

IGNITABILITY

Method SW1010 Revision A

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Tidewater, Inc.
Client Project ID: Great Kills Park N303-540
Work Order Number: 1407593
Reporting Basis: As Received
Prep Method: NONE
Analyst: Brendon Howard

Final Volume: 1 CUP
Matrix: SOIL
Result Units: deg C

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
GKP-SR-IDW1	1407593-1	07/28/2014	08/15/2014	08/15/2014	N/A	1	96	96	U	1 CUP
GKP-SR-IDW2	1407593-2	07/28/2014	08/15/2014	08/15/2014	N/A	1	96	96	U	1 CUP
GKP-SR-IDW3	1407593-3	07/28/2014	08/15/2014	08/15/2014	N/A	1	96	96	U	1 CUP
GKP-SR-IDW4	1407593-4	07/28/2014	08/15/2014	08/15/2014	N/A	1	96	96	U	1 CUP
GKP-SR-IDW5	1407593-5	07/28/2014	08/15/2014	08/15/2014	N/A	1	96	96	U	1 CUP

Comments:

ND or U = Flashpoint was above 96.5 degrees celsius.

Data Package ID: EX1407593-1

REACTIVE CYANIDE

Method SW846_7.3.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Tidewater, Inc.
Client Project ID: Great Kills Park N303-540
Work Order Number: 1407593
Reporting Basis: As Received
Prep Method: METHOD
Analyst: Kerry M. Petrie

Final Volume: 100 ml
Matrix: SOIL
Result Units: MG/KG

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
GKP-SR-IDW1	1407593-1	07/28/2014	08/06/2014	08/08/2014	N/A	1	0.1	0.1	U	10 g
GKP-SR-IDW2	1407593-2	07/28/2014	08/06/2014	08/08/2014	N/A	1	0.1	0.1	U	10 g
GKP-SR-IDW3	1407593-3	07/28/2014	08/06/2014	08/08/2014	N/A	1	0.097	0.097	U	10.3 g
GKP-SR-IDW4	1407593-4	07/28/2014	08/06/2014	08/08/2014	N/A	1	0.099	0.099	U	10.1 g
GKP-SR-IDW5	1407593-5	07/28/2014	08/06/2014	08/08/2014	N/A	1	0.097	0.097	U	10.3 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *cn1407593-1*

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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REACTIVE SULFIDE

Method SW846_7.3.2

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Tidewater, Inc.
Client Project ID: Great Kills Park N303-540
Work Order Number: 1407593
Reporting Basis: As Received
Prep Method: METHOD
Analyst: Kerry M. Petrie

Final Volume: 100 ml
Matrix: SOIL
Result Units: MG/KG

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
GKP-SR-IDW1	1407593-1	07/28/2014	08/06/2014	08/08/2014	N/A	1	50	50	U	10 g
GKP-SR-IDW2	1407593-2	07/28/2014	08/06/2014	08/08/2014	N/A	1	50	50	U	10 g
GKP-SR-IDW3	1407593-3	07/28/2014	08/06/2014	08/08/2014	N/A	1	50	50	U	10.3 g
GKP-SR-IDW4	1407593-4	07/28/2014	08/06/2014	08/08/2014	N/A	1	50	50	U	10.1 g
GKP-SR-IDW5	1407593-5	07/28/2014	08/06/2014	08/08/2014	N/A	1	50	50	U	10.3 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: s1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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Solid pH in water @25 Degrees Celsius

Method SW9045 Revision D

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Tidewater, Inc.
Client Project ID: Great Kills Park N303-540
Work Order Number: 1407593
Reporting Basis: As Received
Prep Method: METHOD
Analyst: Kerry M. Petrie
Final Volume: 20 ml
Matrix: SOIL
Result Units: pH

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
GKP-SR-IDW1	1407593-1	07/28/2014	08/01/2014	08/01/2014	N/A	1	6.42	0.1		20 g
GKP-SR-IDW2	1407593-2	07/28/2014	08/01/2014	08/01/2014	N/A	1	6.01	0.1		20 g
GKP-SR-IDW3	1407593-3	07/28/2014	08/01/2014	08/01/2014	N/A	1	5.87	0.1		20 g
GKP-SR-IDW4	1407593-4	07/28/2014	08/01/2014	08/01/2014	N/A	1	6.83	0.1		20 g
GKP-SR-IDW5	1407593-5	07/28/2014	08/01/2014	08/01/2014	N/A	1	6.75	0.1		20 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *pH1407593-1*

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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TCLP MERCURY
Method SW7470 Revision A
Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Tidewater, Inc.
Client Project ID: Great Kills Park N303-540
Work Order Number: 1407593
Reporting Basis: As Received
Prep Method: METHOD
Analyst: Brent A. Stanfield

Final Volume: 10 g
Matrix: LEACHATE
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	RptLimit/ LOQ	Flag	Sample Aliquot
GKP-SR-IDW1	1407593-7	07/28/2014	08/07/2014	08/07/2014	N/A	1	0.002	0.002	U	1 g
GKP-SR-IDW2	1407593-8	07/28/2014	08/07/2014	08/07/2014	N/A	1	0.002	0.002	U	1 g
GKP-SR-IDW3	1407593-9	07/28/2014	08/07/2014	08/07/2014	N/A	1	0.002	0.002	U	1 g
GKP-SR-IDW4	1407593-10	07/28/2014	08/07/2014	08/07/2014	N/A	1	0.002	0.002	U	1 g
GKP-SR-IDW5	1407593-11	07/28/2014	08/07/2014	08/07/2014	N/A	1	0.002	0.002	U	1 g

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: hg1407593-1

Date Printed: Thursday, August 14, 2014

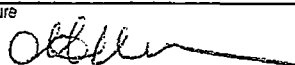
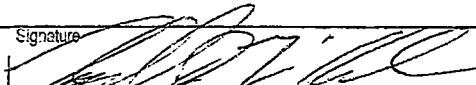
ALS Environmental -- FC

LIMS Version: 6.721

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Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD-98-279-4877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 006459253 FLE		
5. Generator's Name and Mailing Address National Park Service, Gateway National Recreation Area Great Kills Park 201 New York Avenue 210 NEW YORK AVENUE Staten Island, NY 10305 Generator's Phone: (718) 354-4609				Generator's Site Address (if different than mailing address)			
6. Transporter 1 Company Name Triad Transport, Inc.				U.S. EPA ID Number OKD-98-158-8791			
7. Transporter 2 Company Name				U.S. EPA ID Number			
8. Designated Facility Name and Site Address US Ecology 20400 Lemley Road Grand View, ID 83624 Facility's Phone: (800) 274-1516 x2309				U.S. EPA ID Number IDD 07-311-4654			
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No. Type		11. Total Quantity	12. Unit V/L/Vol.	13. Waste Codes
	X	1. Waste, UN2912, Radioactive material, low specific activity (LSA I), 7	4	DM	816	K	D008
		2.					
		3.					
		4.					
14. Special Handling Instructions and Additional Information <div style="text-align: center;">Manifest # 16544-A</div> Emergency Contact: Chemtrec CGN-19279							
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/Officer's Printed/Typed Name ON BEHALF OF NPS CHRISTOPHER M. HALLAM				Signature 		Month Day Year 01 07 15	
INTL	16. 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.: _____						
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name TODD M. CULLOCH Signature  Month Day Year 1 7 15 Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____						
TRANSPORTER	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: _____						
DESIGNATED FACILITY	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							

US Ecology, Inc. Land Disposal Restriction Form

USEcology, Inc.

National Park Service, Gateway National Recreation Area
 GENERATOR: Great Kills Park EPA I.D. NUMBER: NYD982794877
 WASTE STREAM or PROFILE NUMBER: _____ MANIFEST DOC. NO. _____ LINE NO. _____
 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: _____

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. SIGNED ON BEHALF OF NATIONAL PARK SERVICE

Authorized Signature

C. J. [Signature]Title USACE HEALTH PHYSICIST Date 07/11/11

UHC list from 40 CFR Part 268.48 available upon request

POTENTIAL HAZARDS

HEALTH

- Radiation presents minimal risk to transport workers, emergency response personnel and the public during transportation accidents. Packaging durability increases as potential hazard of radioactive content increases.
- Undamaged packages are safe. Contents of damaged packages may cause higher external radiation exposure, or both external and internal radiation exposure if contents are released.
- Low radiation hazard when material is inside container. If material is released from package or bulk container, hazard will vary from low to moderate. Level of hazard will depend on the type and amount of radioactivity, the kind of material it is in, and/or the surfaces it is on.
- Some material may be released from packages during accidents of moderate severity but risks to people are not great.
- Released radioactive materials or contaminated objects usually will be visible if packaging fails.
- Some exclusive use shipments of bulk and packaged materials will not have "RADIOACTIVE" labels. Placards, markings and shipping papers provide identification.
- Some packages may have a "RADIOACTIVE" label and a second hazard label. The second hazard is usually greater than the radiation hazard; so follow this GUIDE as well as the response GUIDE for the second hazard class label.
- Some radioactive materials cannot be detected by commonly available instruments.
- Runoff from control of cargo fire may cause low-level pollution.

FIRE OR EXPLOSION

- Some of these materials may burn, but most do not ignite readily.
- Uranium and Thorium metal cuttings may ignite spontaneously if exposed to air (see GUIDE 136).
- Nitrates are oxidizers and may ignite other combustibles (see GUIDE 141).

PUBLIC SAFETY

- **CALL EMERGENCY RESPONSE Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.**
- **Priorities for rescue, life-saving, first aid, fire control and other hazards are higher than the priority for measuring radiation levels.**
- Radiation Authority must be notified of accident conditions. Radiation Authority is usually responsible for decisions about radiological consequences and closure of emergencies.
- As an immediate precautionary measure, isolate spill or leak area for at least 25 meters (75 feet) in all directions.
- Stay upwind.
- Keep unauthorized personnel away.
- Detain or isolate uninjured persons or equipment suspected to be contaminated; delay decontamination and cleanup until instructions are received from Radiation Authority.

PROTECTIVE CLOTHING

- Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

EVACUATION

Large Spill

- Consider initial downwind evacuation for at least 100 meters (330 feet).

Fire

- When a large quantity of this material is involved in a major fire, consider an initial evacuation distance of 300 meters (1000 feet) in all directions.

EMERGENCY RESPONSE

FIRE

- Presence of radioactive material will not influence the fire control processes and should not influence selection of techniques.
- Move containers from fire area if you can do it without risk.
- Do not move damaged packages; move undamaged packages out of fire zone.

Small Fire

- Dry chemical, CO₂, water spray or regular foam.

Large Fire

- Water spray, fog (flooding amounts).
- Dike fire-control water for later disposal.

SPILL OR LEAK

- Do not touch damaged packages or spilled material.
- Cover liquid spill with sand, earth or other non-combustible absorbent material.
- Dike to collect large liquid spills.
- Cover powder spill with plastic sheet or tarp to minimize spreading.

FIRST AID

- Call 911 or emergency medical service.
- Medical problems take priority over radiological concerns.
- Use first aid treatment according to the nature of the injury.
- Do not delay care and transport of a seriously injured person.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- In case of contact with substance, wipe from skin immediately; flush skin or eyes with running water for at least 20 minutes.
- Injured persons contaminated by contact with released material are not a serious hazard to health care personnel, equipment or facilities.
- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Instructions to Driver

Maintenance of Exclusive Use Shipment Controls

Consignor (Generator-Shipper):

National Park Service, Gateway National Recreation Area
Great Kills Park

~~201 New York Ave.~~ 210 NEW YORK AVENUE
Staten Island, NY 10305

Tel: (718)354-4609

Signature: X [Signature] SIGNED ON BEHALF OF NPS
USACE HEALTH PHYSICIST

Consignee:

US Ecology

20400 Lemley Rd.

Grand View, ID 83624

Tel: (208)834-2919

Shipment ID: RES#778
USE # 5

RSO, Inc.

5204 Minnick Rd.

Laurel, MD 20707

Tel: (301)953-2482

Shipment ID: 16544-B

This vehicle has been cosigned by National Park Service for the exclusive use shipment of radioactive materials.
For maintenance of exclusive use the following controls must be followed.

1. The single consignor has exclusive use of the transport vehicle.
2. All initial, intermediate, and final unloading is carried out by or under the direction of the consignor.
3. No other consignor may be allowed to load any material on the transport vehicle.
4. In case of tractor trailer combinations the carrier/driver must not change power units to the fifth wheel position without the direct permission of the consignor.
5. Upon arrival of the destination all unloading must be carried out or under the direction of the consignee.
6. Shipments containing packages marked Radioactive LSA must be placarded.
7. These instructions are provided by the shipper to the driver and must be included in the shipping papers.

I HAVE READ AND UNDERSTAND THE ABOVE INSTRUCTIONS

Driver Signature: X [Signature] *Driver Signature: [Signature]
Carrier: Triad Transport, Inc. Truck No. 1339 Trailer No. 32414 Truck No. 1413
Date: 1-7-15 Date: 1-9-15

*Note: Driver and truck changed in Columbus OH.

Certification is hereby given that this vehicle was surveyed for contamination and exposure rates and found to be within the limits specified in 49CFR 173.443 (Contamination Control) and 173.441 (Radiation Level Limitations).

RSO, Inc.

