

June 22, 2017

Olivia Yu Environmental Specialist New Mexico Oil Conservation Division, District 1 1625 N. French Drive Hobbs, New Mexico 88240

Re: Proposed Work Plan for Site Characterization Dolly No. 1 Facility Flowline Release Bagley North Oil Field, Lea County, New Mexico NW1/4 NWSE1/4, Sec. 17, T11S, R33E NMOCD Case No. 1R-4705

APPROVED By Olivia Yu at 9:24 am, Jul 03, 2017

> NMOCD approves of the proposed additional delineation plan for 1RP-4705. Permissible levels of 250 mg/kg chlorides must be obtained and maintained for 10 ft. further in depth. BTEX and TPH permissible levels must be obtained and maintained for a minimum of 2 ft. further in depth. All laboratory analyses must have accompanying field data.

Dear Ms. Yu:

On behalf of Jay Management, LLC (Jay Management), Timberwolf Environmental, LLC (Timberwolf) prepared this work plan for site characterization at the Dolly No. 1 (Site) to assess impacts related to a recent flowline release. The Site is located in the Bagley North Oil Field approximately 4.9 miles southeast of Caprock, Lea County, New Mexico (Figures 1 and 2). The release response actions, initial site assessment, and the site characterization work plan are discussed below.

Site Setting

The Site consists of a wellhead, one above-ground oil storage tank, one above-ground produced water tank, and one heater treater.

The surrounding area is characterized as flat to slightly sloping rural land used for cattle grazing and oil and gas production. According the United States Department of Agriculture – Natural Resources Conservation Service web soil survey of Lea County, New Mexico, soils at the Site are mapped as the Kimbrough – Lea complex, 0 to 3 percent slopes (KU). This soil type consists of gravelly loam in the upper 3 inches, loam from 3 to 10 inches, and underlain by cemented material to a depth of 80 inches.

Release Response Actions

The release occurred on 05/19/17 from a faulty nipple at the junction of the flowline and trunkline. An estimated 30 to 50 barrels (bbl) of fluids were released. Jay Management repaired the faulty nipple and recovered free fluids from the ground surface. Also, heavily impacted surface soil was scraped and stockpiled to the south of the trunkline corridor. Written notification of the release was made to the New Mexico Oil Conservation Division (OCD) on 05/19/17; a copy of Form C-141 is attached.

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Initial Assessment

On 05/22/17, Timberwolf personnel mobilized to the Site to map the apparent release impact area and obtain soil samples to assess the magnitude of the impacts (Figure 3). The excavation at the point of release (flowline/trunkline junction) remained open where free fluids accumulated. The release traveled south and east mostly following a two-track road; the release encompassed an irregularly shaped area of approximately 1.15 acres. Site conditions are documented in the attached Photographic Log (Photographs 1 through 6).

Soil Sampling

On 05/22/17, Timberwolf personnel collected soil samples from five (5) boreholes and one (1) sidewall sample (from the excavation at the point of release). The sample locations are shown on the Sample Location and Release Area Map (Figure 3) and summarized in Table 1.

Soil Boring	Location – Purpose
SB1	Collected from the excavation sidewall at the point of release to evaluate remediation efforts
SB2, SB3, SB4, SB5, and SB6	Collected within the release area to further evaluate remediation efforts within the main body of release

Table 1.	Soil Sample	Locations a	nd Purpose
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All samples were collected using a pick-ax and shovel from the 0 to 1 feet below ground surface (ft bgs) within the spill area and 2 ft bgs at the point of release. Deeper samples were unobtainable with hand tools due to refusal from the rocky/cemented soils.

The soil samples were placed in laboratory-provided sample containers, stored on ice, and transported under proper chain-of-custody protocol to the TestAmerica Laboratories in Denver, Colorado. The laboratory reports and chain-of-custody documents are attached.

Site-Specific Cleanup Criteria

The New Mexico Oil Conservation Division (NMOCD) has established remediation action levels for soils impacted by oilfield products or wastes, which are documented in the *Guidelines for Remediation of Leaks, Spills and Releases*. The closure criteria utilizes a ranking system that scores the potential to contaminate based upon a site's distance to water resources. The ranking system is summarized in Table 2.

Category	Distance to Resource (feet)	Score
Depth to groundwater	< 50	20
	50 to 99	10
	> 100	0
Mater wellback protection	< 200	20
Water wellhead protection	> 200	0
	< 200	20
Surface water protection	200 to 1,000	10
	> 1,000	0

Table 2. NMOCD Ranking System



Sites receive a score from each category. The three (3) scores are summed to reach a total ranking score, which provides site-specific remediation action levels.

Based on prior environmental drilling activities in the Bagley Field, the upper groundwater-bearing unit is expected to be encountered at approximately 40 ft bgs, which results in a score of 20. No surface water bodies were identified within 1,000 ft of the Site, which results in a score of zero (0). No water wellheads are located within 200 ft of the Site, which results in a score of zero (0). Therefore, the total ranking score at the Site is 20. Based on the NMOCD criteria, the site-specific cleanup criteria are presented in Table 3.

Constituent	Total Ranking Score					
Constituent	> 19	10-19	0-9			
	Corresponding Cleanup Criteria (mg/kg)					
Benzene	10	10	10			
Total BTEX	50	50	50			
ТРН	100	1,000	5,000			
Chlorides	250	500	1,000			

Table 3. OCD Cleanup Criteria by Total Ranking Score

BTEX – benzene, toluene, ethylbenzene and xylenes TPH – total petroleum hydrocarbons mg/kg – milligrams per kilogram

Bold - scores utilized for the Site

Analysis of Soil Samples

The soil samples were analyzed for total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylenes (BTEX), and chloride. Analytical methods are documented in the attached laboratory reports. Soil analytical results are shown in Table 4.

Semple ID ¹	ТРН	Volatile Organic Compounds (mg/kg)						
Sample ID ¹	(mg/kg)	В	т	E	X	Total BTEX	(mg/kg)	
SB1-POR-2'	6,800 ^H	16	15	24	110	165	140,000 ^{F1}	
SB2 0-1'	21,000 ^H	27	8.8 ^J	72	370	478	120,000	
SB3 0-1'	530 ^H	0.065	0.014	0.059	0.29	0.43	37,000	
SB4 0-1'	< 4.7 ^H	< 0.00074	< 0.0016	< 0.0012	0.0045 ^J	<0.008	39,000	
SB5 0-1'	49 ^H	0.0018 ^J	< 0.0015	0.0022 ^J	0.012	<0.018	43,000	
SB6 0-1'	< 4.5 ^H	< 0.00072	< 0.0016	< 0.0012	< 0.0013	<0.005	27,000	
NMOCD Site- Specific Criteria	100	10				50	250	

Table 4. Soil Analytical Results – 05/22/17

mg/kg – milligrams per kilogram

TPH - total petroleum hydrocarbons

BTEX - benzene, toluene, ethylbenzene, xylenes

^H – sample analyzed beyond holding time

^J – estimated value

F1 – MS and/or MSD Recovery is outside acceptance limits

– regulatory limit not established

- exceeds regulatory limit



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Conclusions

Based on Timberwolf's field investigation, the NMOCD site-specific cleanup criteria, and analytical results, the following is concluded:

- The main body of the impacted area encompasses approximately 1.15 acres (Figure 3). The release traveled mostly east following a two track road for approximately 1,655 ft. Initial cleanup included the removal of fluids and scraping the soil surface to consolidate the most heavily impacted soils into a stockpile to the south of the trunkline corridor. Fluids remain within the excavation at the point of release.
- Concentrations of TPH exceeded the NMOCD site-specific cleanup criteria in three soil samples (i.e., SB1-POR-2', SB2 0-1', and SB3 0-1'). SB1 was situated along the sidewall at the point of release. SB2 was situated 17 ft south of the point of release and SB3 was situated 63 ft east of the point of release. TPH concentrations of all other samples were below laboratory detection limits or NMOCD site-specific cleanup criteria.
- Concentrations of Benzene and Total BTEX exceeded the NMOCD site-specific cleanup criteria in two soil samples (i.e. SB1-POR-2' and SB2 0-1'). Benzene concentration of all other samples were below laboratory detection limits or NMOCD site-specific cleanup criteria.
- Concentrations of chlorides exceeded the NMOCD site-specific cleanup criteria in all six soil samples.
 - SB1-POR-2' and SB2 0-1' contained the highest concentrations of chloride at 140,000 milligrams per kilogram (mg/kg) and 120,000 mg/kg, respectively.
 - Chloride concentrations of the remaining soil samples were lower and ranged from 27,000 mg/kg to 43,000 mg/kg. SB6 0-1' had the lowest chloride concentration and is situated approximately 555 ft east of the point of release.

Site Characterization Work Plan

The following scope of work will be conducted within 60 days from the date of this work plan to characterize impacts at the Site:

Task 1: Site Characterization

The goals of the site characterization activities are as follows:

- Delineate the horizontal and vertical extents of hydrocarbon and salinity impacts in soil
- Assess soil characteristics to evaluate potential remedial options
- Verify that neither groundwater nor surface water have been affected by the release.

Soil samples will be collected from approximately 14 sampling locations to obtain horizontal and vertical delineation. Also, additional samples will be collected from the six initial sample locations (i.e., SB1 through SB6) to evaluate the vertical extent of impacts within the release area. A minimum of 20 soil samples will be analyzed at an environmental laboratory for the following: TPH by Method 8015 extended range; BTEX by Method 8260, and chlorides by Method 300.



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> Due to the surface soil characteristics, soil samples will be obtained from test pits installed with an excavator or backhoe. Each test pit will be logged to describe soil lithology and continuously field screened for volatile organic compounds (VOCs) with a photoionization detector (PID). In addition, certain samples will be field screened for salinity with an electrical conductivity meter to assist with sampling selection for delineation.

> In addition, a field reconnaissance will be performed to verify that no water wells or surface water bodies are located within a 1,000 ft radius of the release area.

Task 2: Site Characterization Report and Remedial Action Plan

Upon completion of Task 1, a Site Characterization Report and Remedial Action Plan will be submitted to the NMOCD. The report will document investigation methodology and results with associated figures, tables, and laboratory data. Based on site characterization results, the document will include the selected remedial approach to address soil impacts.

If you have any questions regarding this work plan, please call us at 979-324-2139.

