below.			ADDITIONAL INFORMATION / EQUIPMENT DAMAGE If damaged at delivery site, did you send in Equipment Damage Report (EDR) via Qualcomm? <input type="checkbox"/> Y <input type="checkbox"/> N Explain damage below.		

PURCHASE ORDER NO. 5646	WORK ORDER NUMBER	MANIFEST NUMBER 56461	H.M. NUMBER 300674
LOAD NUMBER	TRACTOR 1217	TRAILER UNKNOWN	ROLL OFF BOX
		DRIVER NUMBER CATHART	DRIVER'S NAME CATHART ANTHONY

EQUIPMENT	MATERIAL DESCRIPTION/MANIFEST NUMBER	QUANTITY	Product unloading station and/or tank approved by:
EQUIPMENT TYPE UNIT# DROPPED UNIT# PICKED UP CONDITION REPORT	Non HAZ SOLID WASTE Attempt Box Leaking	11000	CONSIGNEE'S SIGNATURE Compressor used: YES <input type="checkbox"/> NO <input type="checkbox"/> In-Transit Heat used: YES <input type="checkbox"/> NO <input type="checkbox"/> Analysis/C of A: YES <input type="checkbox"/> NO <input type="checkbox"/>

PICK UP	DELIVERY
PICK UP DATE 12/19/14	DRIVER
ARRIVAL TIME 0715 AM	DAY #1 DATE
RELEASE TIME 830 AM	ARRIVAL TIME
DAY #2 DATE	AM PM
ARRIVAL TIME	RELEASE TIME
AM PM	AM PM
RELEASE TIME	AM PM
AM PM	AM PM
TRAILER EMPTY UPON ARRIVAL <input type="checkbox"/> YES	TRAILER CLEAN AND EMPTY UPON DEPARTURE <input type="checkbox"/> YES <input type="checkbox"/> NO
(if not, explain below—)	(if not, explain below—)
DIP MEASUREMENT (Tankers Only) _____ INCHES	COMMENTS: (Explain all delays or discrepancies)
COMMENTS: (EXPLAIN ALL DELAYS)	
LEFT ON SITE	
LEAKING	
HAZMAT MATERIALS USED (ex. overpacks, etc.) <input type="checkbox"/> YES <input type="checkbox"/> NO	IF YES EXPLAIN:
IF YES EXPLAIN:	I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS TRUE AND COMPLETE.
I, THE UNDERSIGNED, CERTIFY THAT THE ABOVE INFORMATION IS	
	CONSIGNEE'S SIGNATURE
12/19/14	Date
Date	Date

BILLING



10348

15010209016

DID: 28325

NON-HAZARDOUS WASTE MANIFEST 1. Generator ID Number: NY7890108973 2. Page 1 of 1 3. Emergency Response Phone: 56461 4. Waste Tracking Number: 56461

5. Generator's Name and Mailing Address: US ARMY CORP OF ENGINEERS, 1776 NIAGARA STREET, BUFFALO, NY 14207
 Generator's Site Address (if different than mailing address): NIAGARA FALLS STORAGE SITE, 1397 PLETCHER ROAD, LEWISTON, NY
 Generator's Phone: 716-879-4289 ATTN: [REDACTED]

6. Transporter 1 Company Name: HAZMAT ENVIRONMENTAL GROUP INC. U.S. EPA ID Number: NYD980769947

7. Transporter 2 Company Name: U.S. EPA ID Number:

8. Designated Facility Name and Site Address: US ECOLOGY OF IDAHO, 20400 LEMLEY ROAD, GRAND VIEW, ID 83624
 Facility's Phone: 800-274-1516 U.S. EPA ID Number: IDD073114654

200895

9. Waste Shipping Name and Description	10. Containers		11. Total Quantity	12. Unit Wt/Vol
	No.	Type		
1. NON-REGULATED MATERIAL (NFSS IDW DEBRIS/SOIL)	1	CM	EST 12000	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information: 1.) NFSS IDW DEBRIS/SOIL (34476-0) WTS ORDER # 56461

RB257

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
 Month Day Year: 12 29 14

15. International Shipments: Import to U.S. Export from U.S. Port of entry/exit: Date leaving U.S.:

16. Transporter Signature (for exports only): [REDACTED] Month Day Year: 12 29 14

17. Discrepancy: 17a. Discrepancy Indication: Quantity Type Residue Partial Rejection Full Rejection
 Transporter 2 (Printed/Typed Name): [REDACTED] Signature: [REDACTED] Month Day Year: [REDACTED]

17b. Alternate Facility (or Generator): U.S. EPA ID Number:

17c. Signature of Alternate Facility (or Generator): Month Day Year:

17c. Signature of Alternate Facility (or Generator): Month Day Year:

Month Day Year: 1 2 15

TRANSPORTER #1

GENERATOR
INTL
TRAN
DESIGNATED FACILITY