SITE CLOSURE REQUEST

GLADIOLA GATHERING

UNIT D, SECTION 9, TOWNSHIP 13 SOUTH, RANGE 38 EAST
EAST OF TATUM
LEA COUNTY, NEW MEXICO

RP #1762

Prepared for:

Centurion Pipeline L.P.
2200 East County road 90
Midland, Texas 79706

NOVA
safety and environmental

Prepared by:

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March 2008

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Vice President, Technical Services

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1.0 INTRODUCTION AND SITE BACKGROUND

On behalf of Centurion Pipeline L.P. (Centurion), NOVA Safety and Environmental (NOVA) has prepared this Site Closure Request for the site known as Gladiola Gathering. The Gladiola Gathering pipeline is an active 8-inch crude oil pipeline operated by Centurion Pipeline. The release site is located in the Unit D, Section 9, Township 13 South, Range 38 East, Lea County, New Mexico and the site is located on property owned by Mr. Wesley Harris.

On January 19, 2008, Centurion reported a 75 barrel release of crude oil from a 8-inch gathering pipeline located approximately 15 miles southeast of Tatum, New Mexico. A vacuum truck recovered approximately 60 barrels of crude oil immediately following the discovery of the release, resulting in a net loss of approximately 15 barrels of crude oil. The resulting surface stain attributed to the release was approximately 180 feet in length and 20 feet in width. The release was the result of internal corrosion of the 8-inch steel pipeline. A site location map is provided as Figure 1. The Initial Release Notification and Corrective Action (Form C-141) are provided as Appendix C.

2.0 NMOCD SITE CLASSIFICATION

On January 25, 2008, NOVA contacted Mr. Chris Williams of the NMOCD regarding the depth the groundwater in the vicinity of the release site. Mr. Williams indicated groundwater at this site is approximately 70 feet below ground surface (bgs). This depth to groundwater results in a score of 10 being assigned to this site based on the NMOCD ranking criteria. The distance to the nearest water source exceeds 1,000 feet, resulting in no points being assigned to the site on this ranking criterion. There is no surface water body located with 1,000 feet of the site, resulting in no points being assigned on this ranking criterion.

The NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993), indicates the Gladiola Gathering site has a ranking score of 10 points. The soil cleanup levels for a site with a ranking of 10 require benzene concentrations below 10 mg/Kg, total benzene, toluene, ethylbenzene and xylene (BTEX) concentrations below 50 mg/Kg and total petroleum hydrocarbons gasoline range organics / diesel range organics (TPH-GRO/DRO) concentrations below 1,000 mg/Kg.

3.0 SUMMARY OF FIELD ACTIVITIES

From January 20 through February 5, 2008, approximately 2,800 cubic yards (cy) of hydrocarbon impacted soil was excavated from the site. The excavated soil was stockpiled on site pending final disposition of the excavated soil. A Site and Sample Location map is provided as Figure 2.

On January 23, 2008, six excavation sidewall and three floor samples were collected from the main pipeline excavation area measuring approximately 120 feet north and approximately 170 feet south of the leak source. All samples were collected utilizing standard soil sampling protocol as stated in the NMOCD guidelines. Analytical results indicated soil sample North End Wall, 2 ft. located on the north end of the pipeline excavation exhibited a TPH-GRO/DRO

concentration of 1.39 mg/Kg. Analytical results indicated soil sample South End Wall, 2 ft. located at the southern end of the pipeline excavation exhibited a TPH-GRO/DRO concentration of 1.25 mg/Kg. Analytical results indicated soil sample South Central, West Wall, 2.5 ft. located at the southern portion of the pipeline excavation exhibited a TPH-GRO/DRO concentration of 1.79 mg/Kg. Benzene concentrations and total BTEX concentrations were below the laboratory method detection limit of 0.010 mg/Kg. A summary of Confirmation Soil sample analytical results is provided as Table 1. Laboratory Reports are provided as Appendix C.

On January 24, 2008, two additional excavation sidewall and one floor soil sample were collected from the main excavation. Analytical results indicated TPH-GRO/DRO concentrations below the MDL of 50 mg/Kg and total BTEX concentrations were below the MDL of 0.01 mg/Kg for all samples submitted for analysis.

On January 29, 2008, five excavation sidewall and two floor samples were collected from along the leak flowpath and submitted to the laboratory for analysis. Analytical results indicated soil sample Northwest Wall, 4 ft. located along the west sidewall of the flowpath exhibited a TPH-DRO concentration of 1.91 mg/Kg. Benzene concentrations and total BTEX concentrations were below the MDL of 0.010 mg/Kg. Analytical results indicated soil sample Northeast Wall, 4 ft. located along the east sidewall of the flowpath exhibited a TPH-DRO concentration of 1.45 mg/Kg. Benzene concentrations and total BTEX concentrations were below the MDL of 0.010 mg/Kg. Analytical results indicated soil sample Central Floor located midway along the floor of the flowpath exhibited a TPH-GRO concentration of 152 mg/Kg and a TPH-DRO concentration of 17.2 mg/Kg with a total TPH concentration of 169.2 mg/Kg. Benzene concentrations were below the MDL of 0.010 mg/Kg and total BTEX exhibited concentrations of 0.1448 mg/Kg. Analytical results indicated soil sample Southwest Wall, 5 ft. located along the west sidewall of the flowpath exhibited a TPH-GRO concentration of 211 mg/Kg and a TPH-DRO concentration of 16.8 mg/Kg with a total TPH concentration of 227.8 mg/Kg. Benzene concentrations were below the MDL of 0.010 mg/Kg and total BTEX exhibited concentrations of 0.0687 mg/Kg. Analytical results indicated soil sample Southeast Wall, 5 ft. located along the east sidewall of the flowpath exhibited a TPH-DRO concentration of 12.2 mg/Kg. Benzene concentrations were below the MDL of 0.010 mg/Kg and total BTEX exhibited concentrations of 0.1574 mg/Kg. Analytical results indicated soil sample South Floor, 8 ft. located along the southern floor of the flowpath exhibited a TPH-DRO concentration of 1.21 mg/Kg. Benzene concentrations and total BTEX concentrations were below the MDL of 0.010 mg/Kg. Analytical results indicated soil sample South End Wall, 4 ft. located along the south end of the flowpath exhibited a TPH-DRO concentration of 16.4 mg/Kg. Benzene concentrations were below the MDL of 0.010 mg/Kg and total BTEX exhibited concentrations of 0.4098 mg/Kg.

Centurion evaluated available soil remediation strategies and concluded, blending the hydrocarbon impacted soil with non-impacted soil from a borrow area on the landowners property was the most expeditious remediation option. From January 23 to February 6, 2008, approximately 1,960 cubic yards of hydrocarbon impacted soil was transported to a commercial NMOCD permitted landfarm for proper disposal. Approximately 1,500 cubic yards of non-impacted soil was used to blend with the remaining 2,100 cy of hydrocarbon impacted soil.

On February 5, 2008, four soil samples from the blended soil stockpiles were collected and submitted to the laboratory for TPH-GRO/DRO and BTEX analysis. Analytical results indicated TPH-GRO/DRO concentrations ranged from 183.2 to 286.9 mg/Kg. Benzene concentrations were below the laboratory MDL of 0.05 mg/Kg and total BTEX concentrations ranged from 0.3135 mg/Kg to 0.8944 mg/Kg for each sample analyzed.

On February 11, 2008, NOVA on behalf of Centurion requested permission, from the NMOCD Hobbs district office, to backfill the existing excavation with the blended stockpile soil. On February 12, 2008, permission to backfill was approved by the NMOCD Hobbs district office.

On January 23, 2008 through February 6, 2008, approximately 1,960 cy of stockpiled soil was transported to the Gandy Marley Landfarm Facility (#NM-711-1-0020) east of Tatum, New Mexico. Blended stockpile soil was placed in the excavation in twelve inch lifts and compacted. Following backfilling activities the site was contoured to the surrounding topography. Mr. Wesley Harris, landowner, requested reseeding the area surrounding the excavation personally.

4.0 SITE CLOSURE REQUEST

In summary, the analytical results of final confirmation soil samples collected from the main excavation floor, excavation sidewalls, flowpath floor and flowpath sidewalls indicate benzene, total BTEX and TPH concentrations are below the required NMOCD regulatory levels of 10 mg/Kg, 50 mg/Kg and 1,000 mg/Kg, respectively.

Based on the analytical results of confirmation soil samples NOVA recommends that Centurion provide the NMOCD Hobbs district office a copy of this *Site Closure Request* and request the NMOCD grant closure to the Gladiola Gathering release site.