Sincerely, Timberwolf Environmental, LLC

Ryan S. Mersmann, P.G., CPSS Vice President of Operations

Jim Foster

President

Attachments: Figures Form C-141 Photographic Log Laboratory Report and Chain-of-Custody Documents

Cc: , Amir Sanker, Jay Management



FIGURES







				2008 AL 10 10 10 10 10			
	Sample ID TPH Volatile Organic Compounds (n			ng/kg)	Chloride		
	Sample ID	(mg/kg)	В	Т	E	Х	(mg/kg)
	SB1-POR-2'	6,800 ^H	16	15	24	110	140,000 ^{F1}
	SB2 0-1'	21,000 ^H	27	8.8 ^J	72	370	120,000
	SB3 0-1'	530 ^H	0.065	0.014	0.059	0.29	37,000
	SB4 0-1'	< 4.7 ^H	< 0.00074	< 0.0016	< 0.0012	0.0045 ^J	<u>39,000</u>
	SB5 0-1'	49 ^H	0.0018 ^J	< 0.0015	0.0022 ^J	0.012	43,000
	SB6 0-1'	< 4.5 ^H	< 0.00072	< 0.0016	< 0.0012	< 0.0013	27,000
	NMOCD Site- Specific Criteria	100	10				250
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Form C-141

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised April 3, 2017

t. Francis Dr. VM 87505

1220 S. St. Fra	ncis Dr., Sani	a Fe, NM 8750				e, NM 875			
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			e. 810, Ho	ouston, Texas 7'	7027		No.: 979-324-21		
Facility Na	me: Dolly	No. 1				Facility Typ	e: Tank Battery	1	
Surface Ov	vner: State	of New Mex	kico	Mineral	Owner:	State of New	w Mexico	API No	.: 30-025-22370
				LOC	ATIO	N OF RE	LEASE		
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County
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Was Immediate Notice Given? X Yes No 🗌 Not Required					quired	If YES, To Olivia Yu,		nmental Specialist	
By Whom?	Mr. Amir S	anker, Operati	ons Mana	ger		Date and I	Hour: 5/19/17 at 3	:00 pm CST	
Was a Water		ched?		1.14			olume Impacting		
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federal, state	e, or local la	ws and/or reg	ulations.				OIL CON	SERVATION	DIVISION
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Printed Nam	e: Jim Fost	er				Approved by	Environmental S	pecialist:	Y
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Date:	5/20/17	P	hone: 979	-324-2139		see al			

* Attach Additional Sheets If Necessary

1RP-4705

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pOY1714230448

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _5/20/2017__ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4705_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _6/22/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us







		i i		:1,000	i i	Feet
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Timberwolf			Jay Mana	gement, L	LC	
	Created By: Austin Russell	Bagley	Field, Lea	County, N	lew Mexico	Datum: NAD83 hagery Source: ESRI
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PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPHIC LOG

Project No.:	ISR-170051	Client:	Jay Management
Project Name:	Dolly No. 1 Flowline Release	Site Location:	Lea County, New Mexico
Task Description:	Initial Site Assessment	Date:	05/22/17
Photo No.: 1	11112	Sector and	
Direction: E	- man	a the states	
Comments: The excavation, point of release, and the Dolly No. 1 flowline and trunkline junction. Note location of point of release and	Point of Release		
SB1-POR-2'.			SB1-POR-2'
Photo No.: 2		100-00	
Direction: E			
Comments: Impacted soils in the area around the point of release. Note the locations of the point of release and SB2.	Point of Release	SB2	



PHOTOGRAPHIC LOG

Project No.:	ISR-170051	Client:	Jay Management
Project Name:	Dolly No. 1 Flowline Release	Site Location:	Lea County, New Mexico
Task Description:	Initial Site Assessment	Date:	05/22/17
Photo No.: 3 Direction: SW			
Comments: Impacted soils in the area east of the point of release. Note the SB3 and SB5 sample locations.		SB5	
Photo No.: 4			
Direction: NE			2
Comments: Impacted soils which have been scraped and stockpiled. Note the SB4 sample location.	SB4		



PHOTOGRAPHIC LOG

Project No.:	ISR-170051	Client:	Jay Management
Project Name:	Dolly No. 1 Flowline Release	Site Location:	Lea County, New Mexico
Task Description:	Initial Site Assessment	Date:	05/22/17
Photo No.: 5		-	
Direction: E			
Comments: Impacted soils along the two-track road which the spill trajectory mostly traveled.			
Photo No.: 6			
Direction: W			
Comments: Toward the Dolly No. 1 tank battery, at the impacted soils along the two track road which the spill trajectory mostly traveled.			

LABORATORY REPORT AND CHAIN OF CUSTODY DOCUMENTS



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston 6310 Rothway Street Houston, TX 77040 Tel: (713)690-4444

TestAmerica Job ID: 600-148741-1 Client Project/Site: Dolby No.1 - 170051

For:

Timberwolf Environmental LLC 1920 W. Vill Maria Suite 305-2 Box 205 Bryan, Texas 77807

Attn: James Foster

maix Comba

Authorized for release by: 6/5/2017 1:43:36 PM Donnie Combs, Project Management Assistant I (713)690-4444 donnie.combs@testamericainc.com

Designee for

Dean Joiner, Project Manager II (713)690-4444 dean.joiner@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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1 2 3 4 5 6 7 8 9 10 11 12 13 14

Job ID: 600-148741-1

Laboratory: TestAmerica Houston

Narrative

Job Narrative 600-148741-1

Comments

No additional comments.

Receipt

The samples were received on 5/26/2017 10:04 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.2° C.

Receipt Exceptions

The following sample(s) was received with less than 2 days remaining on the holding time or less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: SB2 0-1 (600-148741-2), SB3 0-1 (600-148741-3), SB4 0-1 (600-148741-4), SB5 0-1 (600-148741-5) and SB6 0-1 (600-148741-6).

GC/MS VOA

Method(s) 8260B: The following sample required a dilution due to the nature of the sample matrix: SB1-POR-2 (600-148741-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: SB1-POR-2 (600-148741-1). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample required a dilution due to the nature of the sample matrix: SB2 0-1 (600-148741-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: SB2 0-1 (600-148741-2). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method(s) TX 1005: The following sample required a dilution due to the nature of the sample matrix: SB2 0-1 (600-148741-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) TX 1005: The following sample(s) was analyzed outside of analytical holding time. The sample was not frozen within the 48 hours required by the method. SB1-POR-2 (600-148741-1) and SB6 0-1 (600-148741-6).

Method(s) TX 1005: The following sample(s) was analyzed outside of analytical holding time. The samples were not frozen within the 48 hours required by the method.

SB2 0-1 (600-148741-2), SB3 0-1 (600-148741-3), SB4 0-1 (600-148741-4) and SB5 0-1 (600-148741-5).

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

General Chemistry

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

Industrial Hygiene

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

Organic Prep

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

Client: Timberwolf Environmental LLC Project/Site: Dolby No.1 - 170051

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lethod	Method Description	Protocol	Laboratory
260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
X 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
)56	Anions, Ion Chromatography	SW846	TAL HOU
loisture	Percent Moisture	EPA	TAL HOU

Protocol References:

EPA = US Environmental Protection Agency

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

TCEQ = Texas Commission of Environmental Quality

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TestAmerica Houston

Sample Summary

Client: Timberwolf Environmental LLC Project/Site: Dolby No.1 - 170051 TestAmerica Job ID: 600-148741-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-148741-1	SB1-POR-2	Solid	05/22/17 16:00	05/26/17 10:04
600-148741-2	SB2 0-1	Solid	05/22/17 16:05	05/26/17 10:04
600-148741-3	SB3 0-1	Solid	05/22/17 16:08	05/26/17 10:04
600-148741-4	SB4 0-1	Solid	05/22/17 16:12	05/26/17 10:04
600-148741-5	SB5 0-1	Solid	05/22/17 16:15	05/26/17 10:04
600-148741-6	SB6 0-1	Solid	05/22/17 16:20	05/26/17 10:04

4-Bromofluorobenzene

ient Sample ID: SB1-POR-2 te Collected: 05/22/17 16:00	2						Lab Samp		x: Solid
ate Received: 05/26/17 10:04								Percent Soli	as: 68.1
Method: 8260B - Volatile Organic Analyte		(GC/MS) Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16		3.7	0.46	mg/Kg	<u>Å</u>	05/31/17 11:00	06/01/17 22:43	4
Ethylbenzene	24		3.7	0.75	mg/Kg	₽	05/31/17 11:00	06/01/17 22:43	4
Toluene	15		3.7	1.0	mg/Kg	₽	05/31/17 11:00	06/01/17 22:43	4
Xylenes, Total	110		3.7	0.83	mg/Kg	\$	05/31/17 11:00	06/01/17 22:43	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		61 - 130				05/31/17 11:00	06/01/17 22:43	4
Dibromofluoromethane	125		68 - 140				05/31/17 11:00	06/01/17 22:43	4
Toluene-d8 (Surr)	35	X	50 - 130				05/31/17 11:00	06/01/17 22:43	4
4-Bromofluorobenzene	0	X	57 _ 140				05/31/17 11:00	06/01/17 22:43	4
Method: TX 1005 - Texas - Total P	etroleum Hyd	rocarbon (GC) - DL						
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	1800	Н	150	55	mg/Kg	₽ ₽	05/30/17 10:58	05/31/17 10:12	10
>C12-C28	4300	н	150	59	mg/Kg	¢	05/30/17 10:58	05/31/17 10:12	10
>C28-C35	650	н	150	59	mg/Kg	¢	05/30/17 10:58	05/31/17 10:12	10
C6-C35	6800	н	150	55	mg/Kg	¢	05/30/17 10:58	05/31/17 10:12	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	121		70 - 130				05/30/17 10:58	05/31/17 10:12	10
Method: 9056 - Anions, Ion Chror	natography - S	Soluble							
Analyte	Result	Qualifier	MQL (Adj)		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140000	F1	3000	400	mg/Kg	\$		06/01/17 12:42	500
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	31.9		1.0	1.0	%			05/30/17 17:29	1
Percent Solids	68.1		1.0	1.0	%			05/30/17 17:29	1
Client Sample ID: SB2 0-1							Lab Samp	le ID: 600-14	8741-2
ate Collected: 05/22/17 16:05									x: Solid
ate Received: 05/26/17 10:04								Percent Soli	ds: 70 0

