



July 10, 2015

Ms. Dina Ferguson
Enterprise Field Services, LLC
10500 Heritage Blvd., Ste. 150
San Antonio, TX 78216

Re: ECIRTS 24883
Event Date: January 27, 2015
Lake Avalon – Line O82O83 Release
Carlsbad, Eddy County, New Mexico
Apex Project No. 7250715011.001

Dear Ms. Ferguson:

Per your request, this letter provides a summary of the scope, activities and results for the project referred to as the Lake Avalon – Line O82O83, referred to hereinafter as the “Site”.

Scope

Enterprise Field Services, LLC (Enterprise) requested Apex TITAN, Inc. (Apex) to conduct investigation and remediation activities related to a natural gas liquids release at the above referenced Site. The investigation included assessment, removal of potentially impacted material, confirmation sampling and backfilling of the excavation and production of a written narrative of findings.

Setting

The geographic coordinates for the site are latitude 32.500087, longitude -104.240170 which is located in Eddy County, New Mexico, located north of Carlsbad on property owned by the Bureau of Reclamation. The Site is located along a pipeline segment of the Line O82O83 natural gas pipeline in close proximity to Lake Avalon. A Site Location Map (Figure 1) is provided as an attachment to this letter report.

The Site intersects a lease road and is approximately 400 feet from the shore of Lake Avalon, and contains the O82O83 natural gas line, traversing the site from the north to the south. The area is surrounded by native rangeland utilized by oil and gas production. The pipeline leak vented a small amount of gas, with approximately two (2) to three (3) barrel (bbl) of pipeline liquids released on the surface. The release was immediately abated by Enterprise personnel. The subsurface consists of alluvium and carbonate deposits with a soil cover.

Release Description and Abatement Activities

On January 27, 2015, Enterprise personnel were notified of a leak on the O82O83 pipeline. The line was immediately shut down and appropriate Enterprise personnel were notified. Enterprise personnel noted that there was approximately two (2) to three (3) bbls of pipeline liquid released from the leak. The cause of the release was reported to be internal corrosion.

Site Activities

An initial site visit was conducted on January 29, 2015, by an Apex professional, Mr. Travis Turner, to oversee excavation activities. Wilbros Construction began excavation of the pipeline and impacted material below the release point. A berm was constructed around the existing excavation in order to prevent the spread of contamination to nearby Lake Avalon.

On February 6, 2015, six (6) confirmation soil samples were collected from each wall of the excavation and directly under the point of release (N-Wall, S-Wall, E-Wall, W-Wall and RP). In addition, a sample was taken of the stockpiled material (SP). Figure 3 provides details on confirmation sample locations.

Based on laboratory results, the confirmation soil samples (N-Wall, S-Wall, E-Wall, W-Wall and RP) exhibited TPH and BTEX concentrations below the New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Levels (RRALs).

The confirmation soil samples (N-Wall, S-Wall, E-Wall and W-Wall) exhibited chloride concentrations ranging from 1,760 milligrams per Kilogram (mg/Kg) to 2,690 mg/Kg, which are above the NMOCD RRALs. However, the laboratory results of the background confirmation soil samples (BKG-1 and BKG-2) exhibited chloride concentrations ranging from 1,340 mg/Kg to 2,390 mg/Kg. Therefore, based on the sample results from the background samples, it can be assumed that the chloride concentrations found in the final confirmation soil samples from the excavation naturally occur in the soil in the immediate vicinity of the pipeline.

Final excavation dimensions were approximately 25 feet long by 19 feet wide with a depth of approximately 10 feet at the release point. Impacted soil was removed and collected into a stockpile on Site. A Site Details Plan (Figure 3) is provided as an attachment to this letter report.

All soil samples were collected in laboratory supplied glass containers, immediately cooled to approximately 4° C, transported under proper chain-of-custody procedures and documentation, and submitted to Trace Analysis laboratory in Midland, Texas. Samples were analyzed for total petroleum hydrocarbons, gasoline range organics and diesel range organics, (TPH GRO/DRO) by EPA Method 8015 extended to C-35, benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021B and chlorides utilizing EPA Method 300.0. All soil sample analytical results, both confirmation and stockpile samples, were below the NMOCD RRALs. A summary of concentrations in Table 1- Soil Sample Analytical Results and laboratory reports are provided as attachments to this letter report.

Backfill of the excavation was completed on May 15, 2015. The stockpiled soils were taken for disposal to Lea Landfill, east of Carlsbad, New Mexico, and the excavation was backfilled with clean fill material. The area was returned to original surface grade.

If you have any questions about this letter or require anything further, please feel free to call either of the undersigned at (214) 350-5469.