5.0 LIMITATIONS

NOVA has prepared this *Site Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This *Site Closure Request* has been prepared for the benefit of Centurion. The information contained in this report including all exhibits and attachments may not be used by any other party without the express written consent of NOVA and/or Centurion.

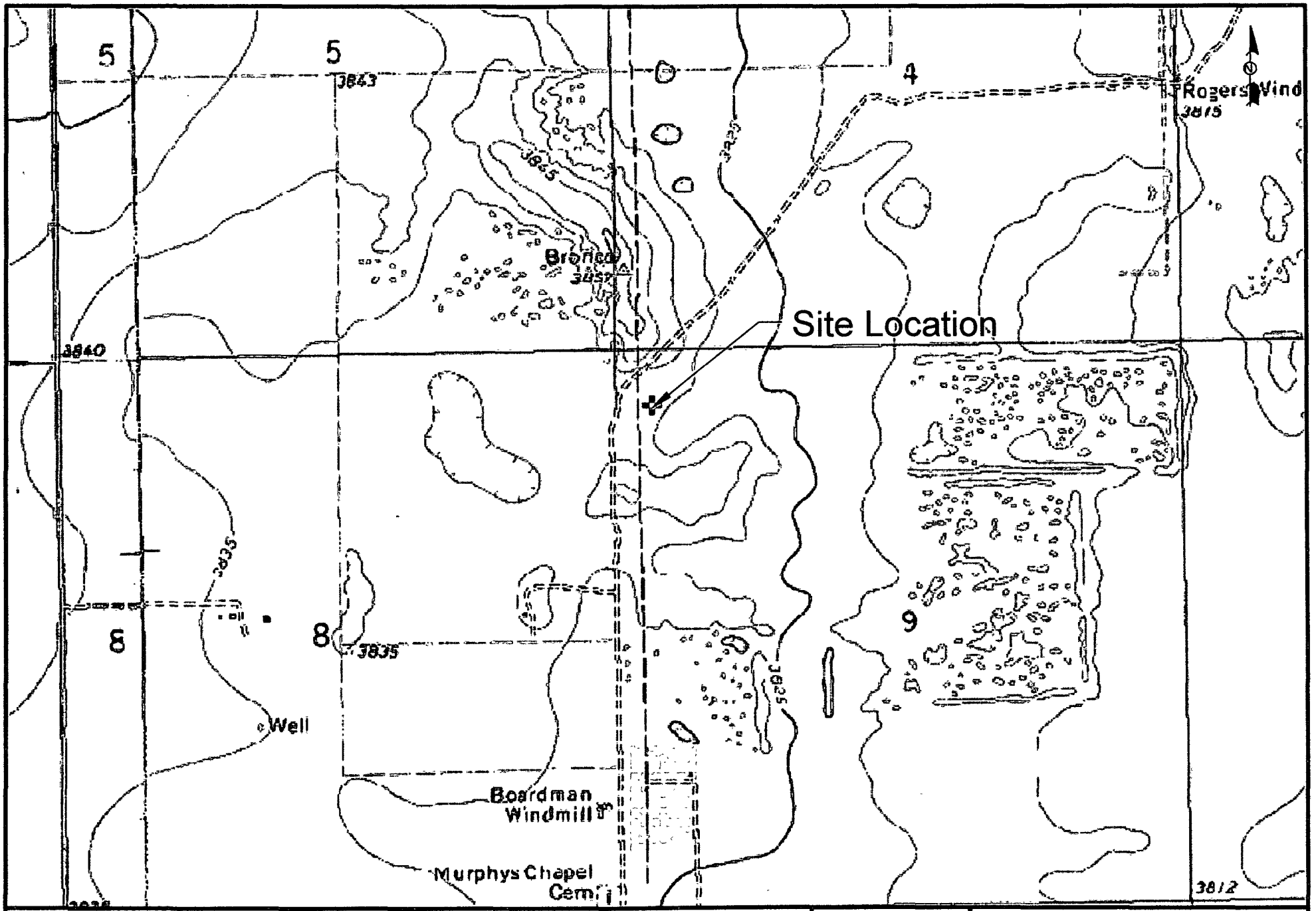
6.0 DISTRIBUTION

Copy 1: Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, NM 88240

Copy 2: Darrel Lester
Centurion Pipeline L.P.
P.O. Box 51790
Midland, Texas 79710
Darrel_Lester@Oxy.com

Copy 3: NOVA Safety and Environmental.
2057 Commerce Drive
Midland, Texas 79703
rrounsaville@novatraining.cc

FIGURES



USGS Prairieview NE (NM,TX) Topo Map

1200 600 0 600 1200

Distance in Feet

Figure 1
Site Location Map

Centurion Pipeline, L.P.
Gladiola Gathering

Lea County, New Mexico

NOVA Safety and Environmental

NOVA safety and environmental

Scale 1" = 1200'	CAD by: DGC	Checked By: RKR
March 6, 2008	N 33° 12' 43.45" W 103° 6' 34.87"	

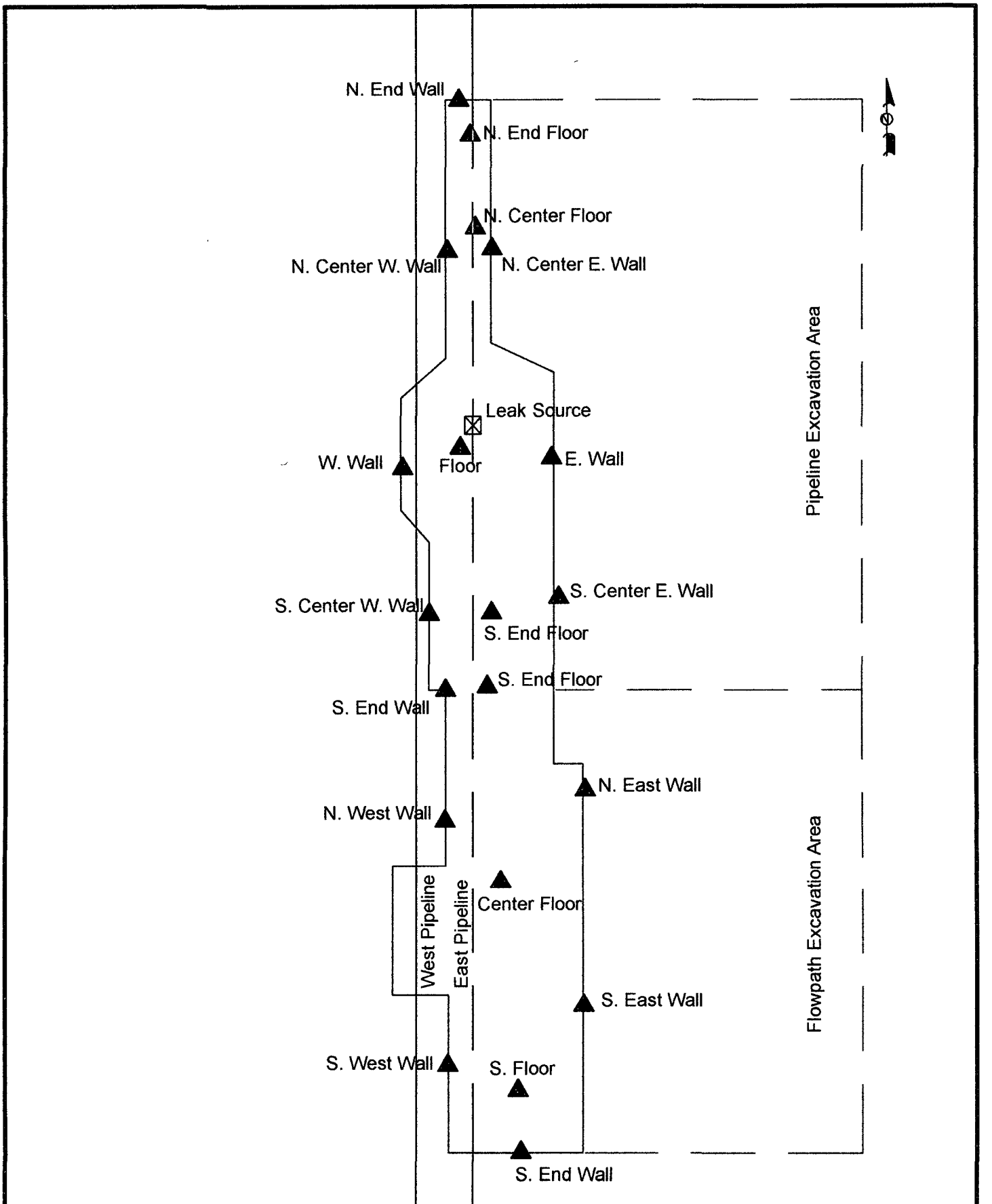


Figure 2
Site Map
Gladiola Gathering
Centurion Pipeline, L.P.
Lea County, NM

NOVA Saftey and Environmental

Scale 1" = 30'	Prep By DGC	Checked By TKC
February 7, 2008		

TABLES

TABLE 1

Analytical Results - Confirmation Soil Samples
Centurion, Gladiola Gathering
Tatum, Lea Country, New Mexico
Centirion Pipeline, LP