Date Received: 05/26/17 10:04								Percent Soli	ds: 70.0
- Method: 8260B - Volatile Orga	nic Compounds ((GC/MS)							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	27		8.9	1.1	mg/Kg	<u>\$</u>	05/31/17 11:00	06/02/17 18:45	10
Ethylbenzene	72		8.9	1.8	mg/Kg	₽	05/31/17 11:00	06/02/17 18:45	10
Toluene	8.8	J	8.9	2.5	mg/Kg	¢	05/31/17 11:00	06/02/17 18:45	10
Xylenes, Total	370		8.9	2.0	mg/Kg	¢	05/31/17 11:00	06/02/17 18:45	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	19	X	61 - 130				05/31/17 11:00	06/02/17 18:45	10
Dibromofluoromethane	0	X	68 - 140				05/31/17 11:00	06/02/17 18:45	10
Toluene-d8 (Surr)	0	X	50 - 130				05/31/17 11:00	06/02/17 18:45	10

Method: TX 1005 - Texas - Total Pe	troleum Hyd	rocarbon (GC) - DL						
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	8000	н	710	270	mg/Kg	\	05/30/17 10:58	05/31/17 00:43	50
>C12-C28	13000	н	710	290	mg/Kg	¢	05/30/17 10:58	05/31/17 00:43	50

57 - 140

0 X

TestAmerica Houston

06/02/17 18:45

05/31/17 11:00

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Client Sample ID: SB2 0-1 Date Collected: 05/22/17 16:05 Date Received: 05/26/17 10:04

Lab Sample ID: 600-148741-2 Matrix: Solid

Percent Solids: 70.0

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	290	UH	710	290	mg/Kg	₩ ₩	05/30/17 10:58	05/31/17 00:43	50
C6-C35	21000	н	710	270	mg/Kg	¢	05/30/17 10:58	05/31/17 00:43	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	0	X	70 - 130				05/30/17 10:58	05/31/17 00:43	50
Method: 9056 - Anions, Ion Chror	natography - S	Soluble							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120000		2800	380	mg/Kg	<u></u>		06/01/17 13:38	500
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	30.0		1.0	1.0	%			05/30/17 17:29	1
Percent Solids	70.0		1.0	1.0	%			05/30/17 17:29	1
lient Sample ID: SB3 0-1							Lab Samp	le ID: 600-14	8741-3
ate Collected: 05/22/17 16:08								Matri	x: Solid
ate Received: 05/26/17 10:04								Percent Soli	ds: 82.3
Method: 8260B - Volatile Organic	Compounds ((GC/MS)							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.065		0.0064	0.00080	mg/Kg	<u> </u>	05/30/17 12:50	05/31/17 01:06	1
Ethylbenzene	0.059		0.0064	0.0013	mg/Kg	¢	05/30/17 12:50	05/31/17 01:06	1
Toluene	0.014		0.0064	0.0018	mg/Kg	¢	05/30/17 12:50	05/31/17 01:06	
Xylenes, Total	0.29		0.0064	0.0014		 ¢	05/30/17 12:50	05/31/17 01:06	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		61 - 130	05/30/17 12:50	05/31/17 01:06	1
Dibromofluoromethane	85		68 - 140	05/30/17 12:50	05/31/17 01:06	1
Toluene-d8 (Surr)	93		50 - 130	05/30/17 12:50	05/31/17 01:06	1
4-Bromofluorobenzene	113		57 _ 140	05/30/17 12:50	05/31/17 01:06	1

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	52	Н	12	4.6	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
>C12-C28	410	н	12	4.9	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
>C28-C35	69	н	12	4.9	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
C6-C35	530	н	12	4.6	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
			70 - 130				05/30/17 10:58	05/30/17 19:34	1
o-Terphenyl	113		70 - 130				05/30/17 10.56	03/30/17 19.34	
Method: 9056 - Anions, Ion Analyte	Chromatography - S Result	Soluble Qualifier	MQL (Adj)		Unit	D	Prepared	Analyzed	
Method: 9056 - Anions, Ion	Chromatography - S				Unit mg/Kg	D			
Method: 9056 - Anions, Ion Analyte	Chromatography - S Result		MQL (Adj)					Analyzed	
Method: 9056 - Anions, Ion Analyte Chloride General Chemistry	Chromatography - S Result 37000		MQL (Adj)	320				Analyzed	500
Method: 9056 - Anions, Ion Analyte Chloride	Chromatography - S Result 37000	Qualifier	MQL (Adj) 2400	320	mg/Kg Unit	<u>*</u>	Prepared	Analyzed 06/01/17 13:56	Dil Fac 500 Dil Fac

TestAmerica Houston

Client Sample ID: SB4 0-1 Date Collected: 05/22/17 16:12 Date Received: 05/26/17 10:04

Lab Sample ID: 600-148741-4 Matrix: Solid

Percent Solids: 80.1

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Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.00074	U	0.0059	0.00074	mg/Kg		05/30/17 12:50	05/31/17 01:31	
Ethylbenzene	0.0012	U	0.0059	0.0012	mg/Kg	⇔	05/30/17 12:50	05/31/17 01:31	
Toluene	0.0016	U	0.0059	0.0016	mg/Kg	¢	05/30/17 12:50	05/31/17 01:31	
Xylenes, Total	0.0045	J	0.0059	0.0013	mg/Kg	¢	05/30/17 12:50	05/31/17 01:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	95		61 - 130				05/30/17 12:50	05/31/17 01:31	
Dibromofluoromethane	85		68 - 140				05/30/17 12:50	05/31/17 01:31	
Toluene-d8 (Surr)	86		50 - 130				05/30/17 12:50	05/31/17 01:31	
4-Bromofluorobenzene	101		57 _ 140				05/30/17 12:50	05/31/17 01:31	
Method: TX 1005 - Texas - Tota	al Petroleum Hyc	rocarbon (GC)						
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fa
C6-C12	4.7	UH	12	4.7	mg/Kg	Ŷ	05/30/17 10:58	05/30/17 20:09	
>C12-C28	5.1	UH	12	5.1	mg/Kg	¢	05/30/17 10:58	05/30/17 20:09	
>C28-C35	5.1	UH	12	5.1	mg/Kg	¢	05/30/17 10:58	05/30/17 20:09	
C6-C35	4.7	UH	12	4.7	mg/Kg	¢	05/30/17 10:58	05/30/17 20:09	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
o-Terphenyl	104		70 - 130				05/30/17 10:58	05/30/17 20:09	
Method: 9056 - Anions, Ion Ch	romatography -	Soluble							
Analyte		Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	39000		2500	-	mg/Kg			06/01/17 14:15	50
General Chemistry									
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture	19.9	· · · · · · · · · · · · · · · · · · ·	1.0	1.0	%			05/30/17 17:29	
Percent Solids	80.1		1.0	1.0	%			05/30/17 17:29	
	80.1				%		Lab Samp		
lient Sample ID: SB5 0-1	80.1				%		Lab Samp	le ID: 600-14	8741-
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15	80.1				%		Lab Samp	le ID: 600-14	8741-{ x: Solie
lient Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04		(GC/MS)			%		Lab Samp	le ID: 600-14 Matri	8741-{ x: Solie
lient Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ	nic Compounds	(<mark>GC/MS)</mark> Qualifier		1.0	% Unit	D	Lab Samp	le ID: 600-14 Matri	8741-{ x: Solid ds: 83./
lient Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte	nic Compounds	Qualifier	1.0	1.0	Unit	D		le ID: 600-14 Matri Percent Soli	8741-4 x: Solie ds: 83.2 Dil Fa
lient Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene	nic Compounds Result	Qualifier J	1.0 MQL (Adj)	1.0	Unit mg/Kg		Prepared	le ID: 600-14 Matri Percent Soli Analyzed	8741-{ x: Solid ds: 83.1 Dil Fa
lient Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene	nic Compounds Result	Qualifier J J	1.0 MQL (Adj) 0.0055	1.0 SDL 0.00069	Unit mg/Kg mg/Kg	<u> </u>	Prepared 05/30/17 12:50	le ID: 600-14 Matri Percent Soli <u>Analyzed</u> 05/31/17 01:56	8741-4 x: Soli ds: 83. Dil Fa
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene	nic Compounds Result 0.0018 0.0022	Qualifier J J	1.0 MQL (Adj) 0.0055 0.0055	1.0 SDL 0.00069 0.0011	Unit mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50	le ID: 600-14 Matri Percent Soli Analyzed 05/31/17 01:56 05/31/17 01:56	8741-3 x: Solid ds: 83. Dil Fa
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total	nic Compounds Result 0.0018 0.0022 0.0015	Qualifier J J U	1.0 MQL (Adj) 0.0055 0.0055 0.0055	1.0 SDL 0.00069 0.0011 0.0015	Unit mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50	le ID: 600-14 Matri Percent Soli Malyzed 05/31/17 01:56 05/31/17 01:56	8741-{ x: Solid ds: 83 Dil Fa
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate	nic Compounds Result 0.0018 0.0022 0.0015 0.012	Qualifier J J U	1.0 MQL (Adj) 0.0055 0.0055 0.0055 0.0055	1.0 SDL 0.00069 0.0011 0.0015	Unit mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50	le ID: 600-14 Matri Percent Soli 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56	8741-{ x: Solid ds: 83. Dil Fa
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr)	nic Compounds Result 0.0018 0.0022 0.0015 0.012 %Recovery	Qualifier J J U	1.0 MQL (Adj) 0.0055 0.0055 0.0055 0.0055 Limits	1.0 SDL 0.00069 0.0011 0.0015	Unit mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 Prepared	le ID: 600-14 Matri Percent Soli 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 Analyzed	8741-{ x: Solid ds: 83. Dil Fa
lient Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane	nic Compounds Result 0.0018 0.0022 0.0015 0.012 %Recovery 90	Qualifier J J U	1.0 MQL (Adj) 0.0055 0.0055 0.0055 0.0055 <u>Limits</u> 61 - 130	1.0 SDL 0.00069 0.0011 0.0015	Unit mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 Prepared 05/30/17 12:50	le ID: 600-14 Matri Percent Soli 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 Analyzed 05/31/17 01:56	8741- x: Soli ds: 83. Dil Fa
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr)	nic Compounds Result 0.0018 0.0022 0.0015 0.012 %Recovery 90 82	Qualifier J J U	1.0 MQL (Adj) 0.0055 0.0055 0.0055 0.0055 Limits 61 - 130 68 - 140	1.0 SDL 0.00069 0.0011 0.0015	Unit mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 Prepared 05/30/17 12:50	le ID: 600-14 Matri Percent Soli 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 Analyzed 05/31/17 01:56	8741-4 x: Solid ds: 83. Dil Fa
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene	nic Compounds Result 0.0018 0.0022 0.0015 0.012 %Recovery 90 82 90 116	Qualifier J J U	1.0 MQL (Adj) 0.0055 0.005 0.0	1.0 SDL 0.00069 0.0011 0.0015	Unit mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 Prepared 05/30/17 12:50 05/30/17 12:50	le ID: 600-14 Matri Percent Soli 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 <i>Analyzed</i> 05/31/17 01:56 05/31/17 01:56	8741-{ x: Solid ds: 83. Dil Fa
Client Sample ID: SB5 0-1 ate Collected: 05/22/17 16:15 ate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Method: TX 1005 - Texas - Tota	nic Compounds Result 0.0018 0.0022 0.015 0.012 %Recovery 90 82 90 116 al Petroleum Hyc	Qualifier J J U	1.0 MQL (Adj) 0.0055 0.005 0.0	1.0 SDL 0.00069 0.0011 0.0015 0.0012 SDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg		Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 Prepared 05/30/17 12:50 05/30/17 12:50	le ID: 600-14 Matri Percent Soli 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 <i>Analyzed</i> 05/31/17 01:56 05/31/17 01:56	x: Solic
Percent Solids Client Sample ID: SB5 0-1 Pate Collected: 05/22/17 16:15 Pate Received: 05/26/17 10:04 Method: 8260B - Volatile Organ Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate 1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Method: TX 1005 - Texas - Tota Analyte C6-C12	nic Compounds Result 0.0018 0.0022 0.015 0.012 %Recovery 90 82 90 116 al Petroleum Hyco Result	Qualifier J J U Qualifier	1.0 MQL (Adj) 0.0055 0.005	1.0 SDL 0.00069 0.0011 0.0015 0.0012 SDL	Unit mg/Kg mg/Kg mg/Kg mg/Kg	₩ ₩ ₩ ₩	Prepared 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50 05/30/17 12:50	le ID: 600-14 Matri Percent Soli 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56 05/31/17 01:56	8741-{ x: Solid ds: 83.2 Dil Fa