Technician Signature: [Signature]

Date: 1-7-15

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 540 (01-2014)		U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY National Park Service, Gateway National Recreation Area, Great Kills Park 201 New York Avenue Staten Island, NY 10305		SHIPPER I.D. NUMBER WS#35107-0 / 35104-0 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		7. NRC FORM 540 AND 540A NRC FORM 541 AND 541A NRC FORM 542 AND 542A ADDITIONAL INFORMATION		8. MANIFEST NUMBER (Use this number on all continuation pages) 16544	
1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 (Include Area Code)				USER PERMIT NUMBER NA		SHIPMENT NUMBER RSO#778 USE#5		TELEPHONE NUMBER (Include Area Code) (718)354-4609		9. CONSIGNEE - Name and Facility Address US Ecology 20400 Lemley Road Grand View, ID 83624	
ORGANIZATION Chemtec CCN-19279				CONTACT Kathleen Cuzzolino		EPA I.D. NUMBER OKD-98-168-8791		SIGNATURE - Authorized consignee acknowledging waste receipt		CCCONTACT Tino Cereceres TELEPHONE NUMBER (Include Area Code) (800)274-1516 x2309	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 20		6. CARRIER - Name and Address Triad Transport, Inc. P.O. Box 818 McAlester, OK 74502		SHIPPING DATE 01/07/2015		10. CERTIFICATION This is to certify that the herein-named materials are acceptable for disposal, are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the Commission.			
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number		EPA MANIFEST NUMBER		CONTACT Dick Dune		TELEPHONE NUMBER (Include Area Code) (330)609-8044		SIGNATURE - Authorized consignee acknowledging waste receipt 1-7-15		DATE	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIOISOTOPES		16. TOTAL PACKAGE ACTIVITY (MBq)	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		6.5194E+00	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		6.5194E+00	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.1100E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		1.3320E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-226		2.8120E-01	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum		NA		NA		Solid Soil with debris		Ra-			

NRC FORM 540A (01-2014)										U.S. NUCLEAR REGULATORY COMMISSION		8. MANIFEST NUMBER (Use this number on all continuation pages) 16544	
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER (CONTINUATION)										Page 2 of 3 Pages			
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES			16. TOTAL PACKAGE ACTIVITY IN SI UNITS	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			3.7370E-01	LSA-I	500 LBS; 7.5 FT3	GKP-SR-007 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			3.3670E-01	LSA-I	450 LBS; 7.5 FT3	GKP-SR-008 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			3.3670E-01	LSA-I	450 LBS; 7.5 FT3	GKP-SR-009 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			5.5500E-02	LSA-I	450 LBS; 7.5 FT3	GKP-SR-011 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			5.9200E-02	LSA-I	475 LBS; 7.5 FT3	GKP-SR-012 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			5.5500E-02	LSA-I	450 LBS; 7.5 FT3	GKP-SR-013 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			5.5500E-02	LSA-I	450 LBS; 7.5 FT3	GKP-SR-014 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			1.1100E-01	LSA-I	375 LBS; 7.5 FT3	GKP-SR-015 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			1.3320E-01	LSA-I	450 LBS; 7.5 FT3	GKP-SR-016 / WS#35107-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			6.1087E+00	LSA-I	375 LBS; 7.5 FT3	GKP-SR-020 / WS#35104-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			6.5194E+00	LSA-I	400 LBS; 7.5 FT3	GKP-SR-021 / WS#35104-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			6.1087E+00	LSA-I	375 LBS; 7.5 FT3	GKP-SR-022 / WS#35104-0			
UN 2912, Radioactive material, low specific activity (LSA-I), 7 , Drum	NA	NA	Solid Soil with debris	Ra-226			5.7017E+00	LSA-I	350 LBS; 7.5 FT3	GKP-SR-023 / WS#35104-0			

APPROVED BY QMB: NO. 3150-0164
EXPIRES: 12/31/2016

Estimated burden per response to comply with this Information Collection Request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (7-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 540A
(01-2014)



UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST
SHIPPING PAPER (CONTINUATION)

U.S. NUCLEAR REGULATORY COMMISSION

8. MANIFEST NUMBER
(Use this number on all continuation pages)
16544

Page 3 of 3 Pages

[illegible]

NRC FORM 540A (1-2014)

NRC FORM 541 (01-2014) U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste										1. MANIFEST TOTALS							2. MANIFEST NUMBER		
										NUMBER OF PACKAGES/ DISPOSAL CONTAINERS		NET WASTE VOLUME (m ³)	NET WASTE WEIGHT (kg)	SPECIAL NUCLEAR MATERIAL (grams)				16544	
										20	4.2480	3753.4776	U-233	U-235	Pu	Total			
										ALL NUCLIDES				TRITIUM	C-14	Tc-99	I-129	SOURCE (kg)	
										4.5332E+01				NP	NP	NP	NP	NA	
DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER									
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m ³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL (uSv/hr) (mSv/hr)	10. SURFACE CONTAMINATION (MBq/100 cm ²)		11. WASTE DESCRIPTION (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m ³)	13. SORBENT SOLIDIFICATION, STABILIZATION, MEDIA (See Note 3)	14. CHEMICAL FORM/ CHELATING AGENT	15. WEIGHT % CHELATING AGENT IF > 0.1%	16. RADIOLOGICAL DESCRIPTION		17. WASTE CLASSIFICATION AS-CLASS A Stable AU-Class A Unstable B-Class B C-Class C					
GKP-SR-001 / WS#35107-0/GKP	4	0.2124	170.0972	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	1.1100E-01	AU					
												Total	1.1100E-01 MBq						
GKP-SR-002 / WS#35104-0/GKP	4	0.2124	181.4370	1.0000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	6.5194E+00	AU					
												Total	6.5194E+00						
GKP-SR-003 / WS#35104-0/GKP	4	0.2124	181.4370	1.0000E+01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	6.5194E+00	AU					
												Total	6.5194E+00						

Note 1: Container Description Codes. For containers/ waste requiring disposal in approved structural overpacks the numerical code must be followed by "OP."

- | | |
|-------------------------------|--------------------------------|
| 1. Wooden Box or Crate | 9. Demineralizer |
| 2. Metal Box | 10. Gas Cylinder |
| 3. Plastic Drum or Pail | 11. Bulk Unpackaged Waste |
| 4. Metal Drum or Pail | 12. Unpackaged Components |
| 5. Metal Tank or Liner | 13. High Integrity Container |
| 6. Concrete Tank or Liner | 19. Other. Describe in Item 6, |
| 7. Polyethylene Tank or Liner | or additional page |
| 8. Fiberglass Tank or Liner | |

Note 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

- | | | |
|----------------------------|----------------------------------|-------------------------------------------------|
| 20. Charcoal | 29. Demolition Rubble | 38. Evaporator Bottoms/Sludges/Concentrates |
| 21. Incinerator Ash | 30. Cation Ion-exchange Media | 39. Compactible Trash |
| 22. Soil | 31. Anion Ion-exchange Media | 40. Noncompactible Trash |
| 23. Gas | 32. Mixed Bed Ion-exchange Media | 41. Animal Carcass |
| 24. Oil | 33. Contaminated Equipment | 42. Biological Material (except animal carcass) |
| 25. Aqueous Liquid | 34. Organic Liquid (except oil) | 43. Activated Material |
| 26. Filter Media | 35. Glassware or Labware | 59. Other. Describe in item 11, |
| 27. Mechanical Filter | 36. Sealed Source/Device | or additional page |
| 28. EPA or State Hazardous | 37. Paint or Plating | |

Note 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "S." For all solidification media, the vendor (manufacturer) and brand name must also be identified in item 13. Code 100=NONE REQUIRED.

Sorption

- | | | |
|--------------------------|------------------|--------------------|
| 60. Speedi Dri | 64. Safe T Sorb | 69. Chemsil 30 |
| 61. Celotom | 65. Safe N Dri | 70. Chemsil 50 |
| 62. Floor Dry/ Superfine | 66. Florco | 71. Chemsil 3030 |
| 63. Hi Dri | 67. Florco X | 72. Dicapert HP200 |
| | 68. Solid A Sorb | 73. Dicapert HP500 |

Solidification

- | | | | |
|-----------------|----------------------------------------------------|------------------------------|----------------------------------------------------|
| 74. Petroset | 79. Other. Describe in item 13, or additional page | 90. Cement | 94. Vinyl Ester Styrene |
| 75. Petroset II | | 91. Concrete (encapsulation) | 99. Other. Describe in item 13, or additional page |
| 76. Aquaset | | 92. Bitumen | |
| 77. Aquaset II | | 93. Vinyl Chloride | 100. None Required |

UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST

U.S. NUCLEAR REGULATORY COMMISSION

2. MANIFEST NUMBER
16544

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

3. PAGE 2 OF 5 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER					16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m ³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL	10. SURFACE CONTAMINATION (MBq/100 cm ²)		11. WASTE DESCRIPTION (See Note 2)	12. PHYSICAL DESCRIPTION		13. SORBENT SOLIDIFICATION, STABILIZATION, MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION		
				<input checked="" type="checkbox"/> (uSv/hr) (mSv/hr)	ALPHA	BETA-GAMMA		APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m ³)	WEIGHT % CHELATING AGENT IF > 0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
GKP-SR-004 / WS#35107-0/GKP	4	0.2124	170.0972	9.6000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	1.1100E-01	AU	
												Total	1.1100E-01 MBq		
GKP-SR-005 / WS#35107-0/GKP	4	0.2124	204.1166	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	1.3320E-01	AU	
												Total	1.3320E-01 MBq		
GKP-SR-006 / WS#35107-0/GKP	4	0.2124	170.0972	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	2.8120E-01	AU	
												Total	2.8120E-01 MBq		
GKP-SR-007 / WS#35107-0/GKP	4	0.2124	226.7962	4.5000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	3.7370E-01	AU	
												Total	3.7370E-01 MBq		
GKP-SR-008 / WS#35107-0/GKP	4	0.2124	204.1166	5.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226	3.3670E-01	AU	

UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST

U.S. NUCLEAR REGULATORY COMMISSION

2. MANIFEST NUMBER
16544

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

3. PAGE 3 OF 5 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER				16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C	
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m ³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL <input checked="" type="checkbox"/> (uSv/hr) <input type="checkbox"/> (mSv/hr)	10. SURFACE CONTAMINATION (MBq/100 cm ²)		11. WASTE DESCRIPTION (See Note 2)	12. PHYSICAL DESCRIPTION		13. SORBENT SOLIDIFICATION STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION	WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT		
					ALPHA	BETA-GAMMA		APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m ³)							
													Total	3.3670E-01 MBq	
GKP-SR-009 / WS#35107-Q/GKP	4	0.2124	204.1166	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP		Ra-226	3.3670E-01	AU
													Total	3.3670E-01 MBq	
GKP-SR-011 / WS#35107-Q/GKP	4	0.2124	204.1166	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP		Ra-226	5.5500E-02	AU
													Total	5.5500E-02 MBq	
GKP-SR-012 / WS#35107-Q/GKP	4	0.2124	215.4564	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP		Ra-226	5.9200E-02	AU
													Total	5.9200E-02 MBq	
GKP-SR-013 / WS#35107-Q/GKP	4	0.2124	204.1166	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP		Ra-226	5.5500E-02	AU
													Total	5.5500E-02 MBq	

UNIFORM LOW-LEVEL RADIOACTIVE
WASTE MANIFEST

U.S. NUCLEAR REGULATORY COMMISSION

2. MANIFEST NUMBER
16544

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

3. PAGE 4 OF 5 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER					16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m ³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL <input checked="" type="checkbox"/> (uSv/hr) (mSv/hr)	10. SURFACE CONTAMINATION (MBq/100 cm ²)		11. WASTE DESCRIPTION (See Note 2)	12. PHYSICAL DESCRIPTION		13. SORBENT SOLIDIFICATION STABILIZATION, MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION		15. RADIOLOGICAL DESCRIPTION		
					ALPHA	BETA-GAMMA		APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m ³)	WEIGHT % CHELATING AGENT IF > 0.1%		INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL, OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT				
GKP-SR-014 / WS#35107-Q/GKP	4	0.2124	204.1166	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226 5.5500E-02	AU		
												Total 5.5500E-02 MBq			
GKP-SR-015 / WS#35107-Q/GKP	4	0.2124	170.0972	2.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226 1.1100E-01	AU		
												Total 1.1100E-01 MBq			
GKP-SR-016 / WS#35107-Q/GKP	4	0.2124	204.1166	8.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226 1.3320E-01	AU		
												Total 1.3320E-01 MBq			
GKP-SR-020 / WS#35104-Q/GKP	4	0.2124	170.0972	1.5000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226 6.1087E+00	AU		
												Total 6.1087E+00			
GKP-SR-021 / WS#35104-Q/GKP	4	0.2124	181.4370	9.5000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with debris/NP	NP	Ra-226 6.5194E+00	AU		



UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

U.S. NUCLEAR REGULATORY COMMISSION

2. MANIFEST NUMBER

16544

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

3. PAGE 5 OF 5 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER					16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m ³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL <input checked="" type="checkbox"/> (uSv/hr) (mSv/hr)	10. SURFACE CONTAMINATION (MBq/100 cm ²)		11. WASTE DESCRIPTION (See Note 2)	12. PHYSICAL DESCRIPTION		13. SORBENT SOLIDIFICATION STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT	WEIGHT % CHELATING AGENT IF > 0.1%	15. RADIOLOGICAL DESCRIPTION INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT		
					ALPHA	BETA-GAMMA		APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m ³)							
													Total	6.5194E+00	
GKP-SR-022 / WS#35104-0/GKP	4	0.2124	170.0972	2.0000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA		Soil with debris/NP	NP	Ra-226	6.1087E+00	AU
													Total	6.1087E+00	
GKP-SR-023 / WS#35104-0/GKP	4	0.2124	158.7673	8.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA		Soil with debris/NP	NP	Ra-226	5.7017E+00	AU
													Total	5.7017E+00	
GKP-SR-024 / WS#35104-0/GKP	4	0.2124	158.7573	4.0000E-01	<1.6700E-06	<1.6700E-06	22	0.2124	NA		Soil with debris/NP	NP	Ra-226	5.7017E+00	AU
													Total	5.7017E+00	
Shipment Totals		4.2480	3753.4776											4.5332E+01	

NRC FORM 542 (01-2014)		U.S. NUCLEAR REGULATORY COMMISSION		1. WASTE COLLECTOR/PROCESSOR				2. MANIFEST NUMBER			
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST		MANIFEST INDEX AND REGIONAL COMPACT TABULATION		NAME		SHIPPER USE ONLY		16544		3. PAGE 1 OF 1 PAGE(S)	
				National Park Service, Gateway National Recreation							
				IDENTIFICATION NUMBER GKP							
List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators.		SHIPPING DATE		1/7/2015							
4. GENERATOR IDENTIFICATION NUMBER	5. GENERATOR NAME PERMIT NUMBER (IF APPLICABLE) AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME (m ³)	8. MANIFEST NUMBER(S) UNDER WHICH WASTE (OR MATERIAL) RECEIVED AND DATE OF RECEIPT	9. WASTE CODE P = PROCESSED C = COLLECTED	10. ORIGINATING COMPACT REGION OR STATE	11. AS PROCESSED/COLLECTED TOTAL				
							A. SOURCE MATERIAL (kg)	B. SNM (g)	C. ACTIVITY (MBq)	D. VOLUME (m ³)	
GKP	National Park Service, Gateway National Recreation (718)354-4609	Area, Great Kills Park 201 New York Avenue Staten Island, NY 10305	4.2480	16544 (01/07/2015)	C	NY	0.0000E+00	0.0000E+00	4.5332E+01	4.2480	
TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A)							0.0000E+00	0.0000E+00	4.5332E+01	4.2480	