				Chlorides by Method SM 4500-CL B	TPH Analyzed By Method 8015B			SW 846-8021B				
SAMPLE DATE	SAMPLE IDENTIFICATION	SAMPLE DEPTH	SOIL STATUS	Chlorides	GRO C6-C12 mg/Kg	DRO >C12-C35 mg/Kg	Total TPH C6-C35 mg/Kg	Benzene	Toluene	Ethyl-Benzene	Xylene	Total BTEX
NMOCD REGULATORY STANDARDS							**1,000**	**10**				**50**
01/23/08	North End Wall, 2'	2.0 ft.	In-Situ	<100	<50.0	1.39	<50.0	<0.0100	<0.0100	<0.0100	<0.010	0
01/23/08	North End Floor, 3'	3.0 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/23/08	North Central, East Wall, 2'	2.0 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/23/08	North Central, West Wall, 2'	2.0 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/23/08	North Central, Floor, 2.5'	2.5 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/23/08	Leak Source, East Wall, 10'	10.0 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/23/08	South End Wall, 2'	2.0 ft.	In-Situ	<100	<50.0	1.25	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/23/08	South Central, Floor, 3'	3.0 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/23/08	South Central, West Wall, 2.5'	2.5 ft.	In-Situ	<100	<50.0	1.79	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/24/08	Leak Source, West Wall, 11'	11.0 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/24/08	Leak Source, Floor, 14'	14.0 ft.	In-Situ	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/24/08	South Central, East Wall, 2.0'	2.0 ft.	Excavated	<100	<50.0	<1.00	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	0
01/29/08	South Central, East Wall, 4.0'	4.0 ft.	In-Situ	na	<50.0	3.76	<50.0	<0.0100	<0.0100	<0.0100	0.0184	0.0184
01/29/08	Flow Path, Northwest Wall, 4.0'	4.0 ft.	In-Situ	na	<50.0	1.91	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
01/29/08	Flow Path, Northeast Wall, 4.0'	4.0 ft.	In-Situ	na	<50.0	1.45	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
01/29/08	Flow Path, Central Floor, 6.0'	6.0 ft.	In-Situ	na	152	17.2	169.2	<0.0100	0.0237	0.0369	0.0842	0.1448
01/29/08	Flow Path, Southwest Wall, 5.0'	5.0 ft.	In-Situ	na	211	16.8	227.8	<0.0100	0.0151	<0.0100	0.0536	0.0687
01/29/08	Flow Path, Southeast Wall, 5.0'	5.0 ft.	In-Situ	na	<50.0	12.2	<50.0	<0.0100	0.0424	<0.0100	0.115	0.1574
01/29/08	Flow Path, South Floor, 8.0'	8.0 ft.	In-Situ	na	<50.0	1.21	<50.0	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100
01/29/08	Flow Path, South End Wall, 4.0'	4.0 ft.	In-Situ	na	<50.0	16.4	<50.0	<0.0100	0.0838	0.113	0.213	0.4098
02/05/08	SP-1	Stockpile	Backfill	na	208	78.9	286.9	<0.0500	0.0624	0.177	0.655	0.8944
02/05/08	SP-2	Stockpile	Backfill	na	130	53.2	183.2	<0.0200	0.0251	0.105	0.347	0.4771
02/05/08	SP-3	Stockpile	Backfill	na	212	79.9	281.9	<0.0200	0.0693	0.194	0.626	0.8893
02/05/08	SP-4	Stockpile	Backfill	na	203	56	259	<0.0200	<0.0200	0.0695	0.244	0.3135

Bold: Indicates TPH concentration above regulatory guidelines
na = not analyzed

APPENDICES

APPENDIX A

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: January 30, 2008

Work Order: 8012408

Project Location: Lea County, NM
Project Name: Gladiola Gathering
Project Number: Gladiola Gathering

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
148767	N. End Wall, 2'	soil	2008-01-23	12:11	2008-01-24
148768	N. End Floor, 3'	soil	2008-01-23	12:15	2008-01-24
148769	N. Cent.-E. Wall, 2'	soil	2008-01-23	12:23	2008-01-24
148770	N. Cent.-W. Wall, 2'	soil	2008-01-23	12:26	2008-01-24
148771	N. Cent.-Floor, 2.5'	soil	2008-01-23	12:29	2008-01-24
148772	L. Source-E. Wall, 10'	soil	2008-01-23	13:38	2008-01-24
148773	S. End Wall, 2'	soil	2008-01-23	13:45	2008-01-24
148774	S. Cent.-Floor, 3'	soil	2008-01-23	13:56	2008-01-24
148775	S. Cent.-W. Wall, 2.5'	soil	2008-01-23	14:00	2008-01-24

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.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 148767 - N. End Wall, 2'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.981	mg/Kg	1	1.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.968	mg/Kg	1	1.00	97	70 - 130

Sample: 148767 - N. End Wall, 2'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148767 - N. End Wall, 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		126	mg/Kg	1	100	126	39.1 - 137.7

Sample: 148767 - N. End Wall, 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45014	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	**1.39**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.922	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.946	mg/Kg	1	1.00	95	70 - 130

Sample: 148768 - N. End Floor, 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.994	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.963	mg/Kg	1	1.00	96	70 - 130

Sample: 148768 - N. End Floor, 3'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148768 - N. End Floor, 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		111	mg/Kg	1	100	111	39.1 - 137.7

Sample: 148768 - N. End Floor, 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45014	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.920	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.929	mg/Kg	1	1.00	93	70 - 130

Sample: 148769 - N. Cent.-E. Wall, 2'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.981	mg/Kg	1	1.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.965	mg/Kg	1	1.00	96	70 - 130

Sample: 148769 - N. Cent.-E. Wall, 2'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148769 - N. Cent.-E. Wall, 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	142	mg/Kg	1	100	142	39.1 - 137.7

Sample: 148769 - N. Cent.-E. Wall, 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45014	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.956	mg/Kg	1	1.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.968	mg/Kg	1	1.00	97	70 - 130

Sample: 148770 - N. Cent.-W. Wall, 2'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.987	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.963	mg/Kg	1	1.00	96	70 - 130

Sample: 148770 - N. Cent.-W. Wall, 2'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

[1] High surrogate recovery due to peak interference.

Sample: 148770 - N. Cent.-W. Wall, 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[2]	145	mg/Kg	1	100	145	39.1 - 137.7

Sample: 148770 - N. Cent.-W. Wall, 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45014	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.959	mg/Kg	1	1.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.965	mg/Kg	1	1.00	96	70 - 130

Sample: 148771 - N. Cent.-Floor, 2.5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.992	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.961	mg/Kg	1	1.00	96	70 - 130

[2]High surrogate recovery due to peak interference.

Sample: 148771 - N. Cent.-Floor, 2.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148771 - N. Cent.-Floor, 2.5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[3]	150	mg/Kg	1	100	150	39.1 - 137.7

Sample: 148771 - N. Cent.-Floor, 2.5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45014	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.925	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.926	mg/Kg	1	1.00	93	70 - 130

Sample: 148772 - L. Source-E. Wall, 10'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100

continued ...

[3]High surrogate recovery due to peak interference.

sample 148772 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.996	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.958	mg/Kg	1	1.00	96	70 - 130

Sample: 148772 - L. Source-E. Wall, 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148772 - L. Source-E. Wall, 10'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[4]	148	mg/Kg	1	100	148	39.1 - 137.7

Sample: 148772 - L. Source-E. Wall, 10'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45014	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.925	mg/Kg	1	1.00	92	70 - 130

continued ...

[4]High surrogate recovery due to peak interference.