Client Sample ID: SB5 0-1 Date Collected: 05/22/17 16:15 Date Received: 05/26/17 10:04

Lab Sample ID: 600-148741-5 Matrix: Solid

Percent Solids: 83.2

Matrix: Solid

Percent Solids: 83.7

5 6

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
>C28-C35	4.8	UH	12	4.8	mg/Kg	<u>\$</u>	05/30/17 10:58	05/30/17 20:43	1
C6-C35	49	н	12	4.5	mg/Kg	¢	05/30/17 10:58	05/30/17 20:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	111		70 - 130				05/30/17 10:58	05/30/17 20:43	1
Method: 9056 - Anions, Ion	Chromatography -	Soluble							
Analyte		Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43000		2400	320	mg/Kg	<u>\$</u>		06/01/17 14:33	500
Chloride General Chemistry	43000		2400	320	mg/Kg	<u> </u>		06/01/17 14:33	500
		Qualifier	2400		mg/Kg Unit	‡	Prepared	06/01/17 14:33 Analyzed	500 Dil Fac
General Chemistry		Qualifier			Unit		Prepared		

Client Sample ID: SB6 0-1

Date Collected: 05/22/17 16:20

Date Received: 05/26/17 10:04

Method: 8260B - Volatile Orga	nic Compounds ((GC/MS)							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00072	U	0.0057	0.00072	mg/Kg	<u>\$</u>	05/30/17 12:50	05/31/17 02:20	1
Ethylbenzene	0.0012	U	0.0057	0.0012	mg/Kg	¢	05/30/17 12:50	05/31/17 02:20	1
Toluene	0.0016	U	0.0057	0.0016	mg/Kg	¢	05/30/17 12:50	05/31/17 02:20	1
Xylenes, Total	0.0013	U	0.0057	0.0013	mg/Kg	¢	05/30/17 12:50	05/31/17 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		61 - 130				05/30/17 12:50	05/31/17 02:20	1
Dibromofluoromethane	86		68 - 140				05/30/17 12:50	05/31/17 02:20	1
Toluene-d8 (Surr)	92		50 _ 130				05/30/17 12:50	05/31/17 02:20	1
4-Bromofluorobenzene	121		57 _ 140				05/30/17 12:50	05/31/17 02:20	1

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
C6-C12	4.5	UH	12	4.5	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
>C12-C28	4.8	UH	12	4.8	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
>C28-C35	4.8	UH	12	4.8	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
C6-C35	4.5	UH	12	4.5	mg/Kg	¢	05/30/17 10:58	05/30/17 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	101		70 - 130				05/30/17 10:58	05/30/17 19:34	1
Method: 9056 - Anions,	Ion Chromatography - S	Soluble							
Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27000		2400	320	mg/Kg	₩		06/01/17 14:52	500

Analyte	Result	Qualifier	MQL (Adj)	SDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	16.3		1.0	1.0	%			05/30/17 17:31	1
Percent Solids	83.7		1.0	1.0	%			05/30/17 17:31	1

Indicates the analyte was analyzed for but not detected.

Surrogate is outside control limits

Toxicity Equivalent Quotient (Dioxin)

Qualifiers

GC/MS VOA

GC/MS VOA		
Qualifier	Qualifier Description	
Х	Surrogate is outside control limits	 5
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	J
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	Α	0
Qualifier	Qualifier Description	7
Н	Sample was prepped or analyzed beyond the specified holding time	

х

U

HPLC/IC	
Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	13
CFL	Contains Free Liquid	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Prep Type: Total/NA

				Percent Su	rrogate Recovery (Acce	ptance Limits)
		12DCE	DBFM	TOL	BFB	
Lab Sample ID	Client Sample ID	(61-130)	(68-140)	(50-130)	(57-140)	
600-148741-1	SB1-POR-2	91	125	35 X	0 X	
600-148741-2	SB2 0-1	19 X	0 X	0 X	0 X	
600-148741-3	SB3 0-1	98	85	93	113	
600-148741-4	SB4 0-1	95	85	86	101	
600-148741-5	SB5 0-1	90	82	90	116	
600-148741-6	SB6 0-1	93	86	92	121	
LCS 600-214018/3	Lab Control Sample	102	98	99	123	
LCS 600-214085/1-A	Lab Control Sample	67	88	82	62	
LCSD 600-214018/4	Lab Control Sample Dup	94	94	99	127	
LCSD 600-214085/2-A	Lab Control Sample Dup	65	86	86	67	
MB 600-214018/6	Method Blank	105	86	95	124	
MB 600-214085/3-A	Method Blank	71	104	85	67	
Surrogate Legend						
12DCE = 1,2-Dichloroet	hane-d4 (Surr)					
DBFM = Dibromofluoron	nethane					
TOL = Toluene-d8 (Surr)					
BFB = 4-Bromofluorober	nzene					
	Towas Total Defealours	Llucius s sub s				
	Texas - Total Petroleum	Hydrocarbo	n (GC)			
atrix: Solid						Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits) отрн Lab Sample ID **Client Sample ID** (70-130) 600-148741-1 - DL SB1-POR-2 121 600-148741-2 - DL SB2 0-1 0 X 600-148741-3 SB3 0-1 113 600-148741-4 SB4 0-1 104 600-148741-5 SB5 0-1 111 600-148741-6 SB6 0-1 101 LCS 600-213984/2-A Lab Control Sample 97 LCSD 600-213984/3-A Lab Control Sample Dup 120 MB 600-213984/1-A Method Blank 106 Surrogate Legend OTPH = o-Terphenyl