Sincerely,
Apex Titan



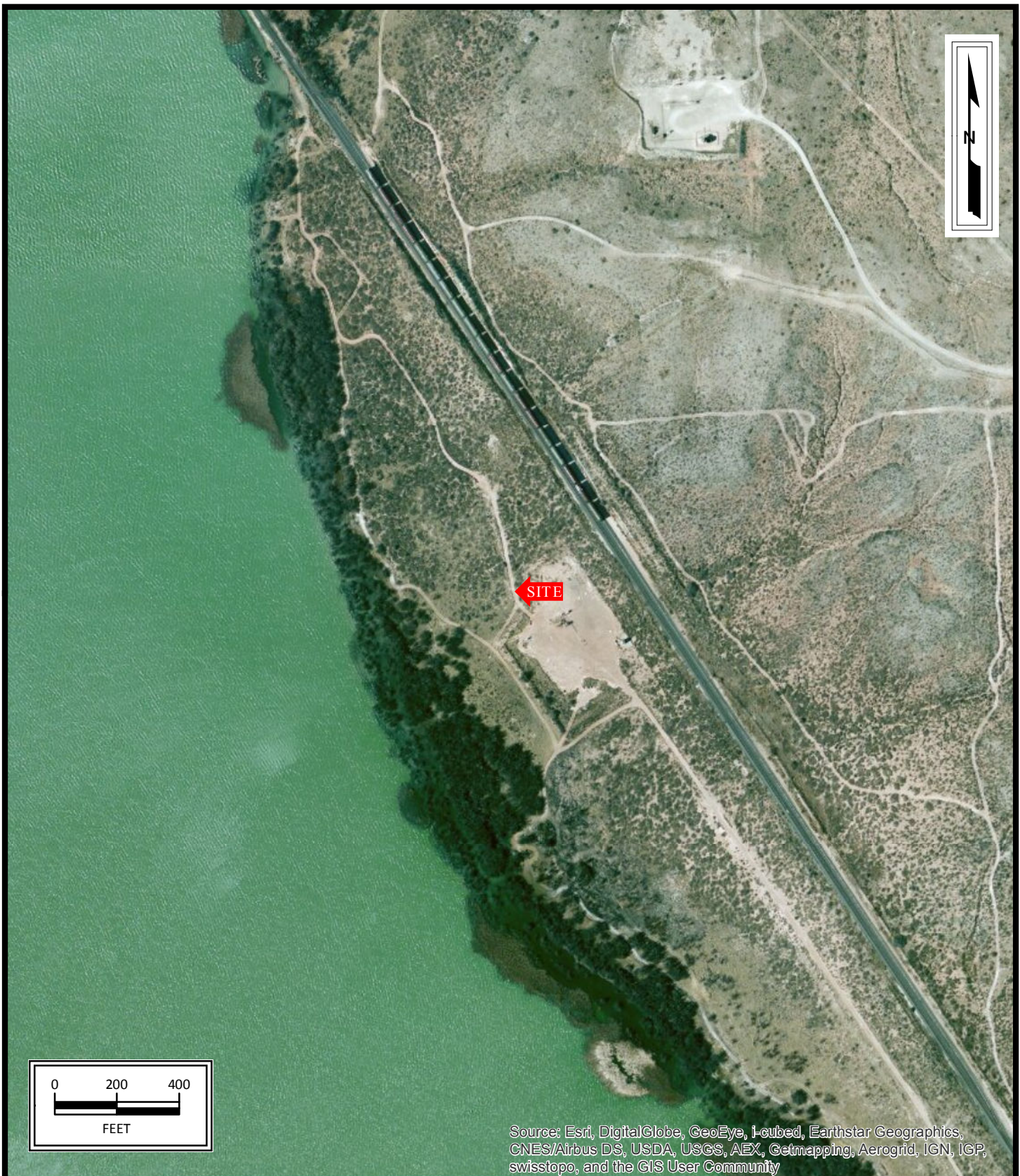
Karolanne Toby
Project Geologist



Liz Scaggs, P.G.
Division Manager

Attachments:

Figure 1- Site Location Map
Figure 2- Site Vicinity Map
Figure 3 - Site Details Map
Table 1- Soil Sample Analytical Results
Laboratory Reports
Disposal Documentation



Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

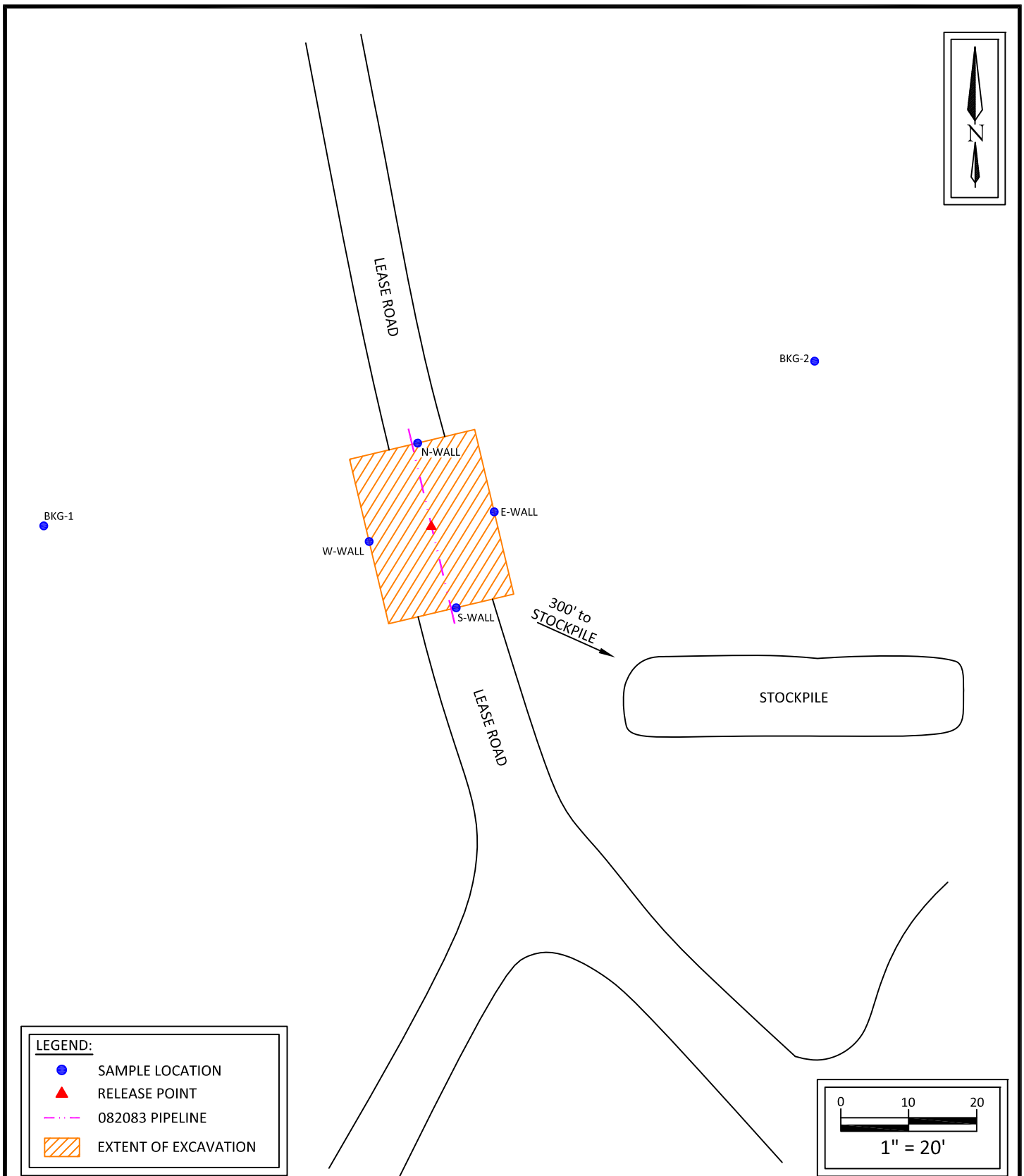
Lake Avalon
Carlsbad, Eddy County, New Mexico
32.500087N, 104.24170W