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.939	mg/Kg	1	1.00	94	70 - 130

Sample: 148773 - S. End Wall, 2'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.996	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.957	mg/Kg	1	1.00	96	70 - 130

Sample: 148773 - S. End Wall, 2'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148773 - S. End Wall, 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		117	mg/Kg	1	100	117	39.1 - 137.7

Sample: 148773 - S. End Wall, 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45014	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	**1.25**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.926	mg/Kg	1	1.00	93	70 - 130
4-Bromofluorobenzene (4-BFB)		0.940	mg/Kg	1	1.00	94	70 - 130

Sample: 148774 - S. Cent.-Floor, 3'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45105	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.971	mg/Kg	1	1.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.961	mg/Kg	1	1.00	96	70 - 130

Sample: 148774 - S. Cent.-Floor, 3'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45016	Date Analyzed:	2008-01-25	Analyzed By:	AR
Prep Batch:	38767	Sample Preparation:	2008-01-24	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148774 - S. Cent.-Floor, 3'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		112	mg/Kg	1	100	112	39.1 - 137.7

Sample: 148774 - S. Cent.-Floor, 3'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45111	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.922	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.942	mg/Kg	1	1.00	94	70 - 130

Sample: 148775 - S. Cent.-W. Wall, 2.5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45105	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.994	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.967	mg/Kg	1	1.00	97	70 - 130

Sample: 148775 - S. Cent.-W. Wall, 2.5'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45090	Date Analyzed:	2008-01-28	Analyzed By:	AR
Prep Batch:	38827	Sample Preparation:	2008-01-28	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148775 - S. Cent.-W. Wall, 2.5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	Sample Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		124	mg/Kg	1	100	124	39.1 - 137.7

Sample: 148775 - S. Cent.-W. Wall, 2.5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45111	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	**1.79**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.920	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.932	mg/Kg	1	1.00	93	70 - 130

Method Blank (1) QC Batch: 44989

QC Batch:	44989	Date Analyzed:	2008-01-24	Analyzed By:	LD
Prep Batch:	38737	QC Preparation:	2008-01-24	Prepared By:	LD

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		88.4	mg/Kg	1	100	88	33.3 - 157.4

Method Blank (1) QC Batch: 45002

QC Batch:	45002	Date Analyzed:	2008-01-24	Analyzed By:	DC
Prep Batch:	38735	QC Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00300	mg/Kg	0.01

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Toluene		<0.00300	mg/Kg	0.01
Ethylbenzene		<0.00400	mg/Kg	0.01
Xylene		<0.0140	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.988	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.962	mg/Kg	1	1.00	96	70 - 130

Method Blank (1) QC Batch: 45014

QC Batch: 45014 Date Analyzed: 2008-01-24 Analyzed By: DC
Prep Batch: 38735 QC Preparation: 2008-01-24 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.625	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.962	mg/Kg	1	1.00	96	70 - 130
4-Bromofluorobenzene (4-BFB)		0.948	mg/Kg	1	1.00	95	70 - 130

Method Blank (1) QC Batch: 45016

QC Batch: 45016 Date Analyzed: 2008-01-25 Analyzed By: AR
Prep Batch: 38767 QC Preparation: 2008-01-24 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 45090

QC Batch: 45090 Date Analyzed: 2008-01-28 Analyzed By: AR
Prep Batch: 38827 QC Preparation: 2008-01-28 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 45105

QC Batch: 45105 Date Analyzed: 2008-01-25 Analyzed By: DC
Prep Batch: 38739 QC Preparation: 2008-01-24 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00300	mg/Kg	0.01
Toluene		<0.00300	mg/Kg	0.01
Ethylbenzene		<0.00400	mg/Kg	0.01
Xylene		<0.0140	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.982	mg/Kg	1	1.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.955	mg/Kg	1	1.00	96	70 - 130

Method Blank (1) QC Batch: 45111

QC Batch: 45111 Date Analyzed: 2008-01-25 Analyzed By: DC
Prep Batch: 38739 QC Preparation: 2008-01-24 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.628	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.966	mg/Kg	1	1.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.954	mg/Kg	1	1.00	95	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 44989 Date Analyzed: 2008-01-24 Analyzed By: LD
Prep Batch: 38737 QC Preparation: 2008-01-24 Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	246	mg/Kg	1	250	<14.6	98	48.1 - 140.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	262	mg/Kg	1	250	<14.6	105	48.1 - 140.9	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	107	113	mg/Kg	1	100	107	113	42.1 - 138.9

Laboratory Control Spike (LCS-1)

QC Batch: 45002 Date Analyzed: 2008-01-24 Analyzed By: DC
Prep Batch: 38735 QC Preparation: 2008-01-24 Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.02	mg/Kg	1	1.00	<0.00300	102	70 - 130
Toluene	1.00	mg/Kg	1	1.00	<0.00300	100	70 - 130
Ethylbenzene	0.984	mg/Kg	1	1.00	<0.00400	98	70 - 130
Xylene	2.96	mg/Kg	1	3.00	<0.0140	99	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00300	101	70 - 130	1	
Toluene	0.996	mg/Kg	1	1.00	<0.00300	100	70 - 130	0	
Ethylbenzene	0.980	mg/Kg	1	1.00	<0.00400	98	70 - 130	0	
Xylene	2.95	mg/Kg	1	3.00	<0.0140	98	70 - 130	0	

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
Trifluorotoluene (TFT)	0.998	0.998	mg/Kg	1	1.00	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.977	0.980	mg/Kg	1	1.00	98	98	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45014 | Date Analyzed: 2008-01-24 | Analyzed By: DC
Prep Batch: 38735 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.17	mg/Kg	1	10.0	<0.0118	82	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.13	mg/Kg	1	10.0	<0.0118	81	70 - 130	0	

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
Trifluorotoluene (TFT)	0.973	0.970	mg/Kg	1	1.00	97	97	70 - 130
4-Bromofluorobenzene (4-BFB)	0.984	0.979	mg/Kg	1	1.00	98	98	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45016 | Date Analyzed: 2008-01-25 | Analyzed By: AR
Prep Batch: 38767 | QC Preparation: 2008-01-24 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.6	mg/Kg	1	100	<0.500	99	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	99.6	mg/Kg	1	100	<0.500	100	85 - 115	1	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: 45090 | Date Analyzed: 2008-01-28 | Analyzed By: AR
Prep Batch: 38827 | QC Preparation: 2008-01-28 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	99.6	mg/Kg	1	100	<0.500	100	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<0.500	100	85 - 115	1	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: 45105 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00300	101	70 - 130
Toluene	0.989	mg/Kg	1	1.00	<0.00300	99	70 - 130
Ethylbenzene	0.967	mg/Kg	1	1.00	<0.00400	97	70 - 130
Xylene	2.92	mg/Kg	1	3.00	<0.0140	97	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.999	mg/Kg	1	1.00	<0.00300	100	70 - 130	1	
Toluene	0.980	mg/Kg	1	1.00	<0.00300	98	70 - 130	1	
Ethylbenzene	0.963	mg/Kg	1	1.00	<0.00400	96	70 - 130	0	
Xylene	2.89	mg/Kg	1	3.00	<0.0140	96	70 - 130	1	

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
Trifluorotoluene (TFT)	0.989	0.981	mg/Kg	1	1.00	99	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.972	0.963	mg/Kg	1	1.00	97	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45111 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.28	mg/Kg	1	10.0	<0.0118	83	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.11	mg/Kg	1	10.0	<0.0118	81	70 - 130	2	

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
Trifluorotoluene (TFT)	1.00	1.00	mg/Kg	1	1.00	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.977	0.987	mg/Kg	1	1.00	98	99	70 - 130

Matrix Spike (MS-1) Spiked Sample: 148738

QC Batch: 44989 | Date Analyzed: 2008-01-24 | Analyzed By: LD
Prep Batch: 38737 | QC Preparation: 2008-01-24 | Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	280	mg/Kg	1	250	64.16	86	35.6 - 173.6

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	270	mg/Kg	1	250	64.16	82	35.6 - 173.6	4	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
n-Triacontane	128	115	mg/Kg	1	100	128	115	33 - 156.2

Matrix Spike (MS-1) Spiked Sample: 148700

QC Batch: 45002 | Date Analyzed: 2008-01-24 | Analyzed By: DC
Prep Batch: 38735 | QC Preparation: 2008-01-24 | Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	[5]	1.45	mg/Kg	1	1.00	<0.00300	145	70 - 130
Toluene	[6]	1.42	mg/Kg	1	1.00	<0.00300	142	70 - 130
Ethylbenzene	[7]	1.39	mg/Kg	1	1.00	<0.00400	139	70 - 130
Xylene	[8]	4.18	mg/Kg	1	3.00	<0.0140	139	70 - 130

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

[5]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[7]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[8]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[9]	1.34	mg/Kg	1	1.00	<0.00300	134	70 - 130	8	
Toluene	[10]	1.33	mg/Kg	1	1.00	<0.00300	133	70 - 130	6	
Ethylbenzene	[11]	1.34	mg/Kg	1	1.00	<0.00400	134	70 - 130	4	
Xylene	[12]	4.06	mg/Kg	1	3.00	<0.0140	135	70 - 130	3	

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)	0.999	1.01	mg/Kg	1	1	100	101	70 - 130
4-Bromofluorobenzene (4-BFB)	0.989	0.982	mg/Kg	1	1	99	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 148700