4-Bromofluorobenzene

127

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid	18/6									Sample ID: Mo Prep Typ		
Analysis Batch: 214018												
·····,····	М	в мв										
Analyte	Resu	It Qualifier	MQL (Adj)	s	DL Un	it	D	Pr	epared	Analyzed		Dil Fa
Benzene	0.0006	3 U	0.0050	0.000	063 mg	j/Kg			-	05/30/17 23	03	
Ethylbenzene	0.001	0 U	0.0050)10 mg					05/30/17 23	03	
Toluene	0.001	4 U	0.0050)14 mg					05/30/17 23	03	
Xylenes, Total	0.001	1 U	0.0050)11 mg					05/30/17 23	03	
	M							_				
Surrogate		y Qualifier	Limits				_	Pr	epared	Analyzed		Dil Fa
1,2-Dichloroethane-d4 (Surr)	10		61 - 130							05/30/17 23		
Dibromofluoromethane	8		68 - 140							05/30/17 23		
Toluene-d8 (Surr)		5	50 - 130							05/30/17 23		
4-Bromofluorobenzene	12	4	57 - 140							05/30/17 23	:03	
Lab Sample ID: LCS 600-214	018/3						Cli	ent	Sample	ID: Lab Con	trol S	amnle
Matrix: Solid									oumpic	Prep Typ		
Analysis Batch: 214018										i i cp i y		
Analysis Baton. 214010			Spike	LCS L	_cs					%Rec.		
Analyte			Added	Result C		r Unit		D	%Rec	Limits		
Benzene			0.0500	0.0532		mg/Kg			106	70 - 131		
Ethylbenzene			0.0500	0.0480		mg/Kg			96	66 - 130		
Toluene			0.0500	0.0499		mg/Kg			100	67 - 130		
Xylenes, Total			0.100	0.0931		mg/Kg			93	63 - 130		
	LCS LC	s										
	200 20											
Surrogate	%Recovery Qu	ıalifier	Limits									
Surrogate 1,2-Dichloroethane-d4 (Surr)		ualifier	Limits 61 - 130									
-	%Recovery Qu	ıalifier										
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane		ualifier	61 - 130									
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr)		ualifier	61 - 130 68 - 140									
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene	%Recovery Qu 102 98 99 123	ualifier	61 - 130 68 - 140 50 - 130									
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21	%Recovery Qu 102 98 99 123	ıalifier	61 - 130 68 - 140 50 - 130			cı	ient S	Sam	ple ID: I	Lab Control S		
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid	%Recovery Qu 102 98 99 123	ialifier	61 - 130 68 - 140 50 - 130			CI	ient S	Sam	ple ID:	Lab Control S Prep Typ		
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid	%Recovery Qu 102 98 99 123	alifier	61 - 130 68 - 140 50 - 130 57 - 140		COD	CI	ient S	Samj	ple ID:	Ргер Тур		tal/NA
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018	%Recovery Qu 102 98 99 123	lalifier	61 - 130 68 - 140 50 - 130 57 - 140 Spike	LCSD L			ient S			Prep Typ %Rec.	e: To	tal/NA
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte	%Recovery Qu 102 98 99 123	ialifier	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added	Result C		r Unit	ient S	Samı D	%Rec	Prep Typ %Rec. Limits	RPD	tal/NA RPI Limi
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene	%Recovery Qu 102 98 99 123	ialifier	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500	Result 0.0502		r Unit mg/Kg	ient S		%Rec 100	Prep Typ %Rec. Limits 70 - 131	RPD 6	tal/NA RPI Limi 30
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene Ethylbenzene	%Recovery Qu 102 98 99 123	ialifier	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500 0.0500	Result C 0.0502 0.0503		r Unit mg/Kg mg/Kg	lient S		%Rec 100 101	Prep Typ %Rec. Limits 70 - 131 66 - 130	RPD	tal/NA RPI Limi 30
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene Ethylbenzene Toluene	%Recovery Qu 102 98 99 123	ıalifier	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500 0.0500	Result O 0.0502 0 0.0503 0 0.0502 0		r Unit mg/Kg mg/Kg mg/Kg	ient S		%Rec 100 101 100	Kec. Limits 70 - 131 66 - 130 67 - 130	RPD 6 5 1	tal/NA RPE Limi 30 30 30
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene Ethylbenzene Toluene	%Recovery Qu 102 98 99 123	ialifier	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500 0.0500	Result C 0.0502 0.0503		r Unit mg/Kg mg/Kg	ient S		%Rec 100 101	Prep Typ %Rec. Limits 70 - 131 66 - 130	RPD 6	tal/NA RPI Limi 30 30 30
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene Ethylbenzene Toluene	%Recovery Qu 102 98 99 123		61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500 0.0500	Result O 0.0502 0 0.0503 0 0.0502 0		r Unit mg/Kg mg/Kg mg/Kg	ient S		%Rec 100 101 100	Kec. Limits 70 - 131 66 - 130 67 - 130	RPD 6 5 1	tal/NA RPI Limi 30 30 30
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene Ethylbenzene Toluene	%Recovery Qu 102 98 99 123 4018/4	:SD	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500 0.0500	Result O 0.0502 0 0.0503 0 0.0502 0		r Unit mg/Kg mg/Kg mg/Kg	ient S		%Rec 100 101 100	Kec. Limits 70 - 131 66 - 130 67 - 130	RPD 6 5 1	tal/NA RPI Limi 30 30 30
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene Ethylbenzene Toluene Xylenes, Total	%Recovery Qu 102 98 99 123 4018/4 LCSD LC	:SD	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500 0.0500 0.0500 0.100	Result O 0.0502 0 0.0503 0 0.0502 0		r Unit mg/Kg mg/Kg mg/Kg	ient S		%Rec 100 101 100	Kec. Limits 70 - 131 66 - 130 67 - 130	RPD 6 5 1	
1,2-Dichloroethane-d4 (Surr) Dibromofluoromethane Toluene-d8 (Surr) 4-Bromofluorobenzene Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 214018 Analyte Benzene Ethylbenzene Toluene Xylenes, Total Surrogate	%Recovery Qu 102 98 99 123 4018/4 LCSD LC %Recovery Qu	:SD	61 - 130 68 - 140 50 - 130 57 - 140 Spike Added 0.0500 0.0500 0.0500 0.100 Limits	Result O 0.0502 0 0.0503 0 0.0502 0		r Unit mg/Kg mg/Kg mg/Kg	ient S		%Rec 100 101 100	Kec. Limits 70 - 131 66 - 130 67 - 130	RPD 6 5 1	tal/NA RPE Limi 30 30 30

TestAmerica Houston

57 _ 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 600-2140	85/3-A									Client Sa	ample ID:		
Matrix: Solid											Prep T	ype: To	otal/NA
Analysis Batch: 214086											Prep	Batch:	21408
		MB											
Analyte		Qualifier	MQL (Adj)		-	Unit		D		repared	Analyz		Dil Fa
Benzene	0.079		0.63	(mg/Kg				1/17 11:00	05/31/17		
Ethylbenzene	0.13		0.63			mg/Kg				1/17 11:00	05/31/17		
Toluene	0.17		0.63			mg/Kg				1/17 11:00	05/31/17		
Xylenes, Total	0.14	U	0.63		0.14	mg/Kg			05/3	1/17 11:00	05/31/17	15:22	
• · ·	MB								_				
Surrogate	%Recovery	Qualifier	Limits							repared	Analyz		Dil Fa
1,2-Dichloroethane-d4 (Surr)	71		61 - 130							1/17 11:00			
Dibromofluoromethane	104		68 - 140							1/17 11:00	05/31/17		
Toluene-d8 (Surr)	85		50 - 130							1/17 11:00	05/31/17		
4-Bromofluorobenzene	67		57 _ 140						05/3	1/17 11:00	05/31/17	15:22	1
Lab Sample ID: LCS 600-214	085/1-A							С	lient	Sample	ID: Lab C	ontrol S	Sample
Matrix: Solid											Prep T	ype: To	otal/N/
Analysis Batch: 214086											Prep	Batch:	21408
			Spike	LCS	LCS						%Rec.		
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits		
Benzene			6.25	6.21			mg/Kg		-	99	70 - 131		
Ethylbenzene			6.25	7.59			mg/Kg			121	66 - 130		
Toluene			6.25	6.63			mg/Kg			106	67 - 130		
Xylenes, Total			12.5	13.9			mg/Kg			111	63 _ 130		
	LCS LCS	;											
Surrogate	%Recovery Qua	lifier	Limits										
1,2-Dichloroethane-d4 (Surr)	67		61 - 130										
Dibromofluoromethane	88		68 - 140										
Toluene-d8 (Surr)	82		50 - 130										
4-Bromofluorobenzene	62		57 _ 140										
Lab Sample ID: LCSD 600-21	4085/2-A						Cli	ent	Sam	ple ID: L	ab Contro	ol Samo	le Dur
Matrix: Solid												ype: To	
Analysis Batch: 214086												Batch:	
,			Spike	LCSD	LCS	D					%Rec.		RPD
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene			6.25	6.08			mg/Kg		-	97	70 - 131	2	30
Ethylbenzene			6.25	7.71			mg/Kg			123	66 - 130	2	3
Toluene			6.25	6.90			mg/Kg			110	67 _ 130	4	3
Xylenes, Total			12.5	14.1			mg/Kg			113	63 - 130	1	30
	LCSD LCS	D											
	2002 200	-											

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	65		61 - 130
Dibromofluoromethane	86		68 - 140
Toluene-d8 (Surr)	86		50 - 130
4-Bromofluorobenzene	67		57 - 140