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0164), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 540 (01-2014)		U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY National Park Service, Gateway National Recreation Area, Great Kills Park 287 New York Avenue Staten Island, NY 10305		SHIPPER I.D. NUMBER WS# 35104-0 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		7. NRC FORM 540 AND 540A NRC FORM 541 AND 541A NRC FORM 542 AND 542A ADDITIONAL INFORMATION None		8. MANIFEST NUMBER (Use this number on all continuation pages) 16544-A	
1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 (Include Area Code)				USER PERMIT NUMBER NA		SHIPMENT NUMBER RSO # 778 USE #5		9. CONSIGNEE - Name and Facility Address US Ecology 20400 Lemley Road Grand View, ID 83624		CONTACT Tino Cereceres TELEPHONE NUMBER (Include Area Code) (800)274-1516 x 2309	
ORGANIZATION Chemtec CCN-19279				CONTACT Kathleen Cuzzolino		TELEPHONE NUMBER (Include Area Code) (718)354-4609		SIGNATURE - Authorized consignee acknowledging waste receipt		DATE	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 4		6. CARRIER - Name and Address Triad Transport, Inc. P.O. Box 818 McAlester, OK 74602		EPA I.D. NUMBER OKD-98-158-8791		10. CERTIFICATION This is to certify that the herein-named materials are acceptable for disposal, are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the Commission. SIGNED ON BEHALF OF NATIONAL PARK SERVICE DATE 1-7-15	
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number				EPA MANIFEST NUMBER 006459253 FLE		CONTACT Dick Dune		TELEPHONE NUMBER (Include Area Code) (330)509-8044		DATE	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)				12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
FOR CONSIGNEE USE ONLY											

APPROVED BY OMB: NO. 3150-0166
EXPIRES: 12/31/2015

Estimated burden per response to comply with this information collection request: 3.3 hours. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0166), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 541 (01-2014)										U.S. NUCLEAR REGULATORY COMMISSION										1. MANIFEST TOTALS										2. MANIFEST NUMBER	
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST										CONTAINER AND WASTE DESCRIPTION										SPECIAL NUCLEAR MATERIAL (grams)										16544-A	
																				3. PAGE 1 OF 2 PAGE(S)											
																				4. SHIPPER NAME National Park Service, Gateway National Recreation											
Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste										SHIPPER I.D. NUMBER WS# 35104-0										5. MANIFEST TOTALS											
DISPOSAL CONTAINER DESCRIPTION										PHYSICAL DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER										16. WASTE CLASSIFICATION	
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL (uSv/hr) (mSv/hr)	10. SURFACE CONTAMINATION (MBq/100 cm²)	11. WASTE DESCRIPTION (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m³)	13. SORBENT SOLIDIFICATION, STABILIZATION, MEDIA (See Note 3)	14. CHEMICAL FORM/ CHELATING AGENT	15. WEIGHT % CHELATING AGENT IF > 0.1%	16. RADIOLOGICAL DESCRIPTION	17. INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT	18. AS-Class A Stable	19. AU-Class A Unstable	20. B-Class B	21. C-Class C															
GKP-SR-010 / WS#35104-0/GKP	4	0.2124	204.1166	9.5000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA	NP	Soil with Debris/ Lead/NP	Ra-226 7.6331E+00																			
												Total 7.6331E+00																			
GKP-SR-017 / WS#35104-0/GKP	4	0.2124	170.0972	2.8000E+01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	NP	Soil with Debris/ Lead/NP	Ra-226 6.3640E+00																			
												Total 6.3640E+00																			
GKP-SR-018 / WS#35104-0/GKP	4	0.2124	181.4370	2.0000E+01	<1.6700E-06	<1.6700E-06	22	0.2124	NA	NP	Soil with Debris/ Lead/NP	Ra-226 6.7858E+00																			
												Total 6.7858E+00																			

Note 1: Container Description Codes. For containers/waste requiring disposal in approved structural overpacks the numerical code must be followed by "-OP."

- | | |
|-------------------------------|---------------------------------------------------|
| 1. Wooden Box or Crate | 9. Demineralizer |
| 2. Metal Box | 10. Gas Cylinder |
| 3. Plastic Drum or Pail | 11. Bulk Unpackaged Waste |
| 4. Metal Drum or Pail | 12. Unpackaged Components |
| 5. Metal Tank or Liner | 13. High Integrity Container |
| 6. Concrete Tank or Liner | 19. Other. Describe in Item 6, or additional page |
| 7. Polyethylene Tank or Liner | |
| 8. Fiberglass Tank or Liner | |

Note 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

- | | | |
|----------------------------|----------------------------------|----------------------------------------------------|
| 20. Charcoal | 29. Demolition Rubble | 38. Evaporator Bottoms/Sludges/Concentrates |
| 21. Incinerator Ash | 30. Cation Ion-exchange Media | 39. Compactible Trash |
| 22. Soil | 31. Anion Ion-exchange Media | 40. Noncompactible Trash |
| 23. Gas | 32. Mixed Bed Ion-exchange Media | 41. Animal Carcass |
| 24. Oil | 33. Contaminated Equipment | 42. Biological Material (except animal carcass) |
| 25. Aqueous Liquid | 34. Organic Liquid (except oil) | 43. Activated Material |
| 26. Filter Media | 35. Glassware or Labware | 59. Other. Describe in Item 11, or additional page |
| 27. Mechanical Filter | 36. Sealed Source/Device | |
| 28. EPA or State Hazardous | 37. Paint or Plating | |

Note 3: For solidification media that meet disposal site structural stability requirements, the numerical code must be followed by "-S." For all solidification media, the vendor (manufacturer) and brand name must also be identified in Item 13. Code 100-NONE REQUIRED.

- | Sorption | | | | Solidification | | | |
|--------------------------|------------------|--------------------|-----------------|----------------------------------------------------|------------------------------|----------------------------------------------------|--|
| 60. Speedi Dri | 64. Safe T Sorb | 69. Chemsil 30 | 74. Petrosel | 89. Other. Describe in item 13, or additional page | 90. Cement | 94. Vinyl Ester Styrene | |
| 61. Celatom | 65. Safe N Dri | 70. Chemsil 50 | 75. Petrosel II | | 91. Concrete (encapsulation) | 99. Other. Describe in item 13, or additional page | |
| 62. Floor Dry/ Superfine | 66. Florco | 71. Chemsil 3030 | 76. Aquaset | | 92. Brumen | | |
| 63. Hi Dri | 67. Florco X | 72. Dicapert HP200 | 77. Aquaset II | | 93. Vinyl Chloride | 100. None Required | |
| | 68. Solid A Sorb | 73. Dicapert HP500 | | | | | |



UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST

U.S. NUCLEAR REGULATORY COMMISSION

2. MANIFEST NUMBER
16544-A

CONTAINER AND WASTE DESCRIPTION (CONTINUATION)

3. PAGE 2 OF 2 PAGE(S)

DISPOSAL CONTAINER DESCRIPTION										WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER					16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/GENERATOR ID NUMBER(S)	6. CONTAINER DESCRIPTION (See Note 1)	7. VOLUME (m³)	8. WASTE AND CONTAINER WEIGHT (kg)	9. SURFACE RADIATION LEVEL		10. SURFACE CONTAMINATION (MBq/100 cm²)		11. WASTE DESCRIPTION (See Note 2)	12. PHYSICAL DESCRIPTION		13. SORBENT SOLIDIFICATION STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/CHELATING AGENT	15. RADIOLOGICAL DESCRIPTION WEIGHT % CHELATING AGENT IF > 0.1% INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT		
				<input checked="" type="checkbox"/> (uSv/hr) (mSv/hr)	<input type="checkbox"/>	ALPHA	BETA-GAMMA		APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m³)						
GKP-SR-019 / WS#35104-0/GKP	4	0.2124	226.7962	<input checked="" type="checkbox"/>	7.0000E+00	<1.6700E-06	<1.6700E-06	22	0.2124	NA	Soil with Debris/ Lead/NP	NP	Ra-226 8.4841E+00	AU	
													Total 8.4841E+00		
Shipment Totals		0.8496	782.4470										2.9267E+01		

Estimated burden per response to comply with this information collection request: 45 minutes. This uniform manifest is required by NRC to meet reporting requirements of Federal and State Agencies for the safe transportation and disposal of low-level waste. Send comments regarding burden estimate to the FOIA, Privacy, and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollections.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0166), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

NRC FORM 542 (01-2014)			U.S. NUCLEAR REGULATORY COMMISSION			1. WASTE COLLECTOR/PROCESSOR			2. MANIFEST NUMBER				
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST			MANIFEST INDEX AND REGIONAL COMPACT TABULATION			NAME National Park Service, Gateway National Recreation			SHIPPER USE ONLY				
						IDENTIFICATION NUMBER GKP							
						SHIPPING DATE 1/7/2015							
List all original "PROCESSED WASTE" generators (if any) before "COLLECTED WASTE" generators.						3. PAGE 1 OF 1 PAGE(S)							
4. GENERATOR IDENTIFICATION NUMBER	5. GENERATOR NAME PERMIT NUMBER (IF APPLICABLE) AND TELEPHONE NUMBER	6. GENERATOR FACILITY ADDRESS	7. PREPROCESSED WASTE (OR MATERIAL) VOLUME (m³)	8. MANIFEST NUMBER(S) UNDER WHICH WASTE (OR MATERIAL) RECEIVED AND DATE OF RECEIPT	9. WASTE CODE P = PROCESSED C = COLLECTED	10. ORIGINATING COMPACT REGION OR STATE	11. AS PROCESSED/COLLECTED TOTAL						
							A. SOURCE MATERIAL (kg)	B. SNM (g)	C. ACTIVITY (MBq)	D. VOLUME (m³)			
GKP	National Park Service, Gateway National Recreation (718)354-4609	Area, Great Kills Park 201 New York Avenue Staten Island, NY 10305	0.8496	16544-A (01/07/2015)	C	NY	0.0000E+00	0.0000E+00	2.9267E+01	0.8496			
TOTALS OF ALL PAGES (NRC FORMS 542 AND 542A)							0.0000E+00	0.0000E+00	2.9267E+01	0.8496			

[illegible]

FORM 541 UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST CONTAINER AND WASTE DESCRIPTION Additional Nuclear Regulatory Commission (NRC) Requirements for Control, Transfer and Disposal of Radioactive Waste		Radiation Service Organization		1. MANIFEST TOTALS								2. MANIFEST NUMBER 16544-B	
		NUMBER OF PACKAGES/ DISPOSAL CONTAINERS 1	NET WASTE VOLUME	NET WASTE WEIGHT	SPECIAL NUCLEAR MATERIAL (grams)				SOURCE (kg) (kg) NA (lbs) NA		3. PAGE 1 OF 1 PAGE(S) 4. SHIPPER NAME National Park Service, Gateway National Recreation SHIPMENT ID NUMBER NA		
			m3	kg	U-233	U-235	Pu	Total					
			ft3	lb	NP	NP	NP	NP					
			ACTIVITY										
MBq	2.7750E+01	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP		
mCi	7.5000E-01	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP		

DISPOSAL CONTAINER DESCRIPTION						WASTE DESCRIPTION FOR EACH WASTE TYPE IN CONTAINER								16. WASTE CLASSIFICATION AS-Class A Stable AU-Class A Unstable B-Class B C-Class C
5. CONTAINER IDENTIFICATION NUMBER/ GENERATOR ID NUMBER	6. CONTAINER DESCRIPTION (See Note 1) PROCESS REQUESTED (See Note 1A) BURIAL/DISPOSITION (See Note 2A)	7. VOLUME (m3) (ft3)	8. WASTE AND CONTAINER WEIGHT (kg) (lb)	9. SURFACE RADIATION LEVEL (mSv/hr) (mrem/hr)	10. SURFACE CONTAMINATION (MBq/100 cm2) (dpm/100cm2)		11. WASTE DESCRIPTOR (See Note 2)	12. APPROXIMATE WASTE VOLUME(S) IN CONTAINER (m3) (FT3)	13. SOLIDIFICATION OR STABILIZATION MEDIA (See Note 3)	14. CHEMICAL DESCRIPTION CHEMICAL FORM/ CHELATING AGENT	15. RADIOLOGICAL DESCRIPTION WEIGHT % CHELATING AGENT IF > 0.1% INDIVIDUAL RADIONUCLIDES AND ACTIVITY (MBq) AND CONTAINER TOTAL; OR CONTAINER TOTAL ACTIVITY AND RADIONUCLIDE PERCENT			
					ALPHA	BETA-GAMMA								
					RADIONUCLIDES							MBq	mCi	
60207/GKP	A C E	0.2124 7.5000	204.1166 450.0000	7.0000E-02 7.0000E+00	<1.6700E-06 <1.0000E+02	<1.6700E-06 <1.0000E+02	59-Radium debris, Radium contaminated soil	0.2124 7.5000	NA	Radium debris/soil/NP	NP	Ra-226 Subtotal Total 2.7750E+01 2.7750E+01 2.7750E+01	7.5000E-01 7.5000E-01 7.5000E-01	AU
Shipment Totals		0.2124 7.5000	204.1166 450.0000									2.7750E+01 7.5000E-01		

Note 1: Container Description Codes. For containers/ waste requiring disposal in approved structural over-packs the numerical code must be followed by "OP."

1. Wooden Box or Crate	9. Demineralizer
2. Metal Box	10. Gas Cylinder
3. Plastic Drum or Pail	11. Bulk, Unpackaged Waste
4. Metal Drum or Pail	12. Unpackaged Components
5. Metal Tank or Liner	13. High Integrity Container
6. Concrete Tank or Liner	19. Other. Describe in Item 6, or additional page
7. Polyethylene Tank or Liner	
8. Fiberglass Tank or Liner	

Note 1A: Process Requested

C	Compaction
SR	Steam Reforming
DI	Direct Incineration
SI	Sort & Incinerate
D	Decon
G	Green is Clean
M	Metal Melt
T	Trans-Ship
LI	Liquid for Incineration
OI	Oil for Incineration
O	Other (describe)

NOTE 2: Waste Descriptor Codes. (Choose up to three which predominate by volume.)