QC Batch: 45014 | Date Analyzed: 2008-01-24 | Analyzed By: DC
Prep Batch: 38735 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	10.9	mg/Kg	1	10.0	<0.0118	109	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	9.62	mg/Kg	1	10.0	<0.0118	96	70 - 130	12	

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)	0.925	0.889	mg/Kg	1	1	92	89	70 - 130
4-Bromofluorobenzene (4-BFB)	1.02	0.995	mg/Kg	1	1	102	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 148774

QC Batch: 45016 | Date Analyzed: 2008-01-25 | Analyzed By: AR
Prep Batch: 38767 | QC Preparation: 2008-01-24 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	4720	mg/Kg	50	5000	<25.0	94	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	4760	mg/Kg	50	5000	<25.0	95	85 - 115	1	20

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

[9]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[10]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[11]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[12]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Matrix Spike (MS-1) Spiked Sample: 148833

QC Batch: 45090 | Date Analyzed: 2008-01-28 | Analyzed By: AR
Prep Batch: 38827 | QC Preparation: 2008-01-28 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	5310	mg/Kg	50	5000	301.703	100	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	5360	mg/Kg	50	5000	301.703	101	85 - 115	1	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: 148774

QC Batch: 45105 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.10	mg/Kg	1	1.00	<0.00300	110	70 - 130
Toluene	1.09	mg/Kg	1	1.00	<0.00300	109	70 - 130
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.00400	110	70 - 130
Xylene	3.32	mg/Kg	1	3.00	<0.0140	111	70 - 130

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[13]	1.46	mg/Kg	1	1.00	<0.00300	146	70 - 130	28	
Toluene	[14]	1.46	mg/Kg	1	1.00	<0.00300	146	70 - 130	29	
Ethylbenzene	[15]	1.48	mg/Kg	1	1.00	<0.00400	148	70 - 130	29	
Xylene	[16]	4.44	mg/Kg	1	3.00	<0.0140	148	70 - 130	29	

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)	0.978	0.985	mg/Kg	1	1	98	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.959	0.972	mg/Kg	1	1	96	97	70 - 130

Matrix Spike (MS-1) Spiked Sample: 148774

QC Batch: 45111 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

[13]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[14]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[15]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[16]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	[17]	14.4	mg/Kg	1	10.0	<0.0118	144	70 - 130

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	[18]	8.95	mg/Kg	1	10.0	<0.0118	90	70 - 130	47	

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)	0.870	0.910	mg/Kg	1	1	87	91	70 - 130
4-Bromofluorobenzene (4-BFB)	1.01	0.981	mg/Kg	1	1	101	98	70 - 130

Standard (CCV-1)

QC Batch: 44989 Date Analyzed: 2008-01-24 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	262	105	85 - 115	2008-01-24

Standard (CCV-2)

QC Batch: 44989 Date Analyzed: 2008-01-24 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	249	100	85 - 115	2008-01-24

Standard (ICV-1)

QC Batch: 45002 Date Analyzed: 2008-01-24 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0937	94	85 - 115	2008-01-24
Toluene		mg/Kg	0.100	0.0924	92	85 - 115	2008-01-24
Ethylbenzene		mg/Kg	0.100	0.0915	92	85 - 115	2008-01-24
Xylene		mg/Kg	0.300	0.276	92	85 - 115	2008-01-24

Standard (CCV-1)

QC Batch: 45002 Date Analyzed: 2008-01-24 Analyzed By: DC

[17]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[18]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0991	99	85 - 115	2008-01-24
Toluene		mg/Kg	0.100	0.0971	97	85 - 115	2008-01-24
Ethylbenzene		mg/Kg	0.100	0.0948	95	85 - 115	2008-01-24
Xylene		mg/Kg	0.300	0.286	95	85 - 115	2008-01-24

Standard (ICV-1)

QC Batch: 45014 Date Analyzed: 2008-01-24 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.969	97	85 - 115	2008-01-24

Standard (CCV-1)

QC Batch: 45014 Date Analyzed: 2008-01-24 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.03	103	85 - 115	2008-01-24

Standard (ICV-1)

QC Batch: 45016 Date Analyzed: 2008-01-25 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.4	99	85 - 115	2008-01-25

Standard (CCV-1)

QC Batch: 45016 Date Analyzed: 2008-01-25 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-01-25

Standard (ICV-1)

QC Batch: 45090 Date Analyzed: 2008-01-28 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.5	98	85 - 115	2008-01-28

Standard (CCV-1)

QC Batch: 45090 Date Analyzed: 2008-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2008-01-28

Standard (ICV-1)

QC Batch: 45105 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0995	100	85 - 115	2008-01-25
Toluene		mg/Kg	0.100	0.0975	98	85 - 115	2008-01-25
Ethylbenzene		mg/Kg	0.100	0.0952	95	85 - 115	2008-01-25
Xylene		mg/Kg	0.300	0.287	96	85 - 115	2008-01-25

Standard (CCV-1)

QC Batch: 45105 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	85 - 115	2008-01-25
Toluene		mg/Kg	0.100	0.103	103	85 - 115	2008-01-25
Ethylbenzene		mg/Kg	0.100	0.0937	94	85 - 115	2008-01-25
Xylene		mg/Kg	0.300	0.292	97	85 - 115	2008-01-25

Standard (ICV-1)

QC Batch: 45111 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2008-01-25

Standard (CCV-1)

QC Batch: 45111 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	85 - 115	2008-01-25

LAB Order ID # 8012408 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: NOVA ENVIRONMENTAL | Phone #: 432-520-7720

Address: (Street, City, Zip) | Fax #:

Contact Person: Ron Rounsaville | E-mail: jkoonce@novatraining.cc

Invoice to: (If different from above) Centurion

Project #: | Project Name: GLADIOLA GATHERING

Project Location (including state): LEA CO. N. MEXICO | Sampler Signature: Ronald Rounsaville

LAB # / LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
12345-1	N. END WALL, 2'	1	4oz		X							X		01/23/08	1211
-2	N. END FLOOR, 3'	1	"		X							X			1215
-3	N. Cent. - E. Wall, 2'	1	"		X							X			1223
-4	N. Cent. - W. Wall, 2'	1	"		X							X			1226
-5	N. Cent. - FLOOR, 2.5'	1	"		X							X			1229
-6	L. Source - E. WALL, 10'	1	"		X							X			1338
-7	S. END WALL, 2'	1	"		X							X			1345
-8	S. Cent. - FLOOR, 3'	1	"		X							X			1356
-9	S. Cent. - W. WALL, 2.5'	1	"		X							X		01/23/08	1400

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # / LAB USE ONLY	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chlorides				Turn Around Time if different from standard	Hold
12345-1		X		X														X					
-2		X		X														X					
-3		X		X														X					
-4		X		X														X					
-5		X		X														X					
-6		X		X														X					
-7		X		X														X					
-8		X		X														X					
-9		X		X														X					

Relinquished by: Ronald Rounsaville Date: 01/23/08 Time: 2000 | Received by: | Date: | Time:

Relinquished by: | Date: | Time: | Received by: | Date: | Time:

Relinquished by: | Date: | Time: | Received at Laboratory by: [signature] | Date: 1-24-08 | Time: 0730

LAB USE ONLY

Intact Y / N

Headspace Y / N

Temp 4.0 °C

Log-In-Review

REMARKS: All tests Midland

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Courier

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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TRACEANALYSIS, INC.