TestAmerica Houston

Chloride

9

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Lab Sample ID: MB 600-2139 Matrix: Solid	984/1-A									Client Sa	mple ID: Prep T		d Blank otal/NA
Analysis Batch: 213948												Batch:	
· · · · · , · · · · · · · · · · · · · · · · · · ·	MB	МВ											
Analyte	Result	Qualifier	MQL (Adj)		SDL	Unit		D	Р	repared	Analyz	zed	Dil Fa
C6-C12	3.8	U	10		3.8	mg/Kg	3	—	05/3	0/17 10:58	05/30/17	15:30	
>C12-C28	4.1	U	10		4.1	mg/Kg	3		05/3	0/17 10:58	05/30/17	15:30	
>C28-C35	4.1	U	10		4.1	mg/Kg			05/3	0/17 10:58	05/30/17	15:30	
C6-C35	3.8	U	10			mg/Kg	-			0/17 10:58	05/30/17		
	МВ												
Surrogate	%Recovery	Qualifier	Limits						P	repared	Analyz	zed	Dil Fa
o-Terphenyl	106		70 - 130						05/3	0/17 10:58	05/30/17	15:30	
Lab Sample ID: LCS 600-213	984/2-A							С	lient	Sample	ID: Lab C	ontrol S	Sample
Matrix: Solid											Prep T	ype: To	otal/N/
Analysis Batch: 213948			Spike	LCS	LCS						Prep %Rec.	Batch:	213984
Analyte			Added	Result			Unit		D	%Rec	Limits		
C6-C12			250	207	qua		mg/Kg			83	75 - 125		
>C12-C28			250	207			mg/Kg			94	75 - 125		
C6-C35			500	443			mg/Kg			89	75 - 125 75 - 125		
66-635			500	445			mg/rtg			09	15-125		
	LCS LCS	;											
Surrogate	%Recovery Qua	lifier	Limits										
o-Terphenyl	97		70 - 130										
Lab Sample ID: LCSD 600-21	3984/3-A						Cli	ent	Sam	ple ID: La	ab Contro	ol Samp	ole Duj
	3984/3-A						Cli	ent	Sam	ple ID: La		ol Samp Type: To	
Matrix: Solid	3984/3-A						Cli	ent	Sam	ple ID: La	Prep T	-	otal/N
Matrix: Solid	3984/3-A		Spike	LCSD	LCS	D	Cli	ent	Sam	nple ID: Li	Prep T	ype: To	otal/N/ 21398
Matrix: Solid Analysis Batch: 213948	3984/3-A		Spike Added	LCSD Result			Cli	ent	Sam D	n <mark>ple ID: L</mark> a %Rec	Prep T Prep	ype: To	otal/N/ 21398 RP
Matrix: Solid Analysis Batch: 213948 Analyte	3984/3-A 		-					ent		-	Prep T Prep %Rec.	ype: To Batch:	otal/N/ 21398 RPI Lim
Matrix: Solid Analysis Batch: 213948 Analyte C6-C12	3984/3-A 		Added	Result			Unit	ent		%Rec	Prep 1 Prep %Rec. Limits	Batch:	otal/N/ 21398 RPI Lim 2
Matrix: Solid Analysis Batch: 213948 Analyte C6-C12 >C12-C28	3 984/3-A		Added	Result 228			Unit mg/Kg	ent		% Rec 91	Prep 1 Prep %Rec. Limits 75 - 125	Sype: To Batch: RPD 10	otal/N/ 21398 RPI Lim 2 2
Lab Sample ID: LCSD 600-21 Matrix: Solid Analysis Batch: 213948 Analyte C6-C12 >C12-C28 C6-C35	13984/3-A	 D	Added 250	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent		%Rec 91 99	Prep 1 Prep %Rec. Limits 75 - 125 75 - 125	Sype: To Batch: 2 RPD 10 5	otal/N/ 213984 RPI Limi 20 21
Matrix: Solid Analysis Batch: 213948 Analyte C6-C12 >C12-C28 C6-C35 Surrogate	LCSD LCS %Recovery Qua		Added 250 250 500 <i>Limits</i>	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent		%Rec 91 99	Prep 1 Prep %Rec. Limits 75 - 125 75 - 125	Sype: To Batch: 2 RPD 10 5	otal/N/ 213984 RPI Limi 20 21
Matrix: Solid Analysis Batch: 213948 Analyte C6-C12 >C12-C28 C6-C35 Surrogate	LCSD LCS		Added 250 250 500	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent		%Rec 91 99	Prep 1 Prep %Rec. Limits 75 - 125 75 - 125	Sype: To Batch: 2 RPD 10 5	otal/N/ 213984 RPI Limi 20 21
Matrix: Solid Analysis Batch: 213948 Analyte C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl	LCSD LCS %Recovery Qua 120	lifier	Added 250 250 500 <i>Limits</i>	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent		%Rec 91 99	Prep 1 Prep %Rec. Limits 75 - 125 75 - 125	Sype: To Batch: 2 RPD 10 5	otal/N/ 21398 RPI Lim 2 2
Matrix: Solid Analysis Batch: 213948 Analyte C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl Iethod: 9056 - Anions, Ic	LCSD LCS %Recovery Qua 120	lifier	Added 250 250 500 <i>Limits</i>	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent	<u>D</u>	%Rec 91 99 95	Prep 7 Prep %Rec. Limits 75 - 125 75 - 125 75 - 125	ype: To Batch: RPD 10 5 7	otal/NJ 21398 RP <u>Lim</u> 2 2 2
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terpheny/ lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141	LCSD LCS %Recovery Qua 120	lifier	Added 250 250 500 <i>Limits</i>	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent	<u>D</u>	%Rec 91 99 95	Prep T Prep %Rec. Limits 75 - 125 75 - 125 75 - 125	ype: To Batch: 10 5 7 Methoo	otal/N/ 21398 RPI 2 2 2 2 2 2
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141 Matrix: Solid	LCSD LCS %Recovery Qua 120	lifier	Added 250 250 500 <i>Limits</i>	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent	<u>D</u>	%Rec 91 99 95	Prep T Prep %Rec. Limits 75 - 125 75 - 125 75 - 125	ype: To Batch: RPD 10 5 7	otal/NJ 21398 RP Lim 2 2 2 2 2 2 2
Matrix: Solid Analysis Batch: 213948 Analyte C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl lethod: 9056 - Anions, Ic	LCSD LCS %Recovery Qua 120 On Chromatogra 96/1-A	aphy	Added 250 250 500 <i>Limits</i>	Result 228 248			<mark>Unit</mark> mg/Kg mg/Kg	ent	<u>D</u>	%Rec 91 99 95	Prep 7 Prep %Rec. Limits 75 - 125 75 - 125 75 - 125	ype: To Batch: 10 5 7 Methoo	d Blan
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terpheny/ lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141 Matrix: Solid Analysis Batch: 214169	LCSD LCS %Recovery Qua 120 On Chromatogra 96/1-A MB	lifier	Added 250 500 Limits 70 - 130	Result 228 248	Qual	lifier	<mark>Unit</mark> mg/Kg mg/Kg	D	D	%Rec 91 99 95	Prep 7 Prep %Rec. Limits 75 - 125 75 - 125 75 - 125 75 - 125 Prep	Arype: To Batch: 10 10 5 7 Methoc Type: S	d Bland
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141 Matrix: Solid Analysis Batch: 214169 Analyte	LCSD LCS %Recovery Qua 120 On Chromatogra 96/1-A MB	Aphy MB Qualifier	Added 250 250 500 <i>Limits</i>	Result 228 248 476	Qual		Unit mg/Kg mg/Kg mg/Kg		D	%Rec 91 99 95	Prep 7 Prep %Rec. Limits 75 - 125 75 - 125 75 - 125	Arrow Topological Strength Str	d Blan
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terpheny/ lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141 Matrix: Solid Analysis Batch: 214169 Analyte Chloride	LCSD LCS %Recovery Qua 120 On Chromatogra 96/1-A MB Result 0.53	Aphy MB Qualifier	Added 250 500 <i>Limits</i> 70 - 130 MQL (Adj)	Result 228 248 476	Qual	Unit	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	 Р	%Rec 91 99 95 95 Client Sa repared	Prep 1 Prep %Rec. Limits 75 - 125 75 - 125 75 - 125 75 - 125 75 - 125 Prep Analyz 06/01/17	Methoc Type: To Batch: : 7 5 7 7 Methoc Type: S 22ed 10:35	d Blan Soluble
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141 Matrix: Solid Analysis Batch: 214169 Analyte Chloride Lab Sample ID: LCS 600-214	LCSD LCS %Recovery Qua 120 On Chromatogra 96/1-A MB Result 0.53	Aphy MB Qualifier	Added 250 500 <i>Limits</i> 70 - 130 MQL (Adj)	Result 228 248 476	Qual	Unit	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	 Р	%Rec 91 99 95 95 Client Sa repared	Prep 1 Prep 3 %Rec. Limits 75 - 125 75 - 125 - 125 75 - 125 - 125 75 - 125 - 12	ype: To Batch: 10 5 7 Methoo Type: \$ zed 10:35	d Blan Solubl
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141 Matrix: Solid Analysis Batch: 214169 Analyte Chloride Lab Sample ID: LCS 600-214 Matrix: Solid	LCSD LCS %Recovery Qua 120 On Chromatogra 96/1-A MB Result 0.53	Aphy MB Qualifier	Added 250 500 <i>Limits</i> 70 - 130 MQL (Adj)	Result 228 248 476	Qual	Unit	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	 Р	%Rec 91 99 95 95 Client Sa repared	Prep 1 Prep %Rec. Limits 75 - 125 75 - 125 75 - 125 75 - 125 75 - 125 Prep Analy: 06/01/17 ID: Lab C	Methoc Type: To Batch: : 7 5 7 7 Methoc Type: S 22ed 10:35	d Blan Solubl
Matrix: Solid Analysis Batch: 213948 C6-C12 >C12-C28 C6-C35 Surrogate o-Terphenyl lethod: 9056 - Anions, Ic Lab Sample ID: MB 600-2141 Matrix: Solid Analysis Batch: 214169 Analyte	LCSD LCS %Recovery Qua 120 On Chromatogra 96/1-A MB Result 0.53	Aphy MB Qualifier	Added 250 500 <i>Limits</i> 70 - 130 MQL (Adj)	Result 228 248 476	Qual	Unit mg/Kg	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	 Р	%Rec 91 99 95 95 Client Sa repared	Prep 1 Prep %Rec. Limits 75 - 125 75 - 125 75 - 125 75 - 125 75 - 125 Prep Analy: 06/01/17 ID: Lab C	ype: To Batch: 10 5 7 Methoo Type: \$ zed 10:35	d Blan Solubl

	Spike	LCS	LCS				%Rec.	
•	Added	Result	Qualifier	Unit	D	%Rec	Limits	
e	 200	193		mg/Kg		97	90 - 110	

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Method: 9056 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 600-148741-1 MS Matrix: Solid Analysis Batch: 214169								Clien	t Sample II Prep	D: SB1-F Type: So	
Analysis Datch. 214105	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	140000	F1	74600	140000	F1	mg/Kg	<u> </u>	-5	80 - 120		
Lab Sample ID: 600-148741-1 MSI)							Clien	t Sample II	D: SB1-F	POR-2
Matrix: Solid										Type: So	
Analysis Batch: 214169											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	140000	F1	74600	125000	F1	mg/Kg	¢	-26	80 - 120	11	20

Method: Moisture - Percent Moisture

Lab Sample ID: 600-148741-5 I Matrix: Solid Analysis Batch: 214024	DU						Client Sample ID: Prep Type: T		
	Sample	Sample	D	DU				RPD	
Analyte	Result	Qualifier	Resu	t Qualifier	Unit	D	RPD	Limit	
Percent Moisture	16.8		18.	3	%		8	20	
Percent Solids	83.2		81.	,	%		2	20	

Unadjusted Detection Limits

Method: 8260B - Volatile Organic Compounds (GC/MS) Prep: 5030B

Analyte	MQL	MDL	Units	Method
Benzene	0.0050	0.00063	mg/Kg	8260B
Ethylbenzene	0.0050	0.0010	mg/Kg	8260B
Toluene	0.0050	0.0014	mg/Kg	8260B
Xylenes, Total	0.0050	0.0011	mg/Kg	8260B

Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Prep: TX_1005_S_Prep

Analyte	MQL	MDL	Units	Method	
>C12-C28	10	4.1	mg/Kg	TX 1005	
>C28-C35	10	4.1	mg/Kg	TX 1005	
C6-C12	10	3.8	mg/Kg	TX 1005	
C6-C35	10	3.8	mg/Kg	TX 1005	

Method: 9056 - Anions, Ion Chromatography - Soluble

Leach: DI Leach

Analyte	MQL	MDL	Units	Method	
Chloride	4.0	0.53	mg/Kg	9056	

General Chemistry

Analyte	MQL	MDL	Units	Method
Percent Moisture	1.0	1.0	%	Moisture
Percent Solids	1.0	1.0	%	Moisture

GC/MS VOA

Prep Batch: 214003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-3	SB3 0-1	Total/NA	Solid	5030B	
600-148741-4	SB4 0-1	Total/NA	Solid	5030B	
600-148741-5	SB5 0-1	Total/NA	Solid	5030B	
600-148741-6	SB6 0-1	Total/NA	Solid	5030B	

Analysis Batch: 214018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-3	SB3 0-1	Total/NA	Solid	8260B	214003
600-148741-4	SB4 0-1	Total/NA	Solid	8260B	214003
600-148741-5	SB5 0-1	Total/NA	Solid	8260B	214003
600-148741-6	SB6 0-1	Total/NA	Solid	8260B	214003
MB 600-214018/6	Method Blank	Total/NA	Solid	8260B	
LCS 600-214018/3	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 600-214018/4	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 214085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-1	SB1-POR-2	Total/NA	Solid	5030B	
600-148741-2	SB2 0-1	Total/NA	Solid	5030B	
MB 600-214085/3-A	Method Blank	Total/NA	Solid	5030B	
LCS 600-214085/1-A	Lab Control Sample	Total/NA	Solid	5030B	
LCSD 600-214085/2-A	Lab Control Sample Dup	Total/NA	Solid	5030B	

Analysis Batch: 214086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-214085/3-A	Method Blank	Total/NA	Solid	8260B	214085
LCS 600-214085/1-A	Lab Control Sample	Total/NA	Solid	8260B	214085
LCSD 600-214085/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	214085
Analysis Batch: 214197					

Analysis Batch: 214197

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-1	SB1-POR-2	Total/NA	Solid	8260B	214085