Project No. 7250715011



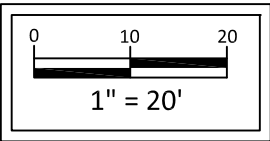
Apex TITAN, Inc.
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A Subsidiary of Apex Companies, LLC

FIGURE 2
Site Vicinity Map



LEGEND:

- SAMPLE LOCATION
- ▲ RELEASE POINT
- - - 082083 PIPELINE
- ▨ EXTENT OF EXCAVATION



Lake Avalon
 Carlsbad, Eddy County, New Mexico
 32.500087N, 104.240170W

Project No. 7250715011



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FIGURE 3
Site Plan Impacted Area



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Lake Avalon

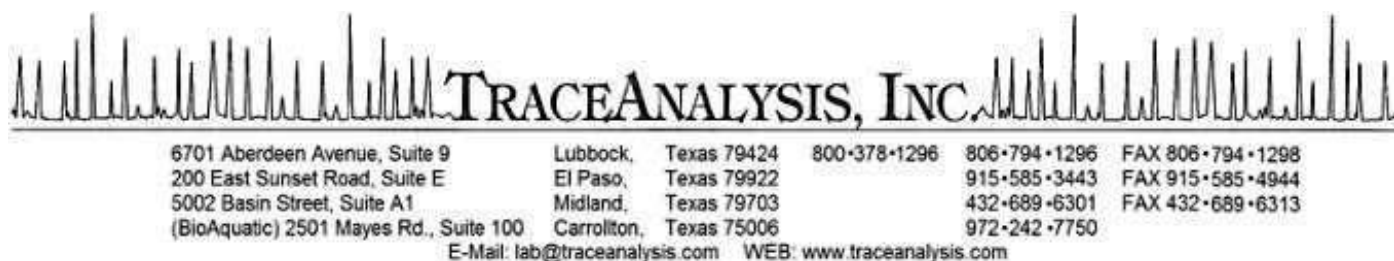
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH GRO/DRO (mg/Kg)	Chlorides (mg/Kg)
New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Levels (RRALs) (Total Ranking Score: 10)											
New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Level			10	NE	NE	NE	50	NE	NE	1,000	1,000
CONFIRMATION SAMPLE ANALYTICAL RESULTS											
N-Wall	2/6/2015	8	<0.0200	0.0213	<0.0200	0.0427	0.0640	<50.0	<50.0	<100.0	2,690
S-Wall	2/6/2015	8	<0.0200	<0.0200	<0.0200	<0.0200	<0.0800	<50.0	<50.0	<100.0	2,000
E-Wall	2/6/2015	8	<0.0200	<0.0200	<0.0200	<0.0200	<0.0800	<50.0	<50.0	<100.0	1,760
W-Wall	2/6/2015	8	<0.0200	<0.0200	<0.0200	<0.0200	<0.0800	<50.0	<50.0	<100.0	2,100
RP	2/6/2015	10	0.0509	0.0674	<0.0200	0.0373	0.116	<50.0	<50.0	<100.0	29.0
STOCKPILE SAMPLE ANALYTICAL RESULTS											
SP	2/6/2015	NA	<0.0200	0.0673	0.0357	0.376	0.412	<50.0	<50.0	<100.0	978
BACKGROUND SAMPLE ANALYTICAL RESULTS											
BKG-1	4/20/2015	6	NA	NA	NA	NA	NA	NA	NA	NA	2,390
BKG-2	4/20/2015	6	NA	NA	NA	NA	NA	NA	NA	NA	1,340

mg/Kg- milligrams per Kilograms

Note: Concentrations in **bold** and yellow exceed the applicable OCD Remediation Action Level

NA-Not Applicable

NE- Not Established



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Will Ferguson
APEX/Titan
2351 W. Northwest Hwy.
Suite 3321
Dallas, Tx, 75220

Report Date: February 16, 2015

Work Order: 15020913



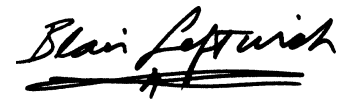
Project Name: Avalon Lake
Project Number: 7250715011.04

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
386164	N-Wall	soil	2015-02-06	15:10	2015-02-09
386165	S-Wall	soil	2015-02-06	15:12	2015-02-09
386166	E-Wall	soil	2015-02-06	15:14	2015-02-09
386167	W-Wall	soil	2015-02-06	15:16	2015-02-09
386168	RP	soil	2015-02-06	15:18	2015-02-09
386169	SP	soil	2015-02-06	15:25	2015-02-09

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

A handwritten signature in black ink, reading "Blair Leftwich". The signature is written in a cursive style with a prominent horizontal stroke at the end.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

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Case Narrative

Samples for project Avalon Lake were received by TraceAnalysis, Inc. on 2015-02-09 and assigned to work order 15020913. Samples for work order 15020913 were received intact at a temperature of 3.4 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	100810	2015-02-09 at 14:42	119256	2015-02-11 at 07:40
Chloride (Titration)	SM 4500-Cl B	100917	2015-02-11 at 19:00	119331	2015-02-12 at 18:00
TX1005 Extended - NEW	TX1005	100901	2015-02-11 at 16:30	119373	2015-02-16 at 10:46