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Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: January 31, 2008

Work Order: 8012504

Project Location: Lea County, NM
Project Name: Gladiola Gathering
Project Number: Gladiola Gathering

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
148915	L.S. West Wall, 11'	soil	2008-01-24	12:07	2008-01-25
148916	L.S. Floor, 14'	soil	2008-01-24	12:12	2008-01-25
148917	S. Cent.,E-Wall, 2'	soil	2008-01-24	11:05	2008-01-25

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 12 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 148915 - L.S. West Wall, 11'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45105	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.986	mg/Kg	1	1.00	99	70 - 130
4-Bromofluorobenzene (4-BFB)		0.951	mg/Kg	1	1.00	95	70 - 130

Sample: 148915 - L.S. West Wall, 11'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45138	Date Analyzed:	2008-01-30	Analyzed By:	AR
Prep Batch:	38869	Sample Preparation:	2008-01-29	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148915 - L.S. West Wall, 11'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45062	Date Analyzed:	2008-01-25	Analyzed By:	LD
Prep Batch:	38763	Sample Preparation:	2008-01-25	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		95.2	mg/Kg	1	100	95	39.1 - 137.7

Sample: 148915 - L.S. West Wall, 11'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45111	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.850	mg/Kg	1	1.00	85	70 - 130
4-Bromofluorobenzene (4-BFB)		0.866	mg/Kg	1	1.00	87	70 - 130

Sample: 148916 - L.S. Floor, 14'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45105	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.985	mg/Kg	1	1.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.951	mg/Kg	1	1.00	95	70 - 130

Sample: 148916 - L.S. Floor, 14'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45138	Date Analyzed:	2008-01-30	Analyzed By:	AR
Prep Batch:	38869	Sample Preparation:	2008-01-29	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148916 - L.S. Floor, 14'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45062	Date Analyzed:	2008-01-25	Analyzed By:	LD
Prep Batch:	38763	Sample Preparation:	2008-01-25	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		114	mg/Kg	1	100	114	39.1 - 137.7

Sample: 148916 - L.S. Floor, 14'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45111	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.853	mg/Kg	1	1.00	85	70 - 130
4-Bromofluorobenzene (4-BFB)		0.867	mg/Kg	1	1.00	87	70 - 130

Sample: 148917 - S. Cent.,E-Wall, 2'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45105	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.978	mg/Kg	1	1.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.958	mg/Kg	1	1.00	96	70 - 130

Sample: 148917 - S. Cent.,E-Wall, 2'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	45149	Date Analyzed:	2008-01-30	Analyzed By:	AR
Prep Batch:	38879	Sample Preparation:	2008-01-30	Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 148917 - S. Cent.,E-Wall, 2'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45062	Date Analyzed:	2008-01-25	Analyzed By:	LD
Prep Batch:	38763	Sample Preparation:	2008-01-25	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		127	mg/Kg	1	100	127	39.1 - 137.7

Sample: 148917 - S. Cent.,E-Wall, 2'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45111	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	Sample Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		<1.00	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.857	mg/Kg	1	1.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)		0.870	mg/Kg	1	1.00	87	70 - 130

Method Blank (1) QC Batch: 45062

QC Batch:	45062	Date Analyzed:	2008-01-25	Analyzed By:	LD
Prep Batch:	38763	QC Preparation:	2008-01-25	Prepared By:	LD

Parameter	Flag	MDL Result	Units	RL
DRO		18.3	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		120	mg/Kg	1	100	120	33.3 - 157.4

Method Blank (1) QC Batch: 45105

QC Batch:	45105	Date Analyzed:	2008-01-25	Analyzed By:	DC
Prep Batch:	38739	QC Preparation:	2008-01-24	Prepared By:	DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00300	mg/Kg	0.01
Toluene		<0.00300	mg/Kg	0.01
Ethylbenzene		<0.00400	mg/Kg	0.01
Xylene		<0.0140	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.982	mg/Kg	1	1.00	98	70 - 130
4-Bromofluorobenzene (4-BFB)		0.955	mg/Kg	1	1.00	96	70 - 130

Method Blank (1) QC Batch: 45111

QC Batch: 45111 Date Analyzed: 2008-01-25 Analyzed By: DC
Prep Batch: 38739 QC Preparation: 2008-01-24 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.628	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.966	mg/Kg	1	1.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)		0.954	mg/Kg	1	1.00	95	70 - 130

Method Blank (1) QC Batch: 45138

QC Batch: 45138 Date Analyzed: 2008-01-30 Analyzed By: AR
Prep Batch: 38869 QC Preparation: 2008-01-29 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Method Blank (1) QC Batch: 45149

QC Batch: 45149 Date Analyzed: 2008-01-30 Analyzed By: AR
Prep Batch: 38879 QC Preparation: 2008-01-30 Prepared By: AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch: 45062 Date Analyzed: 2008-01-25 Analyzed By: LD
Prep Batch: 38763 QC Preparation: 2008-01-25 Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	244	mg/Kg	1	250	<14.6	98	48.1 - 140.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	260	mg/Kg	1	250	<14.6	104	48.1 - 140.9	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	111	118	mg/Kg	1	100	111	118	42.1 - 138.9

Laboratory Control Spike (LCS-1)

QC Batch: 45105 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.01	mg/Kg	1	1.00	<0.00300	101	70 - 130
Toluene	0.989	mg/Kg	1	1.00	<0.00300	99	70 - 130
Ethylbenzene	0.967	mg/Kg	1	1.00	<0.00400	97	70 - 130
Xylene	2.92	mg/Kg	1	3.00	<0.0140	97	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.999	mg/Kg	1	1.00	<0.00300	100	70 - 130	1	
Toluene	0.980	mg/Kg	1	1.00	<0.00300	98	70 - 130	1	
Ethylbenzene	0.963	mg/Kg	1	1.00	<0.00400	96	70 - 130	0	
Xylene	2.89	mg/Kg	1	3.00	<0.0140	96	70 - 130	1	

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
Trifluorotoluene (TFT)	0.989	0.981	mg/Kg	1	1.00	99	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.972	0.963	mg/Kg	1	1.00	97	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45111 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	8.28	mg/Kg	1	10.0	<0.0118	83	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	8.11	mg/Kg	1	10.0	<0.0118	81	70 - 130	2	

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
Trifluorotoluene (TFT)	1.00	1.00	mg/Kg	1	1.00	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	0.977	0.987	mg/Kg	1	1.00	98	99	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45138 | Date Analyzed: 2008-01-30 | Analyzed By: AR
Prep Batch: 38869 | QC Preparation: 2008-01-29 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<0.500	100	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	101	mg/Kg	1	100	<0.500	101	85 - 115	1	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: 45149 | Date Analyzed: 2008-01-30 | Analyzed By: AR
Prep Batch: 38879 | QC Preparation: 2008-01-30 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	96.5	mg/Kg	1	100	<0.500	96	85 - 115

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	97.4	mg/Kg	1	100	<0.500	97	85 - 115	1	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: 148890

QC Batch: 45062 | Date Analyzed: 2008-01-25 | Analyzed By: LD
Prep Batch: 38763 | QC Preparation: 2008-01-25 | Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	305	mg/Kg	1	250	70	94	35.6 - 173.6

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	254	mg/Kg	1	250	70	74	35.6 - 173.6	18	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
n-Triacontane	142	118	mg/Kg	1	100	142	118	33 - 156.2

Matrix Spike (MS-1) Spiked Sample: 148774

QC Batch: 45105 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.10	mg/Kg	1	1.00	<0.00300	110	70 - 130
Toluene	1.09	mg/Kg	1	1.00	<0.00300	109	70 - 130
Ethylbenzene	1.10	mg/Kg	1	1.00	<0.00400	110	70 - 130
Xylene	3.32	mg/Kg	1	3.00	<0.0140	111	70 - 130

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[1]	1.46	mg/Kg	1	1.00	<0.00300	146	70 - 130	28	
Toluene	[2]	1.46	mg/Kg	1	1.00	<0.00300	146	70 - 130	29	
Ethylbenzene	[3]	1.48	mg/Kg	1	1.00	<0.00400	148	70 - 130	29	
Xylene	[4]	4.44	mg/Kg	1	3.00	<0.0140	148	70 - 130	29	

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)	0.978	0.985	mg/Kg	1	1	98	98	70 - 130
4-Bromofluorobenzene (4-BFB)	0.959	0.972	mg/Kg	1	1	96	97	70 - 130

Matrix Spike (MS-1) Spiked Sample: 148774

QC Batch: 45111 | Date Analyzed: 2008-01-25 | Analyzed By: DC
Prep Batch: 38739 | QC Preparation: 2008-01-24 | Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	[5]	14.4	mg/Kg	1	10.0	<0.0118	144	70 - 130

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	[6]	8.95	mg/Kg	1	10.0	<0.0118	90	70 - 130	47	

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

[1]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[2]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[3]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[4]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[5]Matrix spike recovery out of control limits due to extraction process. Use LCS/LCSD to demonstrate analysis is under control.
[6]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.870	0.910	mg/Kg	1	1	87	91	70 - 130
4-Bromofluorobenzene (4-BFB)	1.01	0.981	mg/Kg	1	1	101	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 149092

QC Batch: 45138 Date Analyzed: 2008-01-30 Analyzed By: AR
Prep Batch: 38869 QC Preparation: 2008-01-29 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8680	mg/Kg	50	5000	3612.01	101	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	8720	mg/Kg	50	5000	3612.01	102	85 - 115	0	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: 149125

QC Batch: 45149 Date Analyzed: 2008-01-30 Analyzed By: AR
Prep Batch: 38879 QC Preparation: 2008-01-30 Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	8890	mg/Kg	50	5000	3867.4	100	85 - 115

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	8940	mg/Kg	50	5000	3867.4	101	85 - 115	1	20

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

Standard (CCV-1)

QC Batch: 45062 Date Analyzed: 2008-01-25 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	222	89	85 - 115	2008-01-25