Analysis Batch: 214291

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
600-148741-2	SB2 0-1	Total/NA	Solid	8260B	214085

GC Semi VOA

Analysis Batch: 213948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-2 - DL	SB2 0-1	Total/NA	Solid	TX 1005	213984
600-148741-3	SB3 0-1	Total/NA	Solid	TX 1005	213984
600-148741-4	SB4 0-1	Total/NA	Solid	TX 1005	213984
600-148741-5	SB5 0-1	Total/NA	Solid	TX 1005	213984
MB 600-213984/1-A	Method Blank	Total/NA	Solid	TX 1005	213984
LCS 600-213984/2-A	Lab Control Sample	Total/NA	Solid	TX 1005	213984
LCSD 600-213984/3-A	Lab Control Sample Dup	Total/NA	Solid	TX 1005	213984

GC Semi VOA (Continued)

Analysis Batch: 213950

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
00-148741-1 - DL	SB1-POR-2	Total/NA	Solid	TX 1005	213984
00-148741-6	SB6 0-1	Total/NA	Solid	TX 1005	213984
e Prep Batch: 2139	82				
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
00-148741-1 - DL	SB1-POR-2	Total/NA	Solid	Frozen	
				Preserve	
00-148741-2 - DL	SB2 0-1	Total/NA	Solid	Frozen	
				Preserve	
0-148741-3	SB3 0-1	Total/NA	Solid	Frozen	
				Preserve	
00-148741-4	SB4 0-1	Total/NA	Solid	Frozen	
				Preserve	
00-148741-5	SB5 0-1	Total/NA	Solid	Frozen	
				Preserve	
0-148741-6	SB6 0-1	Total/NA	Solid	Frozen	
				Preserve	

Prep Batch: 213984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-1 - DL	SB1-POR-2	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
600-148741-2 - DL	SB2 0-1	Total/NA	Solid	TX_1005_S_Pre	213982
000 110711 0		T. ()A.(A	0.111	р	040000
600-148741-3	SB3 0-1	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
600-148741-4	SB4 0-1	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
600-148741-5	SB5 0-1	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
600-148741-6	SB6 0-1	Total/NA	Solid	TX_1005_S_Pre	213982
				р	
MB 600-213984/1-A	Method Blank	Total/NA	Solid	TX_1005_S_Pre	
				р	
LCS 600-213984/2-A	Lab Control Sample	Total/NA	Solid	TX_1005_S_Pre	
				р	
LCSD 600-213984/3-A	Lab Control Sample Dup	Total/NA	Solid	TX_1005_S_Pre	
				р	

HPLC/IC

Analysis Batch: 214169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-1	SB1-POR-2	Soluble	Solid	9056	214196
600-148741-2	SB2 0-1	Soluble	Solid	9056	214196
600-148741-3	SB3 0-1	Soluble	Solid	9056	214196
600-148741-4	SB4 0-1	Soluble	Solid	9056	214196
600-148741-5	SB5 0-1	Soluble	Solid	9056	214196
600-148741-6	SB6 0-1	Soluble	Solid	9056	214196
MB 600-214196/1-A	Method Blank	Soluble	Solid	9056	214196
LCS 600-214196/2-A	Lab Control Sample	Soluble	Solid	9056	214196
600-148741-1 MS	SB1-POR-2	Soluble	Solid	9056	214196
600-148741-1 MSD	SB1-POR-2	Soluble	Solid	9056	214196

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HPLC/IC (Continued)

Leach Batch: 214196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-1	SB1-POR-2	Soluble	Solid	DI Leach	
600-148741-2	SB2 0-1	Soluble	Solid	DI Leach	
600-148741-3	SB3 0-1	Soluble	Solid	DI Leach	
600-148741-4	SB4 0-1	Soluble	Solid	DI Leach	
600-148741-5	SB5 0-1	Soluble	Solid	DI Leach	
600-148741-6	SB6 0-1	Soluble	Solid	DI Leach	
MB 600-214196/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 600-214196/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
600-148741-1 MS	SB1-POR-2	Soluble	Solid	DI Leach	
600-148741-1 MSD	SB1-POR-2	Soluble	Solid	DI Leach	

General Chemistry

Analysis Batch: 214024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-148741-1	SB1-POR-2	Total/NA	Solid	Moisture	
600-148741-2	SB2 0-1	Total/NA	Solid	Moisture	
600-148741-3	SB3 0-1	Total/NA	Solid	Moisture	
600-148741-4	SB4 0-1	Total/NA	Solid	Moisture	
600-148741-5	SB5 0-1	Total/NA	Solid	Moisture	
600-148741-6	SB6 0-1	Total/NA	Solid	Moisture	
600-148741-5 DU	SB5 0-1	Total/NA	Solid	Moisture	

2 3 4 5 6 7 8 9 10 11

Client Samp Date Collected Date Received:	: 05/22/17 16:0	0						Lab Sample		0-148741-1 Matrix: Solid
Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			214024	05/30/17 17:29	B1K	TAL HOU
Client Samp Date Collected Date Received:	: 05/22/17 16:0	0						Lab Sample		0-148741-1 Matrix: Solid : Solids: 68.1
 [Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep				4 g	10 mL	214085	05/31/17 11:00		TAL HOU
Total/NA	Analysis	8260B		4	100 uL	5 mL	214197	06/01/17 22:43	KLV	TAL HOU
Total/NA	Pre Prep	Frozen Preserve	DL				213982	05/26/17 17:30	NVP	TAL HOU
Total/NA	Prep	TX 1005 S Prep	DL		10.06 g	10.00 mL	213984	05/30/17 10:58	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	10	Ū		213950	05/31/17 10:12	RJV	TAL HOU
Soluble	Leach	DI Leach			4.92 g	50 mL	214196	06/01/17 10:39	DAW	TAL HOU
Soluble	Analysis	9056		500	-		214169	06/01/17 12:42	DAW	TAL HOU
Client Samp	le ID: SB2 0-	.1						Lab Sample	e ID: 60	0-148741-2
Date Collected	: 05/22/17 16:0	5								Matrix: Solid
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			214024	05/30/17 17:29	B1K	TAL HOU
Client Samp	le ID: SB2 0-	.1						Lab Sample	e ID: 60	0-148741-2
Date Collected	: 05/22/17 16:0	5								Matrix: Solid Solids: 70.0

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			4 g	10 mL	214085	05/31/17 11:00	KLV	TAL HOU
Total/NA	Analysis	8260B		10	100 uL	5 mL	214291	06/02/17 18:45	KLV	TAL HOU
Total/NA	Pre Prep	Frozen Preserve	DL				213982	05/26/17 17:30	NVP	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		10.04 g	10.00 mL	213984	05/30/17 10:58	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	50			213948	05/31/17 00:43	RJV	TAL HOU
Soluble	Leach	DI Leach			5.04 g	50 mL	214196	06/01/17 10:39	DAW	TAL HOU
Soluble	Analysis	9056		500			214169	06/01/17 13:38	DAW	TAL HOU

Client Sample ID: SB3 0-1 Date Collected: 05/22/17 16:08 Date Received: 05/26/17 10:04

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			214024	05/30/17 17:29	B1K	TAL HOU

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Lab Sample ID: 600-148741-3

Matrix: Solid

Lab Sample ID: 600-148741-4

Lab Sample ID: 600-148741-5

Matrix: Solid

Matrix: Solid

ate Collected	le ID: SB3 0- : 05/22/17 16:0 : 05/26/17 10:04	8						Lab Sample	ample ID: 600-148741-3 Matrix: Solid Percent Solids: 82.3		
Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab	
Total/NA	Prep	5030B			4.76 g	5 mL	214003	05/30/17 12:50	WS1	TAL HOU	
Total/NA	Analysis	8260B		1	5 g	5 g	214018	05/31/17 01:06	WS1	TAL HOU	
Total/NA	Pre Prep	Frozen Preserve					213982	05/26/17 17:30	NVP	TAL HOU	
Total/NA	Prep	TX_1005_S_Prep			10.05 g	10.00 mL	213984	05/30/17 10:58	NVP	TAL HOU	
Total/NA	Analysis	TX 1005		1			213948	05/30/17 19:34	RJV	TAL HOU	
Soluble	Leach	DI Leach			5.06 g	50 mL	214196	06/01/17 10:39	DAW	TAL HOU	
Soluble	Analysis	9056		500			214169	06/01/17 13:56	DAW	TAL HOU	

Client Sample ID: SB4 0-1 Date Collected: 05/22/17 16:12

Date Received: 05/26/17 10:04

Ргер Туре	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			214024	05/30/17 17:29	B1K	TAL HOU

Client Sample ID: SB4 0-1	Lab Sample ID: 600-148741-4
Date Collected: 05/22/17 16:12	Matrix: Solid
Date Received: 05/26/17 10:04	Percent Solids: 80.1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.29 g	5 mL	214003	05/30/17 12:50	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	214018	05/31/17 01:31	WS1	TAL HOU
Total/NA	Pre Prep	Frozen Preserve					213982	05/26/17 17:30	NVP	TAL HOU
Total/NA	Prep	TX_1005_S_Prep			10.02 g	10.00 mL	213984	05/30/17 10:58	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1			213948	05/30/17 20:09	RJV	TAL HOU
Soluble	Leach	DI Leach			4.95 g	50 mL	214196	06/01/17 10:39	DAW	TAL HOU
Soluble	Analysis	9056		500			214169	06/01/17 14:15	DAW	TAL HOU

Client Sample ID: SB5 0-1

Date Collected: 05/22/17 16:15 Date Received: 05/26/17 10:04

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			214024	05/30/17 17:31	B1K	TAL HOU

Client Samp	le ID: SB5 ()-1						Lab Sample	e ID: 60	0-148741-5
Date Collected	I: 05/22/17 16:	15								Matrix: Solid
Date Received	: 05/26/17 10:	04							Percent	t Solids: 83.2
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Pren	5030B			5 47 a	5 ml	214003	05/30/17 12:50	WS1	

Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			5.47 g	5 mL	214003	05/30/17 12:50	WS1	TAL HOU
Total/NA	Analysis	8260B		1	5 g	5 g	214018	05/31/17 01:56	WS1	TAL HOU
Total/NA	Pre Prep	Frozen Preserve					213982	05/26/17 17:30	NVP	TAL HOU