20. Charcoal	29. Demolition Rubble	38. Evaporator Bottoms/Sludges/ Concentrates
21. Incinerator Ash	30. Cation Ion-exchange Media	39. Compactible Trash
22. Soil	31. Anion Ion-exchange Media	40. Noncompactible Trash
23. Gas	32. Mixed Bed Ion-exchange Media	41. Animal Carcass
24. Oil	33. Contaminated Equipment	42. Biological Material (except animal carcass)
25. Aqueous Liquid	34. Organic Liquid (except oil)	43. Activated Material
26. Filter Media	35. Glassware or Labware	59. Other. Describe in Item 11, or additional page
27. Mechanical Filter	36. Sealed Source/Device	
28. EPA or State Hazardous	37. Paint or Plating	

NOTE 2A: Burial/Disposition Site

B	Barnwell Waste Management
E	Envirocare
R	Richland, WA
PR	Process and Return
O	Other

Note3: Solidification and Stabilization Media Codes. (Choose up to three which predominate by volume. For media meeting disposal site structural stability requirements, the numerical code must be followed by "S," and the media vendor and brand name must also be identified in Item 13. Code 100=NONE REQUIRED)

Solidification	
90. Cement	94. Vinyl Ester Styrene
91. Concrete	99. Other. Describe in Item 13, or additional page
92. Bitumen (encapsulation)	
93. Vinyl Chloride	100. None Required

US Ecology Idaho, Inc.
P.O. Box 400
20400 Lemley Road
Grand View, Idaho 83624

Phone: (800) 274 1516
(208) 834 2275
Fax: (208) 834 2997
(208) 834 2919

US Ecology Idaho

a US Ecology Inc. company

December 02, 2014

DAVID WELLNER
RSO INC
PO BOX 1450
LAUREL, MD 20725-1450

RE: Generator : NATIONAL PARK SERVICES, GATEWAY NATIONAL REC AREA
Mailing Address : 201 NEW YORK AVE, STATEN ISLAND, NY 10305
US Ecology WS # : 35104-0
Waste Stream Name : SOIL WITH RA-226 (>500 PCI/G) CONTAMINATION FROM LUMINOUS PAINTED ITEMS
Expiration Date : 12/02/2015

Dear David Wellner,

The above listed waste stream has been approved for acceptance at US Ecology Idaho (USEI), which is an authorized facility and has the appropriate permits necessary to handle the waste material described on the "Waste Product Questionnaire" (WPQ) as approved.

This Waste Profile is identified with a Waste Stream ID Number and is valid until the expiration date of 12/02/2015, when annual re-characterization of the waste is required.

Shipment of the waste profiled by the above WSID constitutes acceptance of all Terms and Conditions listed as an Addendum to the Agreement/Contract. If the regulations change, or the waste stream or process generating the waste changes, it is the generator's responsibility to inform USEI by a letter or submittal of a new profile and current analysis. USEI reserves the right to request additional sampling and analysis at any time.

A. All waste material must be packaged, labeled and manifested in strict accordance with all applicable EPA and DOT requirements. The above WSID must be marked on each drum or unit. Please note that labpack shipments cannot be accepted until packing list have been reviewed and approved by USEI.

B. To schedule a delivery, please call Sophie Livingston in the Customer Service Department at 1-800-274-1516 ext. 2310, at least 48 hours prior to your anticipated shipping date. Scheduling hours are from 7:30 a.m. to 3:30 p.m. MST, Monday through Friday

If you have any questions or need additional information, please feel free to call the Customer Service Department at 1-800-274-1516.

Sincerely,



TINO CERECERES
CUSTOMER SERVICE SUPERVISOR

US Ecology Idaho, Inc.
P.O. Box 400
20400 Lemley Road
Grand View, Idaho 83624

Phone: (800) 274 1516
(208) 834 2275
Fax: (208) 834 2997
(208) 834 2919

US Ecology Idaho

a US Ecology Inc. company

December 02, 2014

DAVID WELLNER
RSO INC
PO BOX 1450
LAUREL, MD 20725-1450

RE: Generator : NATIONAL PARK SERVICES, GATEWAY NATIONAL REC AREA
Mailing Address : 201 NEW YORK AVE, STATEN ISLAND, NY 10305
US Ecology WS # : 35107-0
Waste Stream Name : SOIL WITH RA-226 (<500 PCI/G) CONTAMINATION FROM LIMINOUS PAINTED ITEMS
Expiration Date : 12/02/2015

Dear David Wellner,

The above listed waste stream has been approved for acceptance at US Ecology Idaho (USEI), which is an authorized facility and has the appropriate permits necessary to handle the waste material described on the "Waste Product Questionnaire" (WPQ) as approved.

This Waste Profile is identified with a Waste Stream ID Number and is valid until the expiration date of 12/02/2015, when annual re-characterization of the waste is required.

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If you have any questions or need additional information, please feel free to call the Customer Service Department at 1-800-274-1516.

Sincerely,



TINO CERECERES
CUSTOMER SERVICE SUPERVISOR

US Ecology Idaho, Inc.
P.O. Box 400
20400 Lemley Road
Grand View, Idaho 83624

Phone: (800) 274 1516
(208) 834 2275
Fax: (208) 834 2997
(208) 834 2919

US Ecology Idaho

a US Ecology Inc. company

January 12, 2015

DAVID WELLNER
RSO INC
PO BOX 1450
LAUREL, MD 20725-1450

RE: Generator : NATIONAL PARK SERVICES, GATEWAY NATIONAL REC AREA
Mailing Address : 201 NEW YORK AVE, STATEN ISLAND, NY 10305
US Ecology WS # : 35104-1
Waste Stream Name : SOIL WITH RA-226 (>500 PCI/G) CONTAMINATION FROM LUMINOUS PAINTED ITEMS
Expiration Date : 01/12/2016

Dear David Wellner,

The above listed waste stream has been approved for acceptance at US Ecology Idaho (USEI), which is an authorized facility and has the appropriate permits necessary to handle the waste material described on the "Waste Product Questionnaire" (WPQ) as approved.

This Waste Profile is identified with a Waste Stream ID Number and is valid until the expiration date of **01/12/2016**, when annual re-characterization of the waste is required.

Shipment of the waste profiled by the above WSID constitutes acceptance of all Terms and Conditions listed as an Addendum to the Agreement/Contract. If the regulations change, or the waste stream or process generating the waste changes, it is the generator's responsibility to inform USEI by a letter or submittal of a new profile and current analysis. USEI reserves the right to request additional sampling and analysis at any time.

A. All waste material must be packaged, labeled and manifested in strict accordance with all applicable EPA and DOT requirements. The above WSID must be marked on each drum or unit. Please note that labpack shipments cannot be accepted until packing list have been reviewed and approved by USEI.

B. To schedule a delivery, please call **Sophie Livingston in the Customer Service Department at 1-800-274-1516 ext. 2310, at least 48 hours prior to your anticipated shipping date. Scheduling hours are from 7:30 a.m. to 3:30 p.m. MST, Monday through Friday**

If you have any questions or need additional information, please feel free to call the Customer Service Department at 1-800-274-1516.

Sincerely,



TINO CERECERES
CUSTOMER SERVICE SUPERVISOR



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 # _____

A. GENERATOR INFORMATION			
1. Generator: National Park Service, Gateway National - cont.		<input type="checkbox"/> Billing information is same <input type="checkbox"/> P.O. required for payment	
2. Facility Address: - Recreation Area, Great Kills Park		12. Billing Company: RSO, Inc.	
3. Mailing Address: 201 New York Ave.		13. Billing Address: PO Box 1450	
4. City/State/Zip: Staten Island, NY 10305		14. City/State/Zip: Laurel, MD 20725-1450	
5. Technical Contact: Kathleen Cuzzolino		15. Billing Contact: David Wellner	
6. Phone: 718-354-4609		16. Phone: 301-953-2482 x306	17. Fax:
7. Fax:		18. Email: dwellner@rsolnc.com	
8. Generator Status: <input type="checkbox"/> CESQG <input checked="" type="checkbox"/> SQG <input type="checkbox"/> LQG			
9. EPA ID #: NYD982794877		10. State ID #:	
11. SIC Codes:			
B. SHIPPING INFORMATION			
1. US DOT Shipping name: Radioactive material, low specific activity, (LSA I)			
2. Hazard Class: 7	3. UN/NA #: 2912	4. Packaging Group:	5. RQ:
6. Container Type: <input type="checkbox"/> Bulk <input type="checkbox"/> Totes <input type="checkbox"/> Pallet <input type="checkbox"/> Boxes <input checked="" type="checkbox"/> Drums <input type="checkbox"/> Other, Describe:			
7. Frequency: <input type="checkbox"/> Year <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> 1 time <input type="checkbox"/> Other, Describe:			
8. Shipment: Size: 55 gallon Quantity: 4		9. Waste Import: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, complete Waste Import Supplement)	
C. GENERAL MATERIAL & REGULATORY INFORMATION			
1. Common name for this waste: Soil with Ra-226 contamination from luminous painted items			
2. Process generating the material: Investigation derived waste.			
3. Describe physical appearance and odor of the waste: Solid soil and rubble with pieces/parts of radium luminous items			
4. Odor of the waste: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Strong		5. Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge/Slurry <input checked="" type="checkbox"/> Solid	
6. Describe Color: brown / tan		7. Liquid phases: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double Layer <input type="checkbox"/> Multi-layer	
8. Knowledge is from: <input checked="" type="checkbox"/> Lab analysis <input type="checkbox"/> MSDS <input type="checkbox"/> Process/generator knowledge			
9. Waste Type (US Ecology Texas customers only): <input type="checkbox"/> N/A <input type="checkbox"/> Industrial <input type="checkbox"/> Non-Industrial			
10. Is the waste restricted under EPA Land Disposal Restrictions (§268)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
11. If LDR "Yes", is waste: <input type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Non-wastewater <input type="checkbox"/> Debris (§268.2)		12. Alt. Standards for soil? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
13. Is the waste RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312)? (If yes, complete Benzene Waste Operations Supplement Form and Thermal Supplement Form): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
14. VO Conc.(§264.1083): <input checked="" type="checkbox"/> <500 ppmw <input type="checkbox"/> ≥500ppmw		15. Has waste been treated after point of generation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
16. CERCLA Regulated (Superfund) Waste: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17. Butadiene waste regulated by §63 Subpart XX: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If yes, list all UHC's in Section D): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
19. Waste exempt from definition of "solid waste" or "hazardous waste" (If yes, list reference 40CFR _____): <input type="checkbox"/> Yes <input type="checkbox"/> No			
20. State Waste Codes:			
21. RCRA Waste Codes: D008			
22. Source Code: G75 t			
23. Form Code: N/A		24. Management Code: H (USE only)	

D. MATERIAL COMPOSITION (use additional form if necessary)				
Values are: <input checked="" type="checkbox"/> TCLP <input type="checkbox"/> TOTALS		Range total $\geq 100\%$		
Constituent	Units	Typical	Min	Max
Arsenic	ug/l	20		
Barium	ug/l	190		
Cadmium	ug/l	38		
Chromium	ug/l	100		
Lead	ug/l	7100		
Selenium	ug/l	10		
Silver	ug/l	1		
Radium 226 soil, with debris (PPE, metal, plastic) debris 0-10% and soil 90-100%				

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>>205</u> °F <input type="checkbox"/> < 140 °F				

F. GENERATOR'S CERTIFICATION	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No I certify this material may be disposed without further treatment.	
<p>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.</p>	
Print Name	Signature
Kathleen Cuzzolino	<i>Kathleen Cuzzolino</i>
Title	Date
CECCLA PM	11/24/14



UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# _____

A. GENERATOR INFORMATION		B. DISPOSAL SITE	
1. Generator:	National Park Service Gateway National Rec. Area	<input checked="" type="checkbox"/> US Ecology Idaho (complete Pgs 1 and 2)	
2. Common Name of Material:	Soil and rubble	<input type="checkbox"/> US Ecology Nevada (Complete Pg 1 only)	
3. Material Description:	Radium soil, w/debris 0-10% and soil 90-100%	<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 generally exempt source material. Does the material contain? (check all that apply)			
<input 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	
$\frac{\text{Conc } U-238}{167 \text{ pCi/g}} + \frac{\text{Conc } Th-232}{55 \text{ pCi/g}} \leq 1$		$\frac{\text{Conc } U\text{-Total}}{333 \text{ pCi/g}} + \frac{\text{Conc } Th\text{-Total}}{110 \text{ pCi/g}} \leq 1$	
Depleted Uranium + Thorium			
$\frac{\text{Conc } U-238}{169 \text{ pCi/g}} + \frac{\text{Conc } Th-232}{55 \text{ pCi/g}} \leq 1$			
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-230. 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)			
D. NORM other than Uranium and Thorium Uniformly Dispersed in Soil or Other Media			
1. Does the waste contain:	<input checked="" type="checkbox"/> Ra-226 / Ra-228	<input type="checkbox"/> Pb-210	<input type="checkbox"/> K-40
2. Waste Concentration (pCi/g):	1010.0		
Site Limits:	USEI 500 / 1500 ^u	1500	818 ^u
(all in pCi/g)	USEN 5 ^u	N/A	818 ^u
	USET 30 ^u	150	818 ^u
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 Idaho Nuclear Regulatory Commission or an Agreement State, in accordance with		are not licensed or regulated at the point of generation by the US (cite regulation or other document that confirms)	
materials are not licensed by the NRC or an agreement state).			
Kathleen Cuzzolino - CEXCLAPM Name / Title (please print)			
		11/24/14 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: Average per 55 gallon drum Ra-226 183 uCi. 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>
4.	Is the material acceptable under USEI Table C.4b as <u>not licensed or regulated by the NRC or Agreement State under the Atomic Energy Act</u> ? <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 checked="" 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 equl): <u>U-238 Limit = 214 pCi/g</u> (U-238 * 14 decay progeny < 3,000 pCi/g) Depleted Uranium: <u>U-238 Limit = 877 pCi/g</u> (Only contains U-238, Th-234, Pa-234m, U-235, and U-234) Natural Thorium (in equl): <u>Th-232 Limit = 272 pCi/g</u> (Th-232 * 12 decay progeny < 3,000 pCi/g) <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	