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15020913 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Avalon Lake

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Analytical Report

Sample: 386164 - N-Wall

Laboratory: Midland
Analysis: BTEX
QC Batch: 119256
Prep Batch: 100810

Analytical Method: S 8021B
Date Analyzed: 2015-02-11
Sample Preparation: 2015-02-09

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	5	<0.0200	mg/Kg	1	0.0200
Toluene		5	0.0213	mg/Kg	1	0.0200
Ethylbenzene	U	5	<0.0200	mg/Kg	1	0.0200
Xylene		5	0.0427	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.76	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			2.04	mg/Kg	1	2.00	102	70 - 130

Sample: 386164 - N-Wall

Laboratory: Lubbock
Analysis: Chloride (Titration)
QC Batch: 119331
Prep Batch: 100917

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-02-12
Sample Preparation: 2015-02-12

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs	1	2690	mg/Kg	5	5.00

Sample: 386164 - N-Wall

Laboratory: Midland
Analysis: TX1005 Extended - NEW
QC Batch: 119373
Prep Batch: 100901

Analytical Method: TX1005
Date Analyzed: 2015-02-16
Sample Preparation: 2015-02-11

Prep Method: N/A
Analyzed By: SC
Prepared By: SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
C6-C12	Jb, Qs	5	<50.0	mg/Kg	1	50.0

continued ...

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sample 386164 continued ...

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
>C12-C35	Qs	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			118	mg/Kg	1	100	118	70 - 130
n-Octane			111	mg/Kg	1	100	111	70 - 130
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Sample: 386165 - S-Wall

Laboratory: Midland
Analysis: BTEX
QC Batch: 119256
Prep Batch: 100810

Analytical Method: S 8021B
Date Analyzed: 2015-02-11
Sample Preparation: 2015-02-09

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	5	<0.0200	mg/Kg	1	0.0200
Toluene	U	5	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	5	<0.0200	mg/Kg	1	0.0200
Xylene	U	5	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.63	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	70 - 130

Sample: 386165 - S-Wall

Laboratory: Lubbock
Analysis: Chloride (Titration)
QC Batch: 119331
Prep Batch: 100917

Analytical Method: SM 4500-Cl B
Date Analyzed: 2015-02-12
Sample Preparation: 2015-02-12

Prep Method: N/A
Analyzed By: HJ
Prepared By: HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs	1	2000	mg/Kg	5	5.00

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Sample: 386165 - S-Wall

Laboratory:	Midland	Analytical Method:	TX1005	Prep Method:	N/A
Analysis:	TX1005 Extended - NEW	Date Analyzed:	2015-02-16	Analyzed By:	SC
QC Batch:	119373	Sample Preparation:	2015-02-11	Prepared By:	SC
Prep Batch:	100901				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
C6-C12	Jb, Qs	5	<50.0	mg/Kg	1	50.0
>C12-C35	Qs, U	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			118	mg/Kg	1	100	118	70 - 130
n-Octane			113	mg/Kg	1	100	113	70 - 130
n-Tricosane			117	mg/Kg	1	100	117	70 - 130

Sample: 386166 - E-Wall

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2015-02-11	Analyzed By:	AK
QC Batch:	119256	Sample Preparation:	2015-02-09	Prepared By:	AK
Prep Batch:	100810				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	5	<0.0200	mg/Kg	1	0.0200
Toluene	U	5	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	5	<0.0200	mg/Kg	1	0.0200
Xylene	U	5	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.73	mg/Kg	1	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

Sample: 386166 - E-Wall

Laboratory:	Lubbock	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2015-02-12	Analyzed By:	HJ
QC Batch:	119331	Sample Preparation:	2015-02-12	Prepared By:	HJ
Prep Batch:	100917				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs	1	1760	mg/Kg	5	5.00

Sample: 386166 - E-Wall

Laboratory: Midland
Analysis: TX1005 Extended - NEW
QC Batch: 119373
Prep Batch: 100901

Analytical Method: TX1005
Date Analyzed: 2015-02-16
Sample Preparation: 2015-02-11

Prep Method: N/A
Analyzed By: SC
Prepared By: SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
C6-C12	Jb, Qs	5	<50.0	mg/Kg	1	50.0
>C12-C35	Qs	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	Qsr	Qsr	160	mg/Kg	1	100	160	70 - 130
n-Octane	Qsr	Qsr	149	mg/Kg	1	100	149	70 - 130
n-Tricosane	Qsr	Qsr	158	mg/Kg	1	100	158	70 - 130

Sample: 386167 - W-Wall

Laboratory: Midland
Analysis: BTEX
QC Batch: 119256
Prep Batch: 100810

Analytical Method: S 8021B
Date Analyzed: 2015-02-11
Sample Preparation: 2015-02-09

Prep Method: S 5035
Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	5	<0.0200	mg/Kg	1	0.0200
Toluene	U	5	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	U	5	<0.0200	mg/Kg	1	0.0200
Xylene	U	5	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.75	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.97	mg/Kg	1	2.00	98	70 - 130

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Sample: 386167 - W-Wall

Laboratory:	Lubbock	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2015-02-12	Analyzed By:	HJ
QC Batch:	119331	Sample Preparation:	2015-02-12	Prepared By:	HJ
Prep Batch:	100917				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs	1	2100	mg/Kg	5	5.00

Sample: 386167 - W-Wall

Laboratory:	Midland	Analytical Method:	TX1005	Prep Method:	N/A
Analysis:	TX1005 Extended - NEW	Date Analyzed:	2015-02-16	Analyzed By:	SC
QC Batch:	119373	Sample Preparation:	2015-02-11	Prepared By:	SC
Prep Batch:	100901				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
C6-C12	Jb, Qs	5	<50.0	mg/Kg	1	50.0
>C12-C35	Qs	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	Qsr	Qsr	164	mg/Kg	1	100	164	70 - 130
n-Octane	Qsr	Qsr	152	mg/Kg	1	100	152	70 - 130
n-Tricosane	Qsr	Qsr	162	mg/Kg	1	100	162	70 - 130