Standard (CCV-2)

QC Batch: 45062 Date Analyzed: 2008-01-25 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	234	94	85 - 115	2008-01-25

Standard (ICV-1)

QC Batch: 45105 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0995	100	85 - 115	2008-01-25
Toluene		mg/Kg	0.100	0.0975	98	85 - 115	2008-01-25
Ethylbenzene		mg/Kg	0.100	0.0952	95	85 - 115	2008-01-25
Xylene		mg/Kg	0.300	0.287	96	85 - 115	2008-01-25

Standard (CCV-1)

QC Batch: 45105 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.104	104	85 - 115	2008-01-25
Toluene		mg/Kg	0.100	0.103	103	85 - 115	2008-01-25
Ethylbenzene		mg/Kg	0.100	0.0937	94	85 - 115	2008-01-25
Xylene		mg/Kg	0.300	0.292	97	85 - 115	2008-01-25

Standard (ICV-1)

QC Batch: 45111 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.02	102	85 - 115	2008-01-25

Standard (CCV-1)

QC Batch: 45111 Date Analyzed: 2008-01-25 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.09	109	85 - 115	2008-01-25

Standard (ICV-1)

QC Batch: 45138 Date Analyzed: 2008-01-30 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.0	98	85 - 115	2008-01-30

Standard (CCV-1)

QC Batch: 45138 Date Analyzed: 2008-01-30 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2008-01-30

Standard (ICV-1)

QC Batch: 45149 Date Analyzed: 2008-01-30 Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	102	102	85 - 115	2008-01-30

Standard (CCV-1)

QC Batch: 45149 Date Analyzed: 2008-01-30 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	98.3	98	85 - 115	2008-01-30

LAB Order ID # 8012504 Page 1 of 1

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Invoice to: (If different from above) Centurion

Project #: — Project Name: GLADIOLA Gathering

Project Location (including state): LEA CO. NM — Sampler Signature: Ralph Roumsaville

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
8012504-1	L.S. WEST WALL, 11'	1	4oz		X							X		11/24/08	1207
-2	L.S. FLOOR, 14'	1	"		X							X		"	1212
-3	S.CENT. E-WALL, 2'	1	"		X							X		"	1105

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Chlorides			Turn Around Time if different from standard	Hold
	X		X														X				
	X		X														X				
	X		X														X				

Relinquished by: Ralph Roumsaville — Date: 01/29/08 — Time: 1945

Received by: — Date: — Time:

Relinquished by: — Date: — Time:

Received by: — Date: — Time:

Relinquished by: — Date: — Time:

Received at Laboratory by: [signature] — Date: 01/30/08 — Time: 945

LAB USE ONLY

Intact (Y) N

Headspace Y N NA

Temp ___ °C

Log-In-Review ___

REMARKS: all tests - Midland

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # Carry In

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

TRACE ANALYSIS, INC.
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200 East Sunset Road, Suite E | El Paso, Texas 79922 | 888•588•3443 | 915•585•3443 | FAX 915•585•4944
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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ron Rounsaville
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: February 4, 2008

Work Order: 8013009

Project Location: Lea County, NM
Project Name: Gladiola Gathering
Project Number: Gladiola Gathering

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
149185	S. Cent. E. Wall, 4'	soil	2008-01-29	13:52	2008-01-30
149186	FP-N.W. Wall, 4'	soil	2008-01-29	15:10	2008-01-30
149187	FP-N.E. Wall, 4'	soil	2008-01-29	15:06	2008-01-30
149188	FP-Cent. Floor, 6'	soil	2008-01-29	15:14	2008-01-30
149189	FP-S.W. Wall, 5'	soil	2008-01-29	15:20	2008-01-30
149190	FP-S.E. Wall, 5'	soil	2008-01-29	15:23	2008-01-30
149191	FP-S. Floor, 8'	soil	2008-01-29	15:26	2008-01-30
149192	FP-S. End Wall, 4'	soil	2008-01-29	15:30	2008-01-30

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.

Blair Leftwich

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Analytical Report

Sample: 149185 - S. Cent. E. Wall, 4'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		**0.0184**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.03	mg/Kg	1	1.00	103	70 - 130
4-Bromofluorobenzene (4-BFB)		0.990	mg/Kg	1	1.00	99	70 - 130

Sample: 149185 - S. Cent. E. Wall, 4'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45226	Date Analyzed:	2008-02-02	Analyzed By:	LD
Prep Batch:	38952	Sample Preparation:	2008-02-02	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		91.2	mg/Kg	1	100	91	39.1 - 137.7

Sample: 149185 - S. Cent. E. Wall, 4'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	**3.76**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.899	mg/Kg	1	1.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.946	mg/Kg	1	1.00	95	70 - 130

Sample: 149186 - FP-N.W. Wall, 4'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.998	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.974	mg/Kg	1	1.00	97	70 - 130

Sample: 149186 - FP-N.W. Wall, 4'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45226	Date Analyzed:	2008-02-02	Analyzed By:	LD
Prep Batch:	38952	Sample Preparation:	2008-02-02	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		66.1	mg/Kg	1	100	66	39.1 - 137.7

Sample: 149186 - FP-N.W. Wall, 4'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	1.91	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.894	mg/Kg	1	1.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)		0.913	mg/Kg	1	1.00	91	70 - 130

Sample: 149187 - FP-N.E. Wall, 4'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.00	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.979	mg/Kg	1	1.00	98	70 - 130

Sample: 149187 - FP-N.E. Wall, 4'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45226	Date Analyzed:	2008-02-02	Analyzed By:	LD
Prep Batch:	38952	Sample Preparation:	2008-02-02	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		78.2	mg/Kg	1	100	78	39.1 - 137.7

Sample: 149187 - FP-N.E. Wall, 4'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	1.45	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.896	mg/Kg	1	1.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.904	mg/Kg	1	1.00	90	70 - 130

Sample: 149188 - FP-Cent. Floor, 6'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		**0.0237**	mg/Kg	1	0.0100
Ethylbenzene		**0.0369**	mg/Kg	1	0.0100
Xylene		**0.0842**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.973	mg/Kg	1	1.00	97	70 - 130
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	70 - 130

Sample: 149188 - FP-Cent. Floor, 6'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45148	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**152**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[1]	171	mg/Kg	1	100	171	39.1 - 137.7

Sample: 149188 - FP-Cent. Floor, 6'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**17.2**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.885	mg/Kg	1	1.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)		0.970	mg/Kg	1	1.00	97	70 - 130

[1]High surrogate recovery due to peak interference.

Sample: 149189 - FP-S.W. Wall, 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		**0.0151**	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		**0.0536**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)		1.00	mg/Kg	1	1.00	100	70 - 130

Sample: 149189 - FP-S.W. Wall, 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		**211**	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	[2]	145	mg/Kg	1	100	145	39.1 - 137.7

Sample: 149189 - FP-S.W. Wall, 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**16.8**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.890	mg/Kg	1	1.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)		0.954	mg/Kg	1	1.00	95	70 - 130

[2]High surrogate recovery due to peak interference.

Sample: 149190 - FP-S.E. Wall, 5'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		**0.0424**	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		**0.115**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)		1.01	mg/Kg	1	1.00	101	70 - 130

Sample: 149190 - FP-S.E. Wall, 5'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		118	mg/Kg	1	100	118	39.1 - 137.7

Sample: 149190 - FP-S.E. Wall, 5'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**12.2**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.894	mg/Kg	1	1.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)		0.982	mg/Kg	1	1.00	98	70 - 130

Sample: 149191 - FP-S. Floor, 8'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		<0.0100	mg/Kg	1	0.0100
Ethylbenzene		<0.0100	mg/Kg	1	0.0100
Xylene		<0.0100	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.996	mg/Kg	1	1.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	1	1.00	98	70 - 130

Sample: 149191 - FP-S. Floor, 8'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		106	mg/Kg	1	100	106	39.1 - 137.7

Sample: 149191 - FP-S. Floor, 8'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO	B	**1.21**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.900	mg/Kg	1	1.00	90	70 - 130
4-Bromofluorobenzene (4-BFB)		0.898	mg/Kg	1	1.00	90	70 - 130

Sample: 149192 - FP-S. End Wall, 4'

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	45229	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0100	mg/Kg	1	0.0100
Toluene		**0.0838**	mg/Kg	1	0.0100
Ethylbenzene		**0.113**	mg/Kg	1	0.0100
Xylene		**0.213**	mg/Kg	1	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.02	mg/Kg	1	1.00	102	70 - 130
4-Bromofluorobenzene (4-BFB)		1.04	mg/Kg	1	1.00	104	70 - 130

Sample: 149192 - FP-S. End Wall, 4'