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 # _____

A. GENERATOR INFORMATION			
1. Generator: National Park Service, Gateway National - cont.		<input type="checkbox"/> Billing information is same	<input type="checkbox"/> P.O. required for payment
2. Facility Address: - Recreation Area, Great Kills Park		12. Billing Company: RSO, Inc.	
3. Mailing Address: 201 New York Ave.		13. Billing Address: PO Box 1450	
4. City/State/Zip: Staten Island, NY 10305		14. City/State/Zip: Laurel, MD 20725-1450	
5. Technical Contact: Kathleen Cuzzolino		15. Billing Contact: David Wellner	
6. Phone: 718-354-4609	7. Fax:	16. Phone: 301-953-2482 x306	17. Fax:
		18. Email: dwellner@rsolinc.com	
8. Generator Status: <input type="checkbox"/> CESQG <input checked="" type="checkbox"/> SQG <input type="checkbox"/> LQG			
9. EPA ID #: NYD982794877		10. State ID #:	
11. SIC Codes:			
B. SHIPPING INFORMATION			
1. US DOT Shipping name: Radioactive material, low specific activity, (LSA I)			
2. Hazard Class: 7	3. UN/NA #: 2912	4. Packaging Group:	5. RQ:
6. Container Type: <input type="checkbox"/> Bulk <input type="checkbox"/> Totes <input type="checkbox"/> Pallet <input type="checkbox"/> Boxes <input checked="" type="checkbox"/> Drums <input type="checkbox"/> Other, Describe:			
7. Frequency: <input type="checkbox"/> Year <input type="checkbox"/> Quarterly <input type="checkbox"/> Monthly <input checked="" type="checkbox"/> 1 time <input type="checkbox"/> Other, Describe:			
8. Shipment: Size: 55 gallon Quantity: 20		9. Waste Import: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, complete Waste Import Supplement)	
C. GENERAL MATERIAL & REGULATORY INFORMATION			
1. Common name for this waste: Soil with Ra-226 contamination from luminous painted items			
2. Process generating the material: Investigation derived waste.			
3. Describe physical appearance and odor of the waste: Solid soil and rubble with pieces/parts of radium luminous items			
4. Odor of the waste: <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Strong		5. Physical State: <input type="checkbox"/> Liquid <input type="checkbox"/> Sludge/Slurry <input checked="" type="checkbox"/> Solid	
6. Describe Color: brown / tan		7. Liquid phases: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Double Layer <input type="checkbox"/> Multi-layer	
8. Knowledge is from: <input checked="" type="checkbox"/> Lab analysis <input type="checkbox"/> MSDS <input type="checkbox"/> Process/generator knowledge			
9. Waste Type (US Ecology Texas customers only): <input type="checkbox"/> N/A <input type="checkbox"/> Industrial <input type="checkbox"/> Non-Industrial			
10. Is the waste restricted under EPA Land Disposal Restrictions (§268)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
11. If LDR "Yes", is waste: <input type="checkbox"/> Wastewater <input checked="" type="checkbox"/> Non-wastewater <input type="checkbox"/> Debris (§268.2)		12. Alt. Standards for soil? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
13. Is the waste RCRA hazardous waste containing benzene and originating at a Petroleum Refinery (SIC 2911), Chemical Manufacturing Plant (SIC 2800 thru 2899) or Coke by-Product Recovery Plant (SIC 3312)? (If yes, complete Benzene Waste Operations Supplement Form and Thermal Supplement Form):		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
14. VO Conc. (§264.1083): <input checked="" type="checkbox"/> <500 ppmw <input type="checkbox"/> ≥500ppmw		15. Has waste been treated after point of generation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
16. CERCLA Regulated (Superfund) Waste: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		17. Butadiene waste regulated by §63 Subpart XX: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
18. Waste contains UHC constituent(s) (§268.48), above a treatment standard, other than those for which the waste exhibits a characteristic. (If yes, list all UHC's in Section D):		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
19. Waste exempt from definition of "solid waste" or "hazardous waste" (If yes, list reference 40CFR _____):		<input type="checkbox"/> Yes <input type="checkbox"/> No	
20. State Waste Codes:			
21. RCRA Waste Codes:			
22. Source Code: G75 1			
23. Form Code: N/A		24. Management Code: H (USE only)	

[illegible]



UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# _____

A. GENERATOR INFORMATION		B. DISPOSAL SITE	
1. Generator:	National Park Service Gateway National Rec. Area	<input checked="" type="checkbox"/> US Ecology Idaho (complete Pgs 1 and 2)	
2. Common Name of Material:	Soil and rubble	<input type="checkbox"/> US Ecology Nevada (Complete Pg 1 only)	
3. Material Description:	Radium soil, w/debris 0-10% and soil 90-100%	<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 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	
$\frac{Conc_{U-238}}{167pCu/g} + \frac{Conc_{Th-232}}{55pCu/g} \leq 1$		$\frac{Conc_{U-Total}}{333pCu/g} + \frac{Conc_{Th-Total}}{110pCu/g} \leq 1$	
Depleted Uranium + Thorium			
$\frac{Conc_{U-238}}{169pCu/g} + \frac{Conc_{Th-232}}{55pCu/g} \leq 1$			
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-230			
3. Use this space to perform source material SOF calculations: (If waste only contains U or Th, enter zero for other nuclide)			
D. NORM other than Uranium and Thorium Uniformly Dispersed in Soil or Other Media			
1. Does the waste contain:	<input checked="" type="checkbox"/> Ra-226 / Ra-228	<input type="checkbox"/> Pb-210	<input type="checkbox"/> K-40
2. Waste Concentration (pCi/g):	484.0		
Site Limits:	USEI	500 / 1500 ^u	1500
(all in pCi/g)	USEN	5 ^u	N/A
	USET	30 ^u	150
See Site WAC or State Exemption regulations			
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 Idaho		are not licensed or regulated at the point of generation by the US	
Nuclear Regulatory Commission or an Agreement State, in accordance with _____		(cite regulation or other document that confirms	
materials are not licensed by the NRC or an agreement state).			
Kathleen Cuzzolino - PM			
Name / Title (please print)			
Kathleen Cuzzolino			
Signature			
11/24/14			
Date			



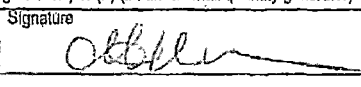
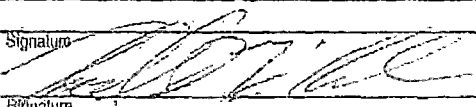
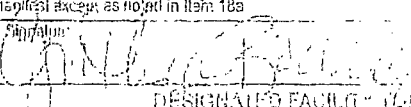
UNIFORM RADIOACTIVE WASTE ACCEPTANCE CRITERIA SUPPLEMENT

PROFILE# _____

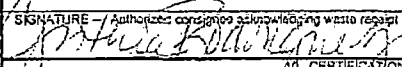

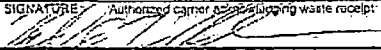
ADDITIONAL RAD SUPPLEMENT QUESTIONS FOR SHIPMENTS TO US ECOLOGY IDAHO ONLY				
G. Particle Accelerator Produced Radioactive Material (NARM) (USEI WAC Table C.3)				
1. Was the waste generated in a particle accelerator? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
2. Estimated inventory of activity, by isotope, for each container: <u>Average per 55 gallon drum Ra-226 73.2 uCi.</u> 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? If yes, provide a copy of the exemption.	Yes	<input type="checkbox"/>	No <input checked="" 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? If yes, provide a copy of the approval request, NRC exemption, and applicable SER/FONSI.	Yes	<input type="checkbox"/>	No <input checked="" type="checkbox"/>
3.	Was the material approved for alternate disposal via a decommissioning plan or license amendment? If yes, provide a copy of the license or plan.	Yes	<input type="checkbox"/>	No <input checked="" 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? If yes, provide documentation that the radioactive material is unlicensed and refer to the applicable section(s) below (4a - 4c):	Yes	<input type="checkbox"/>	No <input checked="" 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 both uranium and thorium, a sum of fractions (SOF) must be calculated using the limits provided below: <ul style="list-style-type: none"> Natural Uranium (In equl): <u>U-238 Limit = 214 pCi/g</u> (U-238 * 14 decay progeny < 3,000 pCi/g) Depleted Uranium: <u>U-238 Limit = 877 pCi/g</u> (Only contains U-238, Th-234, Pa-234m, U-235, and U-234) Natural Thorium (In equl): <u>Th-232 Limit = 272 pCi/g</u> (Th-232 * 11 decay progeny < 3,000 pCi/g) <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	

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NYD-98-279-4877	2. Page 1 of 1	3. Emergency Response Phone 1-800-424-9300	4. Manifest Tracking Number 006459253 FLE		
5. Generator's Name and Mailing Address National Park Service, Gateway National Recreation Area Great Kills Park 201 New York Avenue 210 NEW YORK AVENUE Staten Island, NY 10305 Generator's Phone: (718) 354-4609			Generator's Site Address (if different than mailing address)				
6. Transporter 1 Company Name Triad Transport, Inc.			U.S. EPA ID Number OKD-98-158-8791				
7. Transporter 2 Company Name			U.S. EPA ID Number				
8. Designated Facility Name and Site Address US Ecology 20400 Lemley Road Grand View, ID 83624 Facility's Phone: (800) 274-1516 x2309			U.S. EPA ID Number IDD-07-311-4654				
GENERATOR	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.	
			No.	Type			
	X	1. Waste, UN2912, Radioactive material, low specific activity (LSA I), 7	4	DM	816	K	
		2.					
		3.					
		4.					
13. Waste Codes D008							
14. Special Handling Instructions and Additional Information <div style="text-align: right;">Manifest # 16544-A</div> <div style="text-align: right;">Trailer # 32416 Pro # 1310431</div> <div>Emergency Contact: Chemtrec CCN-19279</div>							
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/Officer's Printed/Typed Name ON BEHALF OF NPS CHRISTOPHER M. HALLAM			Signature 		Month Day Year 10 07 15		
TRANSPORTER	16. International Shipments: <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
	Transporter signature (for exports only): _____						
	17. Transporter Acknowledgment of Receipt of Materials						
	Transporter 1 Printed/Typed Name TODD M. CALLOCH			Signature 		Month Day Year 11 17 15	
Transporter 2 Printed/Typed Name			Signature		Month Day Year		
DESIGNATED FACILITY	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 Profile # 35104 per Schedule 11/2/15						
	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: Declaration of receipt of hazardous materials covered by the manifest except as noted in Item 18a Michael Burke-Guy Signature  11 17 15							

NRC FORM 540 (01-2014)		U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY National Park Service, Gateway National Recreation Area, Great Kills Park 210 New York Avenue Staten Island, NY 10305		SHIPPER I.D. NUMBER WS# 35104-0 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR <input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		7. NRC FORM 540 AND 540A PAGE 1 OF 1 NRC FORM 541 AND 541A NRC FORM 542 AND 542A ADDITIONAL INFORMATION		8. MANIFEST NUMBER (Use this number on all continuation pages) 16544-A	
1. EMERGENCY TELEPHONE NUMBER (Include Area Code) 1-800-424-9300				USER PERMIT NUMBER NA		SHIPMENT NUMBER RSO # 778 USE #5		9. CONSIGNEE - Name and Facility Address US Ecology 20400 Lemley Road Grand View, ID 83624		CONTACT Tino Ceraceras TELEPHONE NUMBER (Include Area Code) (800)274-1516 x 2309	
ORGANIZATION Chamtec CCN-19279				CONTACT Kathleen Cuzzolino		TELEPHONE NUMBER (Include Area Code) (718)354-4609		SIGNATURE - (Authorized consignee acknowledging waste receipt) <i>[Signature]</i>		DATE 11/10/15	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO				3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 4		6. CARRIER - Name and Address Triad Transport, Inc. P.O. Box 818 McAlester, OK 74502		EPA I.D. NUMBER OKD-98-158-8791		10. CERTIFICATION This is to certify that the herein-named materials are acceptable for disposal, are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the Commission.	
4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number				EPA MANIFEST NUMBER 006459253 FLE		CONTACT Dick Dune		SHIPPING DATE 01/07/2015		SIGNED ON BEHALF OF NATIONAL PARK SERVICE AUTHORIZED SIGNATURE <i>[Signature]</i> DATE 1-7-15	
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)				12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
Waste, UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum				NA		NA		Solid Soil with Debris/ Lead		Ra-226	
FOR CONSIGNEE USE ONLY											

NRC FORM 540 (01-2014)		U.S. NUCLEAR REGULATORY COMMISSION UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER		5. SHIPPER - NAME AND FACILITY National Park Service, Gateway National Recreation Area, Great Kills Park 210 New York Avenue Staten Island, NY 10305		SHIPPER I.D. NUMBER WS#35107-0 / 35104-0 <input type="checkbox"/> COLLECTOR <input type="checkbox"/> PROCESSOR		7. NRC FORM 540 AND 540A PAGE 1 OF 3 PAGE(S) NRC FORM 541 AND 541A 5 PAGE(S) NRC FORM 542 AND 542A 1 PAGE(S) ADDITIONAL INFORMATION None PAGE(S)		8. MANIFEST NUMBER (Use this number on all continuation pages) 16544																	
				USER PERMIT NUMBER NA		SHIPMENT NUMBER RSO#778 USE#5		<input checked="" type="checkbox"/> GENERATOR TYPE (Specify) G		9. CONSIGNEE - Name and Facility Address US Ecology 20400 Lemley Road Grand View, ID 83624		CONTACT Tino Cereceres (Include Area Code) (800)274-1516 x2309 DATE 1/12/15															
1. EMERGENCY TELEPHONE NUMBER 1-800-424-9300 (Include Area Code)				6. CARRIER - Name and Address Triad Transport, Inc. P.O. Box 816 McAlester, OK 74502		TELEPHONE NUMBER (Include Area Code) (718)354-4809		SIGNATURE - Authorized consignee acknowledging waste receipt 		10. CERTIFICATION This is to certify that the herein-named materials are acceptable for disposal, are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation and the Commission. SIGNED ON BEHALF OF NATIONAL PARK SERVICE AUTHORIZED SIGNATURE:  TITLE: USAACE HEALTH PHYSICIST DATE: 07-JAN-15																	
2. IS THIS AN "EXCLUSIVE USE" SHIPMENT? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3. TOTAL NUMBER OF PACKAGES IDENTIFIED ON THIS MANIFEST 20		4. DOES EPA REGULATED WASTE REQUIRING A MANIFEST ACCOMPANY THIS SHIPMENT? If "Yes," provide Manifest Number <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		EPA MANIFEST NUMBER		CONTACT Dick Dune SIGNATURE - Authorized carrier acknowledging waste receipt:  DATE: 1-7-15		11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)		12. DOT LABEL "RADIOACTIVE"		13. TRANSPORT INDEX		14. PHYSICAL AND CHEMICAL FORM		15. INDIVIDUAL RADIONUCLIDES		16. TOTAL PACKAGE ACTIVITY (MBq)		17. LSA/SCO CLASS		18. TOTAL WEIGHT OR VOLUME (Use appropriate units)		19. IDENTIFICATION NUMBER OF PACKAGE	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum												NA		NA		Solid Soil with debris		Ra-226		1.1100E-01		LSA-I		375 LBS; 7.5 FT3		GKP-SR-001 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum												NA		NA		Solid Soil with debris		Ra-226		6.5194E+00		LSA-I		400 LBS; 7.5 FT3		GKP-SR-002 / WS#35104-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum												NA		NA		Solid Soil with debris		Ra-226		6.5194E+00		LSA-I		400 LBS; 7.5 FT3		GKP-SR-003 / WS#35104-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum												NA		NA		Solid Soil with debris		Ra-226		1.1100E-01		LSA-I		375 LBS; 7.5 FT3		GKP-SR-004 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum												NA		NA		Solid Soil with debris		Ra-226		1.3320E-01		LSA-I		450 LBS; 7.5 FT3		GKP-SR-005 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum												NA		NA		Solid Soil with debris		Ra-226		2.8120E-01		LSA-I		375 LBS; 7.5 FT3		GKP-SR-006 / WS#35107-0	
FOR CONSIGNEE USE ONLY Labeled 35104-H per TC 1/12/15 Laid																											