Sample: 386168 - RP

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2015-02-11	Analyzed By:	AK
QC Batch:	119256	Sample Preparation:	2015-02-09	Prepared By:	AK
Prep Batch:	100810				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene		5	0.0509	mg/Kg	1	0.0200
Toluene		5	0.0674	mg/Kg	1	0.0200
Ethylbenzene	U	5	<0.0200	mg/Kg	1	0.0200
Xylene		5	0.0373	mg/Kg	1	0.0200

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Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.67	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.92	mg/Kg	1	2.00	96	70 - 130

Sample: 386168 - RP

Laboratory:	Lubbock	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Analysis:	Chloride (Titration)	Date Analyzed:	2015-02-12	Analyzed By:	HJ
QC Batch:	119331	Sample Preparation:	2015-02-12	Prepared By:	HJ
Prep Batch:	100917				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs	1	29.0	mg/Kg	1	5.00

Sample: 386168 - RP

Laboratory:	Midland	Analytical Method:	TX1005	Prep Method:	N/A
Analysis:	TX1005 Extended - NEW	Date Analyzed:	2015-02-16	Analyzed By:	SC
QC Batch:	119373	Sample Preparation:	2015-02-11	Prepared By:	SC
Prep Batch:	100901				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
C6-C12	Jb, Qs	5	<50.0	mg/Kg	1	50.0
>C12-C35	Qs	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			125	mg/Kg	1	100	125	70 - 130
n-Octane			117	mg/Kg	1	100	117	70 - 130
n-Tricosane			122	mg/Kg	1	100	122	70 - 130

Sample: 386169 - SP

Laboratory:	Midland	Analytical Method:	S 8021B	Prep Method:	S 5035
Analysis:	BTEX	Date Analyzed:	2015-02-11	Analyzed By:	AK
QC Batch:	119256	Sample Preparation:	2015-02-09	Prepared By:	AK
Prep Batch:	100810				

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Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	U	5	<0.0200	mg/Kg	1	0.0200
Toluene		5	0.0673	mg/Kg	1	0.0200
Ethylbenzene		5	0.0357	mg/Kg	1	0.0200
Xylene		5	0.376	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.69	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.93	mg/Kg	1	2.00	96	70 - 130

Sample: 386169 - SP

Laboratory: Lubbock
Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A
QC Batch: 119331 Date Analyzed: 2015-02-12 Analyzed By: HJ
Prep Batch: 100917 Sample Preparation: 2015-02-12 Prepared By: HJ

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	Qs	1	978	mg/Kg	5	5.00

Sample: 386169 - SP

Laboratory: Midland
Analysis: TX1005 Extended - NEW Analytical Method: TX1005 Prep Method: N/A
QC Batch: 119373 Date Analyzed: 2015-02-16 Analyzed By: SC
Prep Batch: 100901 Sample Preparation: 2015-02-11 Prepared By: SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
C6-C12	Jb, Qs	5	<50.0	mg/Kg	1	50.0
>C12-C35	Qs	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			119	mg/Kg	1	100	119	70 - 130
n-Octane			112	mg/Kg	1	100	112	70 - 130
n-Tricosane			118	mg/Kg	1	100	118	70 - 130

Method Blanks

Method Blank (1) QC Batch: 119256

QC Batch: 119256 Date Analyzed: 2015-02-11 Analyzed By: AK
Prep Batch: 100810 QC Preparation: 2015-02-09 Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		5	<0.00533	mg/Kg	0.02
Toluene		5	<0.00645	mg/Kg	0.02
Ethylbenzene		5	<0.0116	mg/Kg	0.02
Xylene		5	<0.00874	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.67	mg/Kg	1	2.00	84	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	mg/Kg	1	2.00	99	70 - 130

Method Blank (1) QC Batch: 119331

QC Batch: 119331 Date Analyzed: 2015-02-12 Analyzed By: HJ
Prep Batch: 100917 QC Preparation: 2015-02-11 Prepared By: HJ

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride		1	<3.05	mg/Kg	5

Method Blank (1) QC Batch: 119373

QC Batch: 119373 Date Analyzed: 2015-02-16 Analyzed By: SC
Prep Batch: 100901 QC Preparation: 2015-02-11 Prepared By: SC

Parameter	Flag	Cert	MDL Result	Units	RL
C6-C12		5	9.54	mg/Kg	50
>C12-C35		5	<7.50	mg/Kg	50

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Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	Q _{sr}	Q _{sr}		147	mg/Kg	1	100	147	70 - 130
n-Octane	Q _{sr}	Q _{sr}		137	mg/Kg	1	100	137	70 - 130
n-Tricosane	Q _{sr}	Q _{sr}		147	mg/Kg	1	100	147	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 119256
Prep Batch: 100810

Date Analyzed: 2015-02-11
QC Preparation: 2015-02-09

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	1.55	mg/Kg	1	2.00	<0.00533	78	70 - 130
Toluene		5	1.57	mg/Kg	1	2.00	<0.00645	78	70 - 130
Ethylbenzene		5	1.66	mg/Kg	1	2.00	<0.0116	83	70 - 130
Xylene		5	5.10	mg/Kg	1	6.00	<0.00874	85	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	1.57	mg/Kg	1	2.00	<0.00533	78	70 - 130	1	20
Toluene		5	1.62	mg/Kg	1	2.00	<0.00645	81	70 - 130	3	20
Ethylbenzene		5	1.73	mg/Kg	1	2.00	<0.0116	86	70 - 130	4	20
Xylene		5	5.24	mg/Kg	1	6.00	<0.00874	87	70 - 130	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.73	1.66	mg/Kg	1	2.00	86	83	70 - 130
4-Bromofluorobenzene (4-BFB)	1.93	1.92	mg/Kg	1	2.00	96	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 119331
Prep Batch: 100917

Date Analyzed: 2015-02-12
QC Preparation: 2015-02-11

Analyzed By: HJ
Prepared By: HJ

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2400	mg/Kg	5	2500	<15.2	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

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control spikes continued ...