TestAmerica Houston

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					Chronicle	;				
	olf Environmen							TestAmerica	Job ID: 6	00-148741-1
roject/Site: Do	lby No.1 - 1700)51								
Client Samp	le ID: SB5 0-	.1						Lab Sample	e ID: 60	0-148741-5
	: 05/22/17 16:1									Matrix: Solid
Date Received:	: 05/26/17 10:04	4							Percent	Solids: 83.2
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	TX_1005_S_Prep			10.09 g	10.00 mL	213984	05/30/17 10:58	NVP	TAL HOU
Total/NA	Analysis	TX 1005		1			213948	05/30/17 20:43	RJV	TAL HOU
Soluble	Leach	DI Leach			5.07 g	50 mL	214196	06/01/17 10:39	DAW	TAL HOU
Soluble	Analysis	9056		500	-		214169	06/01/17 14:33	DAW	TAL HOU
-										
liont Samn		1						Lab Sample	e ID: 60	0-148741-6
Juent Samp	10 ID: SB6 0-	· [
-	le ID: SB6 0- : 05/22/17 16:20									Matrix: Solid
Date Collected		0								Matrix: Solid
Date Collected	: 05/22/17 16:20 : 05/26/17 10:04	0 4			Initial	Final	Batch			Matrix: Solid
Date Collected	: 05/22/17 16:20 : 05/26/17 10:04 Batch	0 4 Batch	Run	Dil	Initial	Final	Batch	Prepared		
Date Collected	: 05/22/17 16:20 : 05/26/17 10:04	0 4	Run	Dil Factor	Initial Amount	Final Amount	Batch Number 214024		Analyst B1K	Matrix: Solid
Date Collected Date Received: Prep Type	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type	0 4 Batch Method	Run	Factor			Number	Prepared or Analyzed	Analyst	Lab
Date Collected Date Received: Prep Type Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis	0 4 Batch Method Moisture	Run	Factor			Number	Prepared or Analyzed 05/30/17 17:31	Analyst B1K	– Lab TAL HOU
Prep Type Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis	0 4 Batch Method Moisture		Factor			Number	Prepared or Analyzed	Analyst B1K e ID: 600	- Lab TAL HOU 0-148741-6
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis	0 4 Batch Method Moisture		Factor			Number	Prepared or Analyzed 05/30/17 17:31	Analyst B1K e ID: 600	– Lab TAL HOU
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04	0 4 Batch Method Moisture -1 0 4	Run	Factor 1	Amount	Amount	Number 214024	Prepared or Analyzed 05/30/17 17:31 Lab Sample	Analyst B1K e ID: 600	- Lab TAL HOU D-148741-6 Matrix: Solid
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received:	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch	0 4 Batch Method Moisture 1 0 Batch Batch		1 Dil	Amount	Amount	Batch	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared	Analyst B1K e ID: 600 Percent	- Lab TAL HOU 0-148741-6 Matrix: Solid : Solids: 83.7
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received: Prep Type	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch Type	0 4 Batch Method 1 0 4 Batch Batch Moisture 1 0 4 Batch Method		Factor 1	Amount Initial Amount	Amount Final Amount	Number 214024 Batch Number	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared or Analyzed	Analyst B1K e ID: 600 Percent Analyst	Lab TAL HOU D-148741-6 Matrix: Solid Solids: 83.7 Lab
Prep Type Total/NA Prep Type Total/NA Prep Type Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch Type Prep	0 4 Batch Method Moisture -1 0 4 Batch Batch Method 5030B		Factor 1 Dil Factor	Amount Initial Amount 5.21 g	Amount Final Amount 5 mL	Number 214024 Batch Number 214003	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared or Analyzed 05/30/17 12:50	Analyst B1K e ID: 600 Percent Analyst WS1	- Lab TAL HOU 0-148741-6 Matrix: Solid : Solids: 83.7 - Lab TAL HOU
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch Type	0 4 Batch Method Moisture -1 0 4 Batch Batch Method 5030B 8260B		1 Dil	Amount Initial Amount	Amount Final Amount	Number 214024 Batch Number	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared or Analyzed	Analyst B1K e ID: 600 Percent WS1 WS1	Lab TAL HOU D-148741-6 Matrix: Solid Solids: 83.7 Lab
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch Type Prep Analysis Pre Prep	0 4 Batch Method Moisture 1 Batch Method S030B 8260B Frozen Preserve		Factor 1 Dil Factor	Amount Initial Amount 5.21 g 5 g	Amount Final Amount 5 mL 5 g	Number 214024 Batch Number 214003 214018 213982	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared or Analyzed 05/30/17 12:50 05/31/17 02:20 05/26/17 17:30	Analyst B1K e ID: 600 Percent WS1 WS1 NVP	- Lab TAL HOU D-148741-6 Matrix: Solid : Solids: 83.7 - Lab TAL HOU TAL HOU TAL HOU
Prep Type Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Total/NA Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch Type Prep Analysis Pre Prep Prep Prep	0 4 Batch Method Moisture 1 0 4 Batch Moisture 1 0 4 Batch Method 5030B 8260B Frozen Preserve TX_1005_S_Prep		Factor 1 Dil Factor 1	Amount Initial Amount 5.21 g	Amount Final Amount 5 mL	Number 214024 Batch Number 214003 214018 213982 213984	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared or Analyzed 05/30/17 12:50 05/31/17 02:20 05/26/17 17:30 05/30/17 10:58	Analyst B1K e ID: 600 Percent WS1 WS1 WS1 NVP NVP	- Lab TAL HOU D-148741-6 Matrix: Solid : Solids: 83.7 - Lab TAL HOU TAL HOU TAL HOU TAL HOU TAL HOU
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch Type Prep Analysis Pre Prep	0 4 Batch Method Moisture 1 Batch Batch Moisture 1 Batch Batch S030B 8260B Frozen Preserve		Factor 1 Dil Factor	Amount Initial Amount 5.21 g 5 g	Amount Final Amount 5 mL 5 g	Number 214024 Batch Number 214003 214018 213982	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared or Analyzed 05/30/17 12:50 05/31/17 02:20 05/26/17 17:30	Analyst B1K e ID: 600 Percent WS1 WS1 NVP	- Lab TAL HOU D-148741-6 Matrix: Solid : Solids: 83.7 - Lab TAL HOU TAL HOU TAL HOU
Prep Type Total/NA Client Samp Date Collected Date Received: Prep Type Total/NA Total/NA Total/NA Total/NA	: 05/22/17 16:20 : 05/26/17 10:04 Batch Type Analysis Ie ID: SB6 0- : 05/22/17 16:20 : 05/26/17 10:04 Batch Type Prep Analysis Pre Prep Prep Prep	0 4 Batch Method Moisture 1 0 4 Batch Moisture 1 0 4 Batch Method 5030B 8260B Frozen Preserve TX_1005_S_Prep		Factor 1 Dil Factor 1	Amount Initial Amount 5.21 g 5 g	Amount Final Amount 5 mL 5 g	Number 214024 Batch Number 214003 214018 213982 213984	Prepared or Analyzed 05/30/17 17:31 Lab Sample Prepared or Analyzed 05/30/17 12:50 05/31/17 02:20 05/26/17 17:30 05/30/17 10:58	Analyst B1K e ID: 600 Percent WS1 WS1 WS1 NVP NVP	- Lab TAL HOU D-148741-6 Matrix: Solid : Solids: 83.7 - Lab TAL HOU TAL HOU TAL HOU TAL HOU TAL HOU

Laboratory References:

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

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Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

thority	Program		EPA Region	Identification Number	Expiration Date	
as	NELAP	NELAP		T104704223-17-21	10-31-17	
The following analytes	are included in this report, but	t accreditation/certifica	ion is not offered by th	e governing authority:		
The following analytes Analysis Method	are included in this report, bu Prep Method	t accreditation/certifica Matrix	ion is not offered by th Analyi	с с <i>;</i>		
0,	•		Analy	с с <i>;</i>		

	Drinking Water?	Yes No	THE LE/	ADER IN ENVI	THE LEADER IN ENVIRONMENTAL TESTING	TING	
in brochall Curine what	Project Manager	Ne Kach	5	- 	Date 05-123117	Chain of Custody Number	Number
la Maria Stu	Telephone Number	Telephone Number (Area Code)/Fax Number	ar		15	Page	_ of _/
ity State Zip Code	Site Contact		1	Ane	Analysis (Attach list if more space is needed)		
2011 11	Carrier/Waybill Number	iber 12000	Loui of				11
Contract/Purchase Order/Quote No.	Matrix		Containers & Preservatives	X= X=		Condition	opecial instructions/ Conditions of Receipt
Sample I.D. No. and Description (Containers for each sample may be combined on one line) Date	Time Aur Aur Aur Aueous	EONH #OSZH səudun 1105	HOBN HOBN	177 18 18			
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Possible Hazard Identification	Sample Disposal	9 ·		(h)		(A fee may be assessed if samples are retained	e retained
e Required	IN Other		Spe	cify)			
Pro 11		30	Pareived By			Date 573-17	Time 1630
2. Felinguithed By		2	2. Received By Shir VII TI	VITTSY		Date S-710-1	Time
3. Relinduished By	Date	Time 3. Rece	eived By			Date	Time
Comments		5.1	1 324700	RP 5-23-1	1		

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TestAmerica Houston

Sample Receipt Checklist

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

'17 MAY 26 10:04

			Date/Time Received:			
JOB NUMBER:			CLIENT:	Tin	nberw	1014
					lfx	
UNPACKED BY:	SC		CARRIER/DRIVER:	<u>+tti</u>	LIX	
Custody Seal Present:	YES [NO	Number of Coolers Re	eceived:)	
[Temp		Observed Temp	Therm	Them CF	Corrected Temp
Cooler ID	Blank	Trip Blank	(°C)	1D	-(1-2	(°C)
FW	Y/N	Y / N	0.4	<u> </u>	-02	P C
	Y/N	Y/N Y/N				
	Y / N Y / N	Y / N Y / N				
		YIN				
	Y / N	Y/N	1			
	Y / N	Y / N	STIT	1019	\square	
	Y IN	YIN	100000000000000000000000000000000000000	et l		
	Y/N	Y/N			/	
Base samples are>pH 12			Acid preserved are <p< th=""><th>H 2:</th><th>VES</th><th>□ NO</th></p<>	H 2:	VES	□ NO
VOA headspace accepta			NO NA	pon receipt	?	YES NO
COMMENTS:	/	7				
COMMETTS.		/			/	
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Loc: 600 148741

Client: Timberwolf Environmental LLC

Login Number: 148741 List Number: 1

Creator: Justus, Sherry E

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	Refer to Job Narrative for details.
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Job Number: 600-148741-1

List Source: TestAmerica Houston