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U.S. NUCLEAR REGULATORY COMMISSION										8. MANIFEST NUMBER (Use this number on all continuation tags) 16544	
NRC FORM 540A (01-2014)										Page 2 of 3 Pages	
UNIFORM LOW-LEVEL RADIOACTIVE WASTE MANIFEST SHIPPING PAPER (CONTINUATION)											
11. U.S. DEPARTMENT OF TRANSPORTATION DESCRIPTION (Including proper shipping name, hazard class, UN ID number, and any additional information)	12. DOT LABEL "RADIOACTIVE"	13. TRANSPORT INDEX	14. PHYSICAL AND CHEMICAL FORM	15. INDIVIDUAL RADIONUCLIDES			16. TOTAL PACKAGE ACTIVITY IN SI UNITS	17. LSA/SCO CLASS	18. TOTAL WEIGHT OR VOLUME (Use appropriate units)	19. IDENTIFICATION NUMBER OF PACKAGE	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			3.7370E-01	LSA-I	500 LBS; 7.5 FT3	GKP-SR-007 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			3.3670E-01	LSA-I	450 LBS; 7.5 FT3	GKP-SR-008 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			3.3670E-01	LSA-I	450 LBS; 7.5 FT3	GKP-SR-009 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			5.5500E-02	LSA-I	450 LBS; 7.5 FT3	GKP-SR-011 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			5.9200E-02	LSA-I	475 LBS; 7.5 FT3	GKP-SR-012 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			5.5500E-02	LSA-I	450 LBS; 7.5 FT3	GKP-SR-013 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			5.5500E-02	LSA-I	450 LBS; 7.5 FT3	GKP-SR-014 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			1.1100E-01	LSA-I	375 LBS; 7.5 FT3	GKP-SR-015 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			1.3320E-01	LSA-I	450 LBS; 7.5 FT3	GKP-SR-016 / WS#35107-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			6.1087E+00	LSA-I	375 LBS; 7.5 FT3	GKP-SR-020 / WS#35104-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			6.5194E+00	LSA-I	400 LBS; 7.5 FT3	GKP-SR-021 / WS#35104-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			6.1087E+00	LSA-I	375 LBS; 7.5 FT3	GKP-SR-022 / WS#35104-0	
UN 2912, Radioactive material, low specific activity (LSA-I), 7, Drum	NA	NA	Solid Soil with debris	Ra-226			5.7017E+00	LSA-I	350 LBS; 7.5 FT3	GKP-SR-023 / WS#35104-0	

[illegible]

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1

Library: RA226.LIB

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140919d01A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	17.2 +/- 2.1	0.5	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140919d01

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	0.84 +/- 0.63	1.20		U,G
14596-10-2	Am-241	-1.3 +/- 2.4	4.2		U,G
14913-49-6	Bi-212	2.4 +/- 2.0	3.1		U,G
14733-03-0	Bi-214	17.4 +/- 2.2	0.5	0.5	G,J
10198-40-0	Co-60	0.11 +/- 0.14	0.23		U,G
10045-97-3	Cs-137	0.18 +/- 0.16	0.25		U,G
14683-23-9	Eu-152	2.7 +/- 1.0	1.2		G,SI
15585-10-1	Eu-154	-0.24 +/- 0.79	1.47		U,G
13966-00-2	K-40	7.0 +/- 2.3	2.5	1	M3,G
15100-28-4	Pa-234m	19 +/- 24	39		U,G
15092-94-1	Pb-212	1.64 +/- 0.40	0.47		G
15067-28-4	Pb-214	17.2 +/- 2.1	0.5	0.5	M3,G,J
15065-10-8	Th-234	-0.1 +/- 2.8	4.7	5	U,G
14913-50-9	Tl-208	0.28 +/- 0.16	0.24		G
15117-96-1	U-235	-0.8 +/- 1.0	1.8		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140919d01

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	-200 +/- 150	270		U,G,J
7440-29-1	Th-232	0.84 +/- 0.63	1.20		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Duplicate Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1
Lab ID: 1407417-1DUP

Library: RA226.LIB

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 305 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 140998d02A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	17.5 +/- 2.1	0.4	0.5	G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M - The requested MDC was not met.
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.
W - DER is greater than Warning Limit of 1.42
D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Duplicate Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1DUP

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140998d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	1.36 +/- 0.56	0.87		G,TI
14596-10-2	Am-241	-1.3 +/- 3.3	5.7		U,G
14913-49-6	Bi-212	1.9 +/- 1.7	2.6		U,G
14733-03-0	Bi-214	15.9 +/- 2.6	1.4	0.5	M3,G,J
10198-40-0	Co-60	-0.02 +/- 0.12	0.22		U,G
10045-97-3	Cs-137	0.02 +/- 0.15	0.26		U,G
14683-23-9	Eu-152	1.35 +/- 0.71	0.97		G,SI
15585-10-1	Eu-154	-0.12 +/- 0.70	1.27		U,G
13966-00-2	K-40	7.4 +/- 2.1	2.2	1	M3,G
15100-28-4	Pa-234m	23 +/- 21	33		U,G
15092-94-1	Pb-212	1.30 +/- 0.33	0.41		G
15067-28-4	Pb-214	17.8 +/- 2.2	0.5	0.5	G,J
15065-10-8	Th-234	1.9 +/- 2.8	4.7	5	U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Duplicate Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1DUP

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140998d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14913-50-9	Ti-208	0.35 +/- 0.16	0.23		G
15117-96-1	U-235	0.79 +/- 0.93	1.51		U,G
14255-04-0	Pb-210	-220 +/- 300	530		U,G,J
7440-29-1	Th-232	1.36 +/- 0.56	0.87		G,TI

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1
Lab ID: 1407417-1

Library: RA226.LIB

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 305 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 140919d01A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	17.2 +/- 2.1	0.5	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
T1 - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140919d01

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	0.84 +/- 0.63	1.20		U,G
14596-10-2	Am-241	-1.3 +/- 2.4	4.2		U,G
14913-49-6	Bi-212	2.4 +/- 2.0	3.1		U,G
14733-03-0	Bi-214	17.4 +/- 2.2	0.5	0.5	G,J
10198-40-0	Co-60	0.11 +/- 0.14	0.23		U,G
10045-97-3	Cs-137	0.18 +/- 0.16	0.25		U,G
14683-23-9	Eu-152	2.7 +/- 1.0	1.2		G,SI
15585-10-1	Eu-154	-0.24 +/- 0.79	1.47		U,G
13966-00-2	K-40	7.0 +/- 2.3	2.5	1	M3,G
15100-28-4	Pa-234m	19 +/- 24	39		U,G
15092-94-1	Pb-212	1.64 +/- 0.40	0.47		G
15067-28-4	Pb-214	17.2 +/- 2.1	0.5	0.5	M3,G,J
15065-10-8	Th-234	-0.1 +/- 2.8	4.7	5	U,G
14913-50-9	Ti-208	0.28 +/- 0.16	0.24		G
15117-96-1	U-235	-0.8 +/- 1.0	1.8		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1

Library: HUNTERS_POIN

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140919d01

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	-200 +/- 150	270		U,G,J
7440-29-1	Th-232	0.84 +/- 0.63	1.20		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Duplicate Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1
Lab ID: 1407417-1DUP

Library: RA226.LIB

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 305 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 140998d02A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	17.5 +/- 2.1	0.4	0.5	G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M - The requested MDC was not met.
M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.
W - DER is greater than Warning Limit of 1.42
D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 halflives.
G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Duplicate Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

Client/Project ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1DUP

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140998d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	1.36 +/- 0.56	0.87		G, TI
14596-10-2	Am-241	-1.3 +/- 3.3	5.7		U, G
14913-49-6	Bi-212	1.9 +/- 1.7	2.6		U, G
14733-03-0	Bi-214	15.9 +/- 2.6	1.4	0.5	M3, G, J
10198-40-0	Co-60	-0.02 +/- 0.12	0.22		U, G
10045-97-3	Cs-137	0.02 +/- 0.15	0.26		U, G
14683-23-9	Eu-152	1.35 +/- 0.71	0.97		G, SI
15585-10-1	Eu-154	-0.12 +/- 0.70	1.27		U, G
13966-00-2	K-40	7.4 +/- 2.1	2.2	1	M3, G
15100-28-4	Pa-234m	23 +/- 21	33		U, G
15092-94-1	Pb-212	1.30 +/- 0.33	0.41		G
15067-28-4	Pb-214	17.8 +/- 2.2	0.5	0.5	G, J
15065-10-8	Th-234	1.9 +/- 2.8	4.7	5	U, G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Duplicate Results

Lab Name: ALS Environmental – FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407417-1DUP

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 305 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140998d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14913-50-9	Ti-208	0.35 +/- 0.16	0.23		G
15117-96-1	U-235	0.79 +/- 0.93	1.51		U,G
14255-04-0	Pb-210	-220 +/- 300	530		U,G,J
7440-29-1	Th-232	1.36 +/- 0.56	0.87		G,TI

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M - The requested MDC was not met.

M3 - The requested MDC was not met, but thereported activity is greater than the reported MDC.

W - DER is greater than Warning Limit of 1.42

D - DER is greater than Control Limit of 2.13

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halfives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-7

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 003SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1500	10		
7440-43-9	CADMIUM	10	19	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	580	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-1

Sample Matrix: SOIL

% Moisture: 21.4

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08577.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.42 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	1	42	42	U	
11104-28-2	AROCLOR-1221	1	84	84	U	
11141-16-5	AROCLOR-1232	1	42	42	U	
53469-21-9	AROCLOR-1242	1	42	42	U	
12672-29-6	AROCLOR-1248	1	42	42	U	
11097-69-1	AROCLOR-1254	1	42	42	U	
11096-82-5	AROCLOR-1260	1	180	42		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	248	*	20.9	1186	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	21.4		20.9	102	61 - 120

Data Package ID: PT1407593-1

Organochlorine Pesticides

Method SW8081--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-7

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07094.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00422		0.005	84	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00444		0.005	89	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-7

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0489

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.601		0.75	80	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.44		0.5	88	55 - 108
367-12-4	2-FLUOROPHENOL	0.536		0.75	71	46 - 105
4165-60-0	NITROBENZENE-D5	0.395		0.5	79	53 - 111
4165-62-2	PHENOL-D5	0.58		0.75	77	50 - 109
1718-51-0	TERPHENYL-D14	0.406		0.5	81	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-7

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53287

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.25		0.25	100	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.244		0.25	98	84 - 118
2037-26-5	TOLUENE-D8	0.242		0.25	97	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-7

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 003SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1500	10		
7440-43-9	CADMIUM	10	19	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	580	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-1

Sample Matrix: SOIL

% Moisture: 21.4

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08577.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.42 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	1	42	42	U	
11104-28-2	AROCLOR-1221	1	84	84	U	
11141-16-5	AROCLOR-1232	1	42	42	U	
53469-21-9	AROCLOR-1242	1	42	42	U	
12672-29-6	AROCLOR-1248	1	42	42	U	
11097-69-1	AROCLOR-1254	1	42	42	U	
11096-82-5	AROCLOR-1260	1	180	42		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	248	*	20.9	1186	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	21.4		20.9	102	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1
Lab ID: 1407593-7

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07094.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00422		0.005	84	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00444		0.005	89	57 - 128

Data Package ID: PT1407593-2

GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-7

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0489

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.601		0.75	80	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.44		0.5	88	55 - 108
367-12-4	2-FLUOROPHENOL	0.536		0.75	71	46 - 105
4165-60-0	NITROBENZENE-D5	0.395		0.5	79	53 - 111
4165-62-2	PHENOL-D5	0.58		0.75	77	50 - 109
1718-51-0	TERPHENYL-D14	0.406		0.5	81	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW1

Lab ID: 1407593-7

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53287

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.25		0.25	100	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.244		0.25	98	84 - 118
2037-26-5	TOLUENE-D8	0.242		0.25	97	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2 Lab ID: 1407417-2	Sample Matrix: SOIL Prep SOP: PAI 739 Rev 11 Date Collected: 16-Jul-14 Date Prepared: 26-Jul-14 Date Analyzed: 16-Aug-14	Prep Batch: GS140724-1 QCBatchID: GS140724-1-1 Run ID: GS140724-1A Count Time: 30 minutes Report Basis: Dry Weight	Final Aliquot: 246 g Prep Basis: Dry Weight Moisture(%): NA Result Units: pCi/g File Name: 140997d02A
----------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	970 +/- 110	0	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13
Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-2

Library: HUNTERS_POIN

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 246 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 140997d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	-0.3 +/- 3.4	5.7		U,G
14596-10-2	Am-241	3 +/- 24	40		U,G
14913-49-6	Bi-212	2 +/- 11	18		U,G
14733-03-0	Bi-214	940 +/- 110	0	0.5	M3,G,J
10198-40-0	Co-60	-0.19 +/- 0.89	1.50		U,G
10045-97-3	Cs-137	-0.4 +/- 1.3	2.1		U,G
14683-23-9	Eu-152	41 +/- 14	20		G,NQ
15585-10-1	Eu-154	2.6 +/- 4.9	8.2		U,G
13966-00-2	K-40	5.9 +/- 9.1	15.0	1	U,M,G
15100-28-4	Pa-234m	-40 +/- 150	250		U,G
15092-94-1	Pb-212	2.0 +/- 1.7	2.8		U,G
15067-28-4	Pb-214	990 +/- 120	0	0.5	M3,G,J
15065-10-8	Th-234	4 +/- 20	33	5	U,M,G
14913-50-9	Tl-208	0.08 +/- 0.86	2.03		U,G
15117-96-1	U-235	-0.1 +/- 6.5	10.8		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-2

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 246 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140997d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	1500 +/- 2100	3500		U,G,J
7440-29-1	Th-232	-0.3 +/- 3.4	5.7		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2
Lab ID: 1407417-3

Library: RA226.LIB

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 241 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 141328d04A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	44.4 +/- 5.3	0.9	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental – FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-3

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 241 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 141328d04