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2350	mg/Kg	5	2500	<15.2	94	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 119373
Prep Batch: 100901

Date Analyzed: 2015-02-16
QC Preparation: 2015-02-11

Analyzed By: SC
Prepared By: SC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
C6-C12		5	225	mg/Kg	1	250	9.54	86	75 - 125
>C12-C35		5	251	mg/Kg	1	250	<7.50	100	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
C6-C12		5	239	mg/Kg	1	250	9.54	92	75 - 125	6	20
>C12-C35		5	266	mg/Kg	1	250	<7.50	106	75 - 125	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Triacontane	96.9	98.5	mg/Kg	1	100	97	98	70 - 130
n-Octane	95.7	99.0	mg/Kg	1	100	96	99	70 - 130
n-Tricosane	98.2	102	mg/Kg	1	100	98	102	70 - 130

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 386169

QC Batch: 119256
Prep Batch: 100810

Date Analyzed: 2015-02-11
QC Preparation: 2015-02-09

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		5	1.56	mg/Kg	1	2.00	<0.00533	78	70 - 130
Toluene		5	1.69	mg/Kg	1	2.00	0.0673	81	70 - 130
Ethylbenzene		5	1.81	mg/Kg	1	2.00	0.0357	89	70 - 130
Xylene		5	5.80	mg/Kg	1	6.00	0.376	90	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		5	1.57	mg/Kg	1	2.00	<0.00533	78	70 - 130	1	20
Toluene		5	1.67	mg/Kg	1	2.00	0.0673	80	70 - 130	1	20
Ethylbenzene		5	1.81	mg/Kg	1	2.00	0.0357	89	70 - 130	0	20
Xylene		5	5.82	mg/Kg	1	6.00	0.376	91	70 - 130	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.66	1.69	mg/Kg	1	2	83	84	70 - 130
4-Bromofluorobenzene (4-BFB)	1.99	1.92	mg/Kg	1	2	100	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 386189

QC Batch: 119331
Prep Batch: 100917

Date Analyzed: 2015-02-12
QC Preparation: 2015-02-11

Analyzed By: HJ
Prepared By: HJ

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	5280	mg/Kg	5	2500	3030	90	80 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

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matrix spikes continued ...

Table 1.1: Spices Screened for												
Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit	
Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit	
Chloride	Q _s	Q _s	1	4840	mg/Kg	5	0.00	3030	72	80 - 120	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 386240

QC Batch: 119373
Prep Batch: 100901

Date Analyzed: 2015-02-16
QC Preparation: 2015-02-11

Analyzed By: SC
Prepared By: SC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
C6-C12	Q _s	Q _s	5	381	mg/Kg	1	250	56.1	130
>C12-C35	Q _s	Q _s	5	1730	mg/Kg	1	250	962	307

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param			MSD			Spike	Matrix		Rec.		RPD	
	F	C	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit	
C6-C12		5	346	mg/Kg	1	250	56.1	116	75 - 125	10	20	
>C12-C35	Q _s	Q _s	5	1580	mg/Kg	1	250	962	247	75 - 125	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

			MS	MSD			Spike	MS	MSD	Rec.
Surrogate			Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
n-Triacontane	Q _{sr}	Q _{sr}	136	118	mg/Kg	1	100	136	118	70 - 130
n-Octane			118	113	mg/Kg	1	100	118	113	70 - 130
n-Tricosane	Q _{sr}	Q _{sr}	167	158	mg/Kg	1	100	167	158	70 - 130

Calibration Standards

Standard (CCV-1)

QC Batch: 119256

Date Analyzed: 2015-02-11

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/kg	0.100	0.0893	89	80 - 120	2015-02-11
Toluene		5	mg/kg	0.100	0.0869	87	80 - 120	2015-02-11
Ethylbenzene		5	mg/kg	0.100	0.0882	88	80 - 120	2015-02-11
Xylene		5	mg/kg	0.300	0.266	89	80 - 120	2015-02-11

Standard (CCV-2)

QC Batch: 119256

Date Analyzed: 2015-02-11

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		5	mg/kg	0.100	0.0942	94	80 - 120	2015-02-11
Toluene		5	mg/kg	0.100	0.0929	93	80 - 120	2015-02-11
Ethylbenzene		5	mg/kg	0.100	0.0927	93	80 - 120	2015-02-11
Xylene		5	mg/kg	0.300	0.280	93	80 - 120	2015-02-11

Standard (ICV-1)

QC Batch: 119331

Date Analyzed: 2015-02-12

Analyzed By: HJ

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	100	100	100	85 - 115	2015-02-12

Standard (CCV-1)

QC Batch: 119331

Date Analyzed: 2015-02-12

Analyzed By: HJ

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Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	100	100	100	85 - 115	2015-02-12

Standard (CCV-1)

QC Batch: 119373

Date Analyzed: 2015-02-16

Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
C6-C12		5	mg/Kg	250	223	89	75 - 125	2015-02-16
>C12-C35		5	mg/Kg	250	264	106	75 - 125	2015-02-16

Standard (CCV-2)

QC Batch: 119373

Date Analyzed: 2015-02-16

Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
C6-C12		5	mg/Kg	250	223	89	75 - 125	2015-02-16
>C12-C35		5	mg/Kg	250	291	116	75 - 125	2015-02-16