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	1.3 +/- 1.2	1.9		U,G
14596-10-2	Am-241	0.1 +/- 1.9	3.2		U,G
14913-49-6	Bi-212	3.7 +/- 3.7	6.0		U,G
14733-03-0	Bi-214	40.7 +/- 6.2	3.8	0.5	M3,G,J
10198-40-0	Co-60	0.25 +/- 0.35	0.58		U,G
10045-97-3	Cs-137	-0.03 +/- 0.42	0.73		U,G
14683-23-9	Eu-152	3.3 +/- 2.2	3.4		U,G
15585-10-1	Eu-154	-0.1 +/- 1.6	2.8		U,G
13966-00-2	K-40	9.7 +/- 5.0	7.3	1	M3,G
15100-28-4	Pa-234m	4 +/- 49	85		U,G
15092-94-1	Pb-212	2.28 +/- 0.58	0.75		G
15067-28-4	Pb-214	44.8 +/- 5.4	0.9	0.5	M3,G,J
15065-10-8	Th-234	3.9 +/- 3.8	6.1	5	U,M,G
14913-50-9	Tl-208	0.68 +/- 0.32	0.48		G
15117-96-1	U-235	-0.2 +/- 1.4	2.5		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-3

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 241 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 141328d04

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	42 +/- 48	78		U,G,J
7440-29-1	Th-232	1.3 +/- 1.2	1.9		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2
Lab ID: 1407417-2

Library: RA226.LIB

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 246 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 140997d02A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	970 +/- 110	0	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental – FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-2

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 246 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140997d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	-0.3 +/- 3.4	5.7		U,G
14596-10-2	Am-241	3 +/- 24	40		U,G
14913-49-6	Bi-212	2 +/- 11	18		U,G
14733-03-0	Bi-214	940 +/- 110	0	0.5	M3,G,J
10198-40-0	Co-60	-0.19 +/- 0.89	1.50		U,G
10045-97-3	Cs-137	-0.4 +/- 1.3	2.1		U,G
14683-23-9	Eu-152	41 +/- 14	20		G,NQ
15585-10-1	Eu-154	2.6 +/- 4.9	8.2		U,G
13966-00-2	K-40	5.9 +/- 9.1	15.0	1	U,M,G
15100-28-4	Pa-234m	-40 +/- 150	250		U,G
15092-94-1	Pb-212	2.0 +/- 1.7	2.8		U,G
15067-28-4	Pb-214	990 +/- 120	0	0.5	M3,G,J
15065-10-8	Th-234	4 +/- 20	33	5	U,M,G
14913-50-9	Tl-208	0.08 +/- 0.86	2.03		U,G
15117-96-1	U-235	-0.1 +/- 6.5	10.8		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-2

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 246 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140997d02

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	1500 +/- 2100	3500		U,G,J
7440-29-1	Th-232	-0.3 +/- 3.4	5.7		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-3

Library: RA226.LIB

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11.

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 241 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 141328d04A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	44.4 +/- 5.3	0.9	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-3

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 241 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 141328d04

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	1.3 +/- 1.2	1.9		U,G
14596-10-2	Am-241	0.1 +/- 1.9	3.2		U,G
14913-49-6	Bi-212	3.7 +/- 3.7	6.0		U,G
14733-03-0	Bi-214	40.7 +/- 6.2	3.8	0.5	M3,G,J
10198-40-0	Co-60	0.25 +/- 0.35	0.58		U,G
10045-97-3	Cs-137	-0.03 +/- 0.42	0.73		U,G
14683-23-9	Eu-152	3.3 +/- 2.2	3.4		U,G
15585-10-1	Eu-154	-0.1 +/- 1.6	2.8		U,G
13966-00-2	K-40	9.7 +/- 5.0	7.3	1	M3,G
15100-28-4	Pa-234m	4 +/- 49	85		U,G
15092-94-1	Pb-212	2.28 +/- 0.58	0.75		G
15067-28-4	Pb-214	44.8 +/- 5.4	0.9	0.5	M3,G,J
15065-10-8	Th-234	3.9 +/- 3.8	6.1	5	U,M,G
14913-50-9	Tl-208	0.68 +/- 0.32	0.48		G
15117-96-1	U-235	-0.2 +/- 1.4	2.5		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407417-3

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 241 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 141328d04

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	42 +/- 48	78		U,G,J
7440-29-1	Th-232	1.3 +/- 1.2	1.9		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407593-8

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 004SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1400	10		
7440-43-9	CADMIUM	10	16	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	1100	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1.4	1		

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407593-2

Sample Matrix: SOIL

% Moisture: 18.8

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08578.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.04 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	4	160	160	U	
11104-28-2	AROCLOR-1221	4	330	330	U	
11141-16-5	AROCLOR-1232	4	160	160	U	
53469-21-9	AROCLOR-1242	4	160	160	U	
12672-29-6	AROCLOR-1248	4	160	160	U	
11097-69-1	AROCLOR-1254	4	160	160	U	
11096-82-5	AROCLOR-1260	4	1300	160		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	48.5	*	20.5	237	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	21		20.5	103	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2
Lab ID: 1407593-8

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07095.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00444		0.005	89	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00451		0.005	90	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407593-8

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0490

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.584		0.75	78	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.424		0.5	85	55 - 108
367-12-4	2-FLUOROPHENOL	0.515		0.75	69	46 - 105
4165-60-0	NITROBENZENE-D5	0.38		0.5	76	53 - 111
4165-62-2	PHENOL-D5	0.55		0.75	73	50 - 109
1718-51-0	TERPHENYL-D14	0.424		0.5	85	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2
Lab ID: 1407593-8

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53288

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.259		0.25	104	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.238		0.25	95	84 - 118
2037-26-5	TOLUENE-D8	0.242		0.25	97	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407593-8

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 004SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1400	10		
7440-43-9	CADMIUM	10	16	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	1100	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1.4	1		

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407593-2

Sample Matrix: SOIL

% Moisture: 18.8

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08578.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.04 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	4	160	160	U	
11104-28-2	AROCLOR-1221	4	330	330	U	
11141-16-5	AROCLOR-1232	4	160	160	U	
53469-21-9	AROCLOR-1242	4	160	160	U	
12672-29-6	AROCLOR-1248	4	160	160	U	
11097-69-1	AROCLOR-1254	4	160	160	U	
11096-82-5	AROCLOR-1260	4	1300	160		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	48.5	*	20.5	237	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	21		20.5	103	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2

Lab ID: 1407593-8

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07095.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00444		0.005	89	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00451		0.005	90	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2
Lab ID: 1407593-8

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE
% Moisture: N/A
Date Collected: 28-Jul-14
Date Extracted: 07-Aug-14
Date Analyzed: 11-Aug-14
Prep Method: SW3520 Rev C

Prep Batch: EX140807-8
QCBatchID: EX140807-8-1
Run ID: SV140811-1
Cleanup: NONE
Basis: As Received
File Name: N0490

Analyst: Joe Kostelnik
Sample Aliquot: 100 ML
Final Volume: 1 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.584		0.75	78	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.424		0.5	85	55 - 108
367-12-4	2-FLUOROPHENOL	0.515		0.75	69	46 - 105
4165-60-0	NITROBENZENE-D5	0.38		0.5	76	53 - 111
4165-62-2	PHENOL-D5	0.55		0.75	73	50 - 109
1718-51-0	TERPHENYL-D14	0.424		0.5	85	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW2
Lab ID: 1407593-8

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53288

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.259		0.25	104	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.238		0.25	95	84 - 118
2037-26-5	TOLUENE-D8	0.242		0.25	97	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 005SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1800	10		
7440-43-9	CADMIUM	10	19	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	1200	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-3

Sample Matrix: SOIL

% Moisture: 15.8

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08579.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.23 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	1	39	39	U	
11104-28-2	AROCLOR-1221	1	79	79	U	
11141-16-5	AROCLOR-1232	1	39	39	U	
53469-21-9	AROCLOR-1242	1	39	39	U	
12672-29-6	AROCLOR-1248	1	39	39	U	
11097-69-1	AROCLOR-1254	1	66	39		
11096-82-5	AROCLOR-1260	1	59	39		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	41.5	*	19.7	211	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	20.9		19.7	106	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07096.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00461		0.005	92	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00465		0.005	93	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0491

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.626		0.75	83	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.435		0.5	87	55 - 108
367-12-4	2-FLUOROPHENOL	0.508		0.75	68	46 - 105
4165-60-0	NITROBENZENE-D5	0.385		0.5	77	53 - 111
4165-62-2	PHENOL-D5	0.563		0.75	75	50 - 109
1718-51-0	TERPHENYL-D14	0.422		0.5	84	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

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GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53289

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.254		0.25	101	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.242		0.25	97	84 - 118
2037-26-5	TOLUENE-D8	0.248		0.25	99	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 005SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1800	10		
7440-43-9	CADMIUM	10	19	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	1200	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

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PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-3

Sample Matrix: SOIL

% Moisture: 15.8

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08579.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.23 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	1	39	39	U	
11104-28-2	AROCLOR-1221	1	79	79	U	
11141-16-5	AROCLOR-1232	1	39	39	U	
53469-21-9	AROCLOR-1242	1	39	39	U	
12672-29-6	AROCLOR-1248	1	39	39	U	
11097-69-1	AROCLOR-1254	1	66	39		
11096-82-5	AROCLOR-1260	1	59	39		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	41.5	*	19.7	211	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	20.9		19.7	106	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07096.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00461		0.005	92	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00465		0.005	93	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

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LIMS Version: 6.721

GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0491

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.626		0.75	83	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.435		0.5	87	55 - 108
367-12-4	2-FLUOROPHENOL	0.508		0.75	68	46 - 105
4165-60-0	NITROBENZENE-D5	0.385		0.5	77	53 - 111
4165-62-2	PHENOL-D5	0.563		0.75	75	50 - 109
1718-51-0	TERPHENYL-D14	0.422		0.5	84	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

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GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW3

Lab ID: 1407593-9

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53289

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.254		0.25	101	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.242		0.25	97	84 - 118
2037-26-5	TOLUENE-D8	0.248		0.25	99	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4
Lab ID: 1407417-4

Library: RA226.LIB

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 234 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 140887d05A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	1010 +/- 120	0	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407417-4

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 234 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140887d05

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	3.7 +/- 4.4	7.2		U,G
14596-10-2	Am-241	-3 +/- 20	32		U,G
14913-49-6	Bi-212	-4 +/- 10	17		U,G
14733-03-0	Bi-214	970 +/- 110	0	0.5	M3,G,J
10198-40-0	Co-60	-0.16 +/- 0.81	1.37		U,G
10045-97-3	Cs-137	1.0 +/- 1.1	1.7		U,G
14683-23-9	Eu-152	-20 +/- 12	20		U,G
15585-10-1	Eu-154	1.3 +/- 4.5	7.5		U,G
13966-00-2	K-40	8.4 +/- 7.0	11.3	1	U,M,G
15100-28-4	Pa-234m	-50 +/- 140	230		U,G
15092-94-1	Pb-212	3.8 +/- 2.0	3.1		G
15067-28-4	Pb-214	1040 +/- 120	0	0.5	M3,G,J
15065-10-8	Th-234	-8 +/- 18	30	5	U,M,G
14913-50-9	Tl-208	0.92 +/- 0.94	1.53		U,G
15117-96-1	U-235	-3.7 +/- 5.8	9.7		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 halflives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407417-4

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QC Batch ID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 234 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140887d05

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	-1400 +/- 1500	2500		U,G,J
7440-29-1	Th-232	3.7 +/- 4.4	7.2		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407417-4

Library: RA226.LIB

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 234 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140887d05A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	1010 +/- 120	0	0.5	M3,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental – FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407417-4

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 234 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140887d05

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	3.7 +/- 4.4	7.2		U,G
14596-10-2	Am-241	-3 +/- 20	32		U,G
14913-49-6	Bi-212	-4 +/- 10	17		U,G
14733-03-0	Bi-214	970 +/- 110	0	0.5	M3,G,J
10198-40-0	Co-60	-0.16 +/- 0.81	1.37		U,G
10045-97-3	Cs-137	1.0 +/- 1.1	1.7		U,G
14683-23-9	Eu-152	-20 +/- 12	20		U,G
15585-10-1	Eu-154	1.3 +/- 4.5	7.5		U,G
13966-00-2	K-40	8.4 +/- 7.0	11.3	1	U,M,G
15100-28-4	Pa-234m	-50 +/- 140	230		U,G
15092-94-1	Pb-212	3.8 +/- 2.0	3.1		G
15067-28-4	Pb-214	1040 +/- 120	0	0.5	M3,G,J
15065-10-8	Th-234	-8 +/- 18	30	5	U,M,G
14913-50-9	Tl-208	0.92 +/- 0.94	1.53		U,G
15117-96-1	U-235	-3.7 +/- 5.8	9.7		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407417-4

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 234 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140887d05

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	-1400 +/- 1500	2500		U,G,J
7440-29-1	Th-232	3.7 +/- 4.4	7.2		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 006SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	190	10		
7440-43-9	CADMIUM	10	38	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	7100	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-4

Sample Matrix: SOIL

% Moisture: 17.2

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140812-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08565.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.34 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCOLOR-1016	1	40	40	U	
11104-28-2	AROCOLOR-1221	1	80	80	U	
11141-16-5	AROCOLOR-1232	1	40	40	U	
53469-21-9	AROCOLOR-1242	1	40	40	U	
12672-29-6	AROCOLOR-1248	1	40	40	U	
11097-69-1	AROCOLOR-1254	1	40	40	U	
11096-82-5	AROCOLOR-1260	1	200	40		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	26	*	19.9	131	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	18.8		19.9	94	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07097.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00481		0.005	96	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00465		0.005	93	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0492

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.621		0.75	83	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.457		0.5	91	55 - 108
367-12-4	2-FLUOROPHENOL	0.543		0.75	72	46 - 105
4165-60-0	NITROBENZENE-D5	0.41		0.5	82	53 - 111
4165-62-2	PHENOL-D5	0.591		0.75	79	50 - 109
1718-51-0	TERPHENYL-D14	0.432		0.5	86	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

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GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53290

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.249		0.25	100	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.244		0.25	98	84 - 118
2037-26-5	TOLUENE-D8	0.25		0.25	100	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

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TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 006SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	190	10		
7440-43-9	CADMIUM	10	38	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	7100	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-4

Sample Matrix: SOIL

% Moisture: 17.2

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140812-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08565.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.34 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	1	40	40	U	
11104-28-2	AROCLOR-1221	1	80	80	U	
11141-16-5	AROCLOR-1232	1	40	40	U	
53469-21-9	AROCLOR-1242	1	40	40	U	
12672-29-6	AROCLOR-1248	1	40	40	U	
11097-69-1	AROCLOR-1254	1	40	40	U	
11096-82-5	AROCLOR-1260	1	200	40		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	26	*	19.9	131	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	18.8		19.9	94	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07097.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00481		0.005	96	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00465		0.005	93	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0492