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

15020913

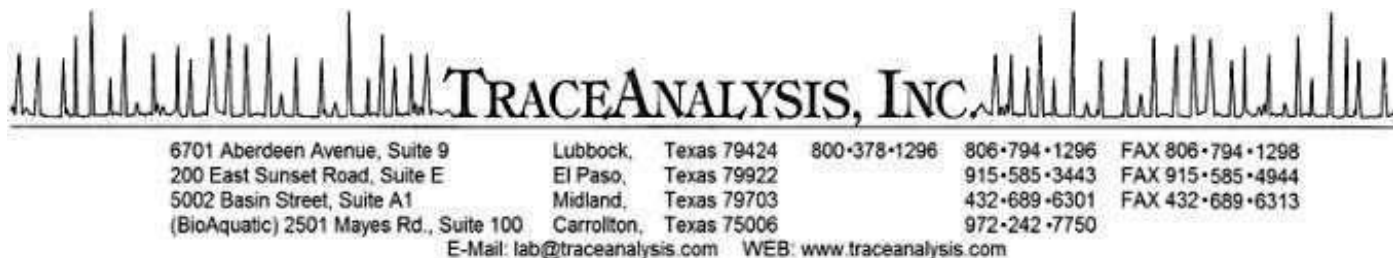
CHAIN OF CUSTODY RECORD

APEX		Office Location		Midland TX		Laboratory: Tule Arroyo 43.5		Address: 5002 Basin		Contact: Angie Melune		Phone:		PO/ISO #:		AnalYSIS REQUESTED		Lab use only					
Project Manager Will Ferguson		Sampler's Name		Project Name		No/Type of Containers		Identifying Marks of Sample(s)		Depth		Depth		VOA		A/G		250		Glass Jar		P/O	
Travis Turner		725071501101 Avalon Lake		C o m p		G r a b		Time		Date		Matrix		Date		Time		Date		Time		Date	
S	216	1510	X	N-wall	8'	8'	X																
		1512		S-wall	8'	8'																	
		1514		E-wall	8'	8'																	
		1516		W-wall	8'	8'																	
		1518		RP	10'	10'																	
		1525	X	SP																			
S	246	15:40		Background																			
S	246	15:42		" 10"																			
Turn around time		<input checked="" type="checkbox"/> Normal	<input type="checkbox"/> 25% Rush	<input type="checkbox"/> 50% Rush	<input type="checkbox"/> 100% Rush																		
Relinquished by (Signature)		Date: 2/9/15		Time: 9:57		Received by: (Signature)		Date: 2/9/15		Time: 9:57		Relinquished by (Signature)		Date: 2/9/15		Time: 9:57		Relinquished by (Signature)		Date: 2/9/15		Time: 9:57	
Relinquished by (Signature)		Date: 2/9/15		Time: 11:55		Received by: (Signature)		Date: 2/9/15		Time: 11:55		Relinquished by (Signature)		Date: 2/9/15		Time: 11:55		Relinquished by (Signature)		Date: 2/9/15		Time: 11:55	
Relinquished by (Signature)		Date: 2/9/15		Time: 11:55		Received by: (Signature)		Date: 2/9/15		Time: 11:55		Relinquished by (Signature)		Date: 2/9/15		Time: 11:55		Relinquished by (Signature)		Date: 2/9/15		Time: 11:55	
Relinquished by (Signature)		Date: 2/9/15		Time: 11:55		Received by: (Signature)		Date: 2/9/15		Time: 11:55		Relinquished by (Signature)		Date: 2/9/15		Time: 11:55		Relinquished by (Signature)		Date: 2/9/15		Time: 11:55	

NOTES:

Added 2 Background samples per client to hold. am 29-15

W - Water A/G - Amber / Or Glass 1 Liter
 WW - Wastewater VOA - 40 ml vial
 L - Liquid 250 ml - Solid
 C - Charcoal tube P/O - Plastic or other
 O - Oil



Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Karolanne Toby
 APEX/Titan
 2351 W. Northwest Hwy.
 Suite 3321
 Dallas, Tx, 75220

Report Date: April 22, 2015

Work Order: 15042102



Project Location: Midland, TX
 Project Name: Lake Avalon
 Project Number: 7250715011.001

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
391272	BKG-1	soil	2015-04-20	17:35	2015-04-21
391273	BKG-2	soil	2015-04-20	17:40	2015-04-21

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
 James Taylor, Assistant Director
 Brian Pellam, Operations Manager

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Case Narrative

Samples for project Lake Avalon were received by TraceAnalysis, Inc. on 2015-04-21 and assigned to work order 15042102. Samples for work order 15042102 were received intact at a temperature of 14.5 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (Titration)	SM 4500-Cl B	102361	2015-04-22 at 13:35	120961	2015-04-22 at 13:36

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 15042102 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 391272 - BKG-1

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	120961	Date Analyzed:	2015-04-22
Prep Batch:	102361	Sample Preparation:	2015-04-22
		Prep Method:	N/A
		Analyzed By:	EM
		Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			2390	mg/Kg	5	4.00

Sample: 391273 - BKG-2

Laboratory:	Midland		
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B
QC Batch:	120961	Date Analyzed:	2015-04-22
Prep Batch:	102361	Sample Preparation:	2015-04-22
		Prep Method:	N/A
		Analyzed By:	EM
		Prepared By:	EM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			1340	mg/Kg	5	4.00

Report Date: April 22, 2015
7250715011.001

Work Order: 15042102
Lake Avalon

Page Number: 5 of 10
Midland, TX

Method Blanks

Method Blank (1) QC Batch: 120961

QC Batch:	120961	Date Analyzed:	2015-04-22	Analyzed By:	EM
Prep Batch:	102361	QC Preparation:	2015-04-22	Prepared By:	EM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 120961
Prep Batch: 102361

Date Analyzed: 2015-04-22
QC Preparation: 2015-04-22

Analyzed By: EM
Prepared By: EM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2390	mg/Kg	5	2500	<19.2	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2390	mg/Kg	5	2500	<19.2	96	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 391273

QC Batch: 120961
Prep Batch: 102361

Date Analyzed: 2015-04-22
QC Preparation: 2015-04-22

Analyzed By: EM
Prepared By: EM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			3830	mg/Kg	5	2500	1350	99	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			3730	mg/Kg	5	2500	1350	95	78.9 - 121	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Calibration Standards

Standard (ICV-1)

QC Batch: 120961				Date Analyzed: 2015-04-22			Analyzed By: EM	
Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-04-22

Standard (CCV-1)

QC Batch: 120961				Date Analyzed: 2015-04-22			Analyzed By: EM	
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2015-04-22

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Attachments

Report Date: April 22, 2015
7250715011.001

Work Order: 15042102
Lake Avalon

Page Number: 10 of 10
Midland, TX

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

WO# 15042102

CHAIN OF CUSTODY RECORD

 APEX Office Location <u>Midland, TX</u>		Laboratory: <u>Trace Analysis</u> Address: <u>5002 Basin St.</u> <u>Midland, TX 79703</u> Contact: _____ Phone: _____ PO/SO #: _____		ANALYSIS REQUESTED <div style="transform: rotate(-45deg); position: absolute; top: 50%; left: 50%; font-weight: bold; font-size: 1.2em;">Chlorides</div>		Lab use only Due Date: _____ Temp. of coolers when received (C°): <u>14.5</u> <div style="display: flex; justify-content: space-around; width: 100%;"> 12345 </div> Page _____ of _____	
		Project Manager <u>Karolanne Tobey</u> Sampler's Name <u>Karolanne Tobey</u>		No/Type of Containers <u>2/402</u>		Lab Sample ID (Lab Use Only) <u>391272</u> <u>391273</u>	
Proj. No. <u>7250715011-001</u> Project Name <u>Lake Avalon</u>		No/Type of Containers <u>2/402</u>		Lab Sample ID (Lab Use Only) <u>391272</u> <u>391273</u>		<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(45deg); transform-origin: center;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(-45deg); transform-origin: center;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(45deg); transform-origin: center;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(-45deg); transform-origin: center;"> <div style="position: absolute; top: 0; left: 0; right: 0; bottom: 0; border: 1px solid black; transform: rotate(45deg); transform-origin: center;"> <div style="position: absolute; top: 0; left: 0; right: 0; 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LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Sotelo

NON-HAZARDOUS WASTE MANIFEST

NO 108654

1. PAGE ___ OF ___

2. TRAILER NO. #10

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3. COMPANY NAME
Enterprise Products

PHONE NO.
(432) 230-1414

4. ADDRESS
2162 Commerce

CITY STATE ZIP
Midland TX 79703

5. PICK-UP DATE
5/15/2015

6. TNRCC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

Non-Regulated, Non Hazardous Waste

8. CONTAINERS
No. Type
1 CM

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

b.

c.

Wt 41,520 45,180 49,120

12. COMMENTS OR SPECIAL INSTRUCTIONS:

082083 PIPELINE RIGHTAWAY HWY 206

TOTAL 135,820

13. WASTE PROFILE NO.

708582

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME
Kin Slaughter

PHONE NO
575-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

SIGNATURE

DATE

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16. TRANSPORTER (1)

NAME: SOTELO'S TRUCKING

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: JOSE SOTELO

EMERGENCY PHONE: (575) 706-3842

18. **TRANSPORTER (1):** Acknowledgment of receipt of material

PRINTED/TYPED NAME Arnoldo Nevarez

SIGNATURE Arnoldo Nevarez DATE 5/15/2015

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. **TRANSPORTER (2):** Acknowledgment of receipt of material

PRINTED/TYPED NAME

SIGNATURE DATE

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

Santa Gonzalez

CELL NO.

DATE 5/15/2015

TIME 8:45

LEA LAND DISPOSAL SITE NEW MEXICO

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257

Sotelo's

NON-HAZARDOUS WASTE MANIFEST

NO **108655**

1. PAGE ___ OF ___

2. TRAILER NO. **# 20/28**

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3. COMPANY NAME
Enterprise Products

PHONE NO.
(432) 230-1414

4. ADDRESS
2162 Commerce

CITY STATE ZIP
Midland TX 79703

5. PICK-UP DATE
5/15/2015

6. TNRC I.D. NO.

7. NAME OR DESCRIPTION OF WASTE SHIPPED:

8. CONTAINERS
No. Type

9. TOTAL
QUANTITY

10. UNIT
Wt/Vol.

11. TEXAS
WASTE ID #

Non-Regulated, Non Hazardous Waste

1

CM

b.

c.

46,740 46,460 51,620

12. COMMENTS OR SPECIAL INSTRUCTIONS:

082083 PIPELINE RIGHTAWAY HWY 208

TOTAL 144,820

13. WASTE PROFILE NO.

708582

14. IN CASE OF EMERGENCY OR SPILL, CONTACT

NAME
Kin Slaughter

PHONE NO
575-887-4048

24-HOUR EMERGENCY NO.

15. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC

PRINTED/TYPED NAME

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DATE

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16. TRANSPORTER (1)

NAME: SOTELO'S TRUCKING

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT: JOSE SOTELO

EMERGENCY PHONE: (575) 708-3842

18. TRANSPORTER (1): Acknowledgment of receipt of material

PRINTED/TYPED NAME Micheal Naylor

SIGNATURE Micheal Naylor DATE 5/15/2015

17. TRANSPORTER (2)

NAME:

TEXAS I.D. NO.

IN CASE OF EMERGENCY CONTACT:

EMERGENCY PHONE:

19. TRANSPORTER (2): Acknowledgment of receipt of material

PRINTED/TYPED NAME _____

SIGNATURE _____ DATE _____

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Lea Land, LLC

ADDRESS:

Mile Marker 64, U.S. Hwy 62/180,
30 Miles East of Carlsbad, NM

PHONE:

575-887-4048

PERMIT NO.

WM-01-035 - New Mexico

20. COMMENTS

21. **DISPOSAL FACILITY'S CERTIFICATION:** I hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes.

AUTHORIZED SIGNATURE

CELL NO.

DATE 5/15/2015

TIME 8:50

GENERATOR: COPIES 1 & 6

DISPOSAL SITE: COPIES 2 & 3

TRANSPORTERS: COPIES 4 & 5

COPY 1