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.621		0.75	83	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.457		0.5	91	55 - 108
367-12-4	2-FLUOROPHENOL	0.543		0.75	72	46 - 105
4165-60-0	NITROBENZENE-D5	0.41		0.5	82	53 - 111
4165-62-2	PHENOL-D5	0.591		0.75	79	50 - 109
1718-51-0	TERPHENYL-D14	0.432		0.5	86	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

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GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW4

Lab ID: 1407593-10

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53290

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.249		0.25	100	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.244		0.25	98	84 - 118
2037-26-5	TOLUENE-D8	0.25		0.25	100	85 - 115

Data Package ID: VL1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407417-5

Library: RA226.LIB

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 252 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140898d07A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	7.49 +/- 0.96	0.44	0.5	G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental – FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407417-5

Library: HUNTERS_POIN

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11
Date Collected: 16-Jul-14
Date Prepared: 26-Jul-14
Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1
QCBatchID: GS140724-1-1
Run ID: GS140724-1A
Count Time: 30 minutes
Report Basis: Dry Weight

Final Aliquot: 252 g
Prep Basis: Dry Weight
Moisture(%): NA
Result Units: pCi/g
File Name: 140898d07

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	8.6 +/- 1.3	1.0		G
14596-10-2	Am-241	0.3 +/- 1.4	2.3		U,G
14913-49-6	Bi-212	9.8 +/- 3.3	4.1		G
14733-03-0	Bi-214	7.1 +/- 1.0	0.4	0.5	G,J
10198-40-0	Co-60	0.07 +/- 0.13	0.23		U,G
10045-97-3	Cs-137	0.04 +/- 0.16	0.28		U,G
14683-23-9	Eu-152	0.41 +/- 0.78	1.34		U,G
15585-10-1	Eu-154	-0.86 +/- 0.66	1.38		U,G
13966-00-2	K-40	8.3 +/- 2.5	2.5	1	M3,G
15100-28-4	Pa-234m	16 +/- 19	32		U,G
15092-94-1	Pb-212	9.5 +/- 1.2	0.4		G
15067-28-4	Pb-214	7.8 +/- 1.0	0.5	0.5	G,J
15065-10-8	Th-234	8.2 +/- 3.9	5.9	5	M3,G,TI
14913-50-9	Tl-208	2.97 +/- 0.47	0.27		G
15117-96-1	U-235	-0.32 +/- 0.91	1.58		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.
LT - Result is less than Requested MDC, greater than sample specific MDC.
M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.
M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty
MDC - Minimum Detectable Concentration
BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.
SI - Nuclide identification and/or quantitation is tentative.
TI - Nuclide identification is tentative.
R - Nuclide has exceeded 8 half-lives.
G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407417-5

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 252 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140898d07

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	15 +/- 30	50		U,G,J
7440-29-1	Th-232	8.6 +/- 1.3	1.0		G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

T1 - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407417-5

Library: RA226.LIB

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 252 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140898d07A

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
13982-63-3	Ra-226	7.49 +/- 0.96	0.44	0.5	G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407417

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407417-5

Library: HUNTERS_POIN

Sample Matrix: SOIL

Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 252 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140898d07

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14331-83-0	Ac-228	8.6 +/- 1.3	1.0		G
14596-10-2	Am-241	0.3 +/- 1.4	2.3		U,G
14913-49-6	Bi-212	9.8 +/- 3.3	4.1		G
14733-03-0	Bi-214	7.1 +/- 1.0	0.4	0.5	G,J
10198-40-0	Co-60	0.07 +/- 0.13	0.23		U,G
10045-97-3	Cs-137	0.04 +/- 0.16	0.28		U,G
14683-23-9	Eu-152	0.41 +/- 0.78	1.34		U,G
15585-10-1	Eu-154	-0.86 +/- 0.66	1.38		U,G
13966-00-2	K-40	8.3 +/- 2.5	2.5	1	M3,G
15100-28-4	Pa-234m	16 +/- 19	32		U,G
15092-94-1	Pb-212	9.5 +/- 1.2	0.4		G
15067-28-4	Pb-214	7.8 +/- 1.0	0.5	0.5	G,J
15065-10-8	Th-234	8.2 +/- 3.9	5.9	5	M3,G,TI
14913-50-9	Tl-208	2.97 +/- 0.47	0.27		G
15117-96-1	U-235	-0.32 +/- 0.91	1.58		U,G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Data Package ID: GSS1407417-1

Gamma Spectroscopy Results

PAI 713 Rev 13

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1407417
Client Name: Tidewater, Inc.
ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407417-5

Library: HUNTERS_POIN

Sample Matrix: SOIL
Prep SOP: PAI 739 Rev 11

Date Collected: 16-Jul-14

Date Prepared: 26-Jul-14

Date Analyzed: 16-Aug-14

Prep Batch: GS140724-1

QCBatchID: GS140724-1-1

Run ID: GS140724-1A

Count Time: 30 minutes

Report Basis: Dry Weight

Final Aliquot: 252 g

Prep Basis: Dry Weight

Moisture(%): NA

Result Units: pCi/g

File Name: 140898d07

CASNO	Target Nuclide	Result +/- 2 s TPU	MDC	Requested MDC	Lab Qualifier
14255-04-0	Pb-210	15 +/- 30	50		U,G,J
7440-29-1	Th-232	8.6 +/- 1.3	1.0		G

Comments:

Qualifiers/Flags:

U - Result is less than the sample specific MDC or less than the associated TPU.

Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.

Y2 - Chemical Yield outside default limits.

LT - Result is less than Requested MDC, greater than sample specific MDC.

M3 - The requested MDC was not met, but the reported activity is greater than the reported MDC.

M - The requested MDC was not met.

SQ - Spectral quality prevents accurate quantitation.

SI - Nuclide identification and/or quantitation is tentative.

TI - Nuclide identification is tentative.

R - Nuclide has exceeded 8 half-lives.

G - Sample density differs by more than 15% of LCS density.

Abbreviations:

TPU - Total Propagated Uncertainty

MDC - Minimum Detectable Concentration

BDL - Below Detection Limit

Data Package ID: GSS1407417-1

TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-11

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 007SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1800	10		
7440-43-9	CADMIUM	10	36	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	490	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: im1407593-1

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-5

Sample Matrix: SOIL

% Moisture: 14.8

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08580.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.36 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	2	77	77	U	
11104-28-2	AROCLOR-1221	2	150	150	U	
11141-16-5	AROCLOR-1232	2	77	77	U	
53469-21-9	AROCLOR-1242	2	77	77	U	
12672-29-6	AROCLOR-1248	2	77	77	U	
11097-69-1	AROCLOR-1254	2	890	77		
11096-82-5	AROCLOR-1260	2	420	77		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	55.2	*	19.3	286	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	18.2		19.3	94	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-11

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07098.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00443		0.005	89	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00456		0.005	91	57 - 128

Data Package ID: PT1407593-2

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

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GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5
Lab ID: 1407593-11

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE
% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0493

Analyst: Joe Kostelnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.588		0.75	78	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.432		0.5	86	55 - 108
367-12-4	2-FLUOROPHENOL	0.526		0.75	70	46 - 105
4165-60-0	NITROBENZENE-D5	0.396		0.5	79	53 - 111
4165-62-2	PHENOL-D5	0.564		0.75	75	50 - 109
1718-51-0	TERPHENYL-D14	0.445		0.5	89	34 - 139

Data Package ID: SV1407593-2

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-11

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53291

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.254		0.25	102	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.245		0.25	98	84 - 118
2037-26-5	TOLUENE-D8	0.244		0.25	98	85 - 115

Data Package ID: VL1407593-1

TCLP ICPMS Metals

Method SW6020 Revision A--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-11

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 08-Aug-14

Prep Method: SW3010 Rev A

Prep Batch: IP140807-1

QCBatchID: IP140807-1-2

Run ID: IM140808-10A1

Cleanup: NONE

Basis: As Received

File Name: 007SMPL_

Analyst: Ross Miller

Sample Aliquot: 5 G

Final Volume: 50 ML

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
7440-38-2	ARSENIC	10	20	20	U	
7440-39-3	BARIUM	10	1800	10		
7440-43-9	CADMIUM	10	36	3		
7440-47-3	CHROMIUM	10	100	100	U	
7439-92-1	LEAD	10	490	5		
7782-49-2	SELENIUM	10	10	10	U	
7440-22-4	SILVER	10	1	1	U	

Data Package ID: *im1407593-1*

Date Printed: Thursday, August 14, 2014

ALS Environmental -- FC

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LIMS Version: 6.721

PCBs

Method SW8082

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-5

Sample Matrix: SOIL

% Moisture: 14.8

Date Collected: 28-Jul-14

Date Extracted: 08-Aug-14

Date Analyzed: 13-Aug-14

Prep Method: SW3540 Rev C

Prep Batch: EX140808-3

QCBatchID: EX140808-3-1

Run ID: PT140813-11

Cleanup: SW3665

Basis: Dry Weight

File Name: 08580.dat

Analyst: Dan Sheneman

Sample Aliquot: 30.36 G

Final Volume: 10 ML

Result Units: UG/KG

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
12674-11-2	AROCLOR-1016	2	77	77	U	
11104-28-2	AROCLOR-1221	2	150	150	U	
11141-16-5	AROCLOR-1232	2	77	77	U	
53469-21-9	AROCLOR-1242	2	77	77	U	
12672-29-6	AROCLOR-1248	2	77	77	U	
11097-69-1	AROCLOR-1254	2	890	77		
11096-82-5	AROCLOR-1260	2	420	77		

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	55.2	*	19.3	286	56 - 130
877-09-8	TETRACHLORO-M-XYLENE	18.2		19.3	94	61 - 120

Data Package ID: PT1407593-1

Date Printed: Monday, August 18, 2014

ALS Environmental -- FC

LIMS Version: 6.721

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Organochlorine Pesticides

Method SW8081--TCLP Leachate

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-11

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 10-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140810-2

QCBatchID: EX140810-2-1

Run ID: PT140811-10

Cleanup: NONE

Basis: As Received

File Name: 07098.dat

Analyst: Dan Sheneman

Sample Aliquot: 100 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
58-89-9	GAMMA-BHC (LINDANE)	1	0.0005	0.0005	U	
76-44-8	HEPTACHLOR	1	0.0005	0.0005	U	
1024-57-3	HEPTACHLOR EPOXIDE	1	0.0005	0.0005	U	
5103-74-2	GAMMA-CHLORDANE	1	0.0005	0.0005	U	
5103-71-9	ALPHA-CHLORDANE	1	0.0005	0.0005	U	
72-20-8	ENDRIN	1	0.0005	0.0005	U	
72-43-5	METHOXYCHLOR	1	0.0025	0.0025	U	
8001-35-2	TOXAPHENE	1	0.025	0.025	U	
12789-03-6	CHLORDANE	1	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
2051-24-3	DECACHLOROBIPHENYL	0.00443		0.005	89	10 - 118
877-09-8	TETRACHLORO-M-XYLENE	0.00456		0.005	91	57 - 128

Data Package ID: PT1407593-2

GC/MS Semi-volatiles

Method SW8270 Revision D--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-11

LEACH DATE: 8/6/2014

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 07-Aug-14

Date Analyzed: 11-Aug-14

Prep Method: SW3520 Rev C

Prep Batch: EX140807-8

QCBatchID: EX140807-8-1

Run ID: SV140811-1

Cleanup: NONE

Basis: As Received

File Name: N0493

Analyst: Joe Kostechnik

Sample Aliquot: 100 ML

Final Volume: 1 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
110-86-1	PYRIDINE	1	0.1	0.1	U	
106-46-7	1,4-DICHLOROBENZENE	1	0.1	0.1	U	
95-48-7	2-METHYLPHENOL	1	0.1	0.1	U	
108-39-4	3+4-METHYLPHENOL	1	0.1	0.1	U	
67-72-1	HEXACHLOROETHANE	1	0.1	0.1	U	
98-95-3	NITROBENZENE	1	0.1	0.1	U	
87-68-3	HEXACHLOROBUTADIENE	1	0.1	0.1	U	
88-06-2	2,4,6-TRICHLOROPHENOL	1	0.1	0.1	U	
95-95-4	2,4,5-TRICHLOROPHENOL	1	0.1	0.1	U	
121-14-2	2,4-DINITROTOLUENE	1	0.1	0.1	U	
118-74-1	HEXACHLOROBENZENE	1	0.1	0.1	U	
87-86-5	PENTACHLOROPHENOL	1	0.2	0.2	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
118-79-6	2,4,6-TRIBROMOPHENOL	0.588		0.75	78	42 - 117
321-60-8	2-FLUOROBIPHENYL	0.432		0.5	86	55 - 108
367-12-4	2-FLUOROPHENOL	0.526		0.75	70	46 - 105
4165-60-0	NITROBENZENE-D5	0.396		0.5	79	53 - 111
4165-62-2	PHENOL-D5	0.564		0.75	75	50 - 109
1718-51-0	TERPHENYL-D14	0.445		0.5	89	34 - 139

Data Package ID: SV1407593-2

GC/MS Volatiles

Method SW8260_25 Revision C--TCLP Leachate Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1407593

Client Name: Tidewater, Inc.

ClientProject ID: Great Kills Park N303-540

Field ID: GKP-SR-IDW5

Lab ID: 1407593-11

Sample Matrix: LEACHATE

% Moisture: N/A

Date Collected: 28-Jul-14

Date Extracted: 05-Aug-14

Date Analyzed: 05-Aug-14

Prep Method: SW5030 Rev C

Prep Batch: VL140805-3

QCBatchID: VL140805-3-1

Run ID: VL140805-3A

Cleanup: NONE

Basis: As Received

File Name: C53291

Analyst: Tyler Knaebel

Sample Aliquot: 10 ML

Final Volume: 10 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	RptLimit/ LOQ	Result Qualifier	EPA Qualifier
75-01-4	VINYL CHLORIDE	10	0.01	0.01	U	
75-35-4	1,1-DICHLOROETHENE	10	0.01	0.01	U	
78-93-3	2-BUTANONE	10	0.1	0.1	U	
67-66-3	CHLOROFORM	10	0.01	0.01	U	
56-23-5	CARBON TETRACHLORIDE	10	0.01	0.01	U	
107-06-2	1,2-DICHLOROETHANE	10	0.01	0.01	U	
71-43-2	BENZENE	10	0.01	0.01	U	
79-01-6	TRICHLOROETHENE	10	0.01	0.01	U	
127-18-4	TETRACHLOROETHENE	10	0.01	0.01	U	
108-90-7	CHLOROBENZENE	10	0.01	0.01	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	0.254		0.25	102	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	0.245		0.25	98	84 - 118
2037-26-5	TOLUENE-D8	0.244		0.25	98	85 - 115

Data Package ID: VL1407593-1