Analysis:	TPH DRO	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	Sample Preparation:	2008-01-30	Prepared By:	LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		113	mg/Kg	1	100	113	39.1 - 137.7

Sample: 149192 - FP-S. End Wall, 4'

Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	45227	Date Analyzed:	2008-01-31	Analyzed By:	DC
Prep Batch:	38890	Sample Preparation:	2008-01-30	Prepared By:	DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		**16.4**	mg/Kg	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.894	mg/Kg	1	1.00	89	70 - 130
4-Bromofluorobenzene (4-BFB)		1.05	mg/Kg	1	1.00	105	70 - 130

Method Blank (1) QC Batch: 45139

QC Batch:	45139	Date Analyzed:	2008-01-30	Analyzed By:	LD
Prep Batch:	38863	QC Preparation:	2008-01-30	Prepared By:	LD

Parameter	Flag	MDL Result	Units	RL
DRO		18.1	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		94.2	mg/Kg	1	100	94	33.3 - 157.4

Method Blank (1) QC Batch: 45148

QC Batch: 45148 Date Analyzed: 2008-01-30 Analyzed By: LD
Prep Batch: 38863 QC Preparation: 2008-01-30 Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		18.0	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		83.7	mg/Kg	1	100	84	33.3 - 157.4

Method Blank (1) QC Batch: 45226

QC Batch: 45226 Date Analyzed: 2008-02-02 Analyzed By: LD
Prep Batch: 38952 QC Preparation: 2008-02-02 Prepared By: LD

Parameter	Flag	MDL Result	Units	RL
DRO		<14.6	mg/Kg	50

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		96.4	mg/Kg	1	100	96	33.3 - 157.4

Method Blank (1) QC Batch: 45227

QC Batch: 45227 Date Analyzed: 2008-01-31 Analyzed By: DC
Prep Batch: 38890 QC Preparation: 2008-01-30 Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
GRO		0.596	mg/Kg	1

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.920	mg/Kg	1	1.00	92	70 - 130
4-Bromofluorobenzene (4-BFB)		0.907	mg/Kg	1	1.00	91	70 - 130

Method Blank (1) QC Batch: 45229

QC Batch: 45229 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00300	mg/Kg	0.01
Toluene		<0.00300	mg/Kg	0.01
Ethylbenzene		<0.00400	mg/Kg	0.01
Xylene		<0.0140	mg/Kg	0.01

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.01	mg/Kg	1	1.00	101	70 - 130
4-Bromofluorobenzene (4-BFB)		0.975	mg/Kg	1	1.00	98	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45139 | Date Analyzed: 2008-01-30 | Analyzed By: LD
Prep Batch: 38863 | QC Preparation: 2008-01-30 | Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	231	mg/Kg	1	250	<14.6	92	48.1 - 140.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	259	mg/Kg	1	250	<14.6	104	48.1 - 140.9	11	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	117	137	mg/Kg	1	100	117	137	42.1 - 138.9

Laboratory Control Spike (LCS-1)

QC Batch: 45148 | Date Analyzed: 2008-01-30 | Analyzed By: LD
Prep Batch: 38863 | QC Preparation: 2008-01-30 | Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	228	mg/Kg	1	250	<14.6	91	48.1 - 140.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	230	mg/Kg	1	250	<14.6	92	48.1 - 140.9	1	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	109	92.5	mg/Kg	1	100	109	92	42.1 - 138.9

Laboratory Control Spike (LCS-1)

QC Batch: 45226 | Date Analyzed: 2008-02-02 | Analyzed By: LD
Prep Batch: 38952 | QC Preparation: 2008-02-02 | Prepared By: LD

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	160	mg/Kg	1	250	<14.6	64	48.1 - 140.9

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	152	mg/Kg	1	250	<14.6	61	48.1 - 140.9	5	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	94.6	91.2	mg/Kg	1	100	95	91	42.1 - 138.9

Laboratory Control Spike (LCS-1)

QC Batch: 45227 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	7.72	mg/Kg	1	10.0	<0.0118	77	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	7.73	mg/Kg	1	10.0	<0.0118	77	70 - 130	0	

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
Trifluorotoluene (TFT)	0.967	0.934	mg/Kg	1	1.00	97	93	70 - 130
4-Bromofluorobenzene (4-BFB)	0.934	0.940	mg/Kg	1	1.00	93	94	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 45229 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.953	mg/Kg	1	1.00	<0.00300	95	70 - 130
Toluene	0.932	mg/Kg	1	1.00	<0.00300	93	70 - 130
Ethylbenzene	0.904	mg/Kg	1	1.00	<0.00400	90	70 - 130
Xylene	2.72	mg/Kg	1	3.00	<0.0140	91	70 - 130

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.946	mg/Kg	1	1.00	<0.00300	95	70 - 130	1	
Toluene	0.929	mg/Kg	1	1.00	<0.00300	93	70 - 130	0	
Ethylbenzene	0.911	mg/Kg	1	1.00	<0.00400	91	70 - 130	1	
Xylene	2.75	mg/Kg	1	3.00	<0.0140	92	70 - 130	1	

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
Trifluorotoluene (TFT)	1.01	1.02	mg/Kg	1	1.00	101	102	70 - 130
4-Bromofluorobenzene (4-BFB)	0.981	0.984	mg/Kg	1	1.00	98	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 149260

QC Batch: 45139 | Date Analyzed: 2008-01-30 | Analyzed By: LD
Prep Batch: 38863 | QC Preparation: 2008-01-30 | Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	137	mg/Kg	1	250	<14.6	55	35.6 - 173.6

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO [3]	184	mg/Kg	1	250	<14.6	74	35.6 - 173.6	29	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
n-Triacontane [4]	156	191	mg/Kg	1	100	156	191	33 - 156.2

Matrix Spike (MS-1) Spiked Sample: 149153

QC Batch: 45148 | Date Analyzed: 2008-01-30 | Analyzed By: LD
Prep Batch: 38863 | QC Preparation: 2008-01-30 | Prepared By: LD

continued ...

[3]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[4]High surrogate recovery due to peak interference.

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	[5]	4310	mg/Kg	1	250	4310	0	35.6 - 173.6

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

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	[6]	3340	mg/Kg	1	250	4310	1336	35.6 - 173.6	25	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
n-Triacontane	[7] [8]	958	843	mg/Kg	1	100	958	843	33 - 156.2

Matrix Spike (MS-1) Spiked Sample: 149341

QC Batch: 45226 | Date Analyzed: 2008-02-02 | Analyzed By: LD
Prep Batch: 38952 | QC Preparation: 2008-02-02 | Prepared By: LD

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	351	mg/Kg	1	250	248	41	35.6 - 173.6

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	346	mg/Kg	1	250	248	39	35.6 - 173.6	1	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
n-Triacontane	147	125	mg/Kg	1	100	147	125	33 - 156.2

Matrix Spike (MS-1) Spiked Sample: 149192

QC Batch: 45227 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	[9]	32.2	mg/Kg	1	10.0	16.3773	158	70 - 130

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

[5]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[7]High surrogate recovery due to peak interference.
[8]High surrogate recovery due to peak interference.
[9]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	[10]	30.0	mg/Kg	1	10.0	16.3773	136	70 - 130	7	

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)	0.895	0.875	mg/Kg	1	1	90	88	70 - 130
4-Bromofluorobenzene (4-BFB)	1.11	1.12	mg/Kg	1	1	111	112	70 - 130

Matrix Spike (MS-1) Spiked Sample: 149192

QC Batch: 45229 | Date Analyzed: 2008-01-31 | Analyzed By: DC
Prep Batch: 38890 | QC Preparation: 2008-01-30 | Prepared By: DC

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.06	mg/Kg	1	1.00	<0.00300	106	70 - 130
Toluene	1.11	mg/Kg	1	1.00	0.0838	103	70 - 130
Ethylbenzene	1.12	mg/Kg	1	1.00	0.1133	101	70 - 130
Xylene	3.34	mg/Kg	1	3.00	0.213	104	70 - 130

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.03	mg/Kg	1	1.00	<0.00300	103	70 - 130	3	
Toluene	1.10	mg/Kg	1	1.00	0.0838	102	70 - 130	1	
Ethylbenzene	1.14	mg/Kg	1	1.00	0.1133	103	70 - 130	2	
Xylene	3.33	mg/Kg	1	3.00	0.213	104	70 - 130	0	

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)	1.01	1.01	mg/Kg	1	1	101	101	70 - 130
4-Bromofluorobenzene (4-BFB)	1.03	1.05	mg/Kg	1	1	103	105	70 - 130

Standard (CCV-1)

QC Batch: 45139 | Date Analyzed: 2008-01-30 | Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	248	99	85 - 115	2008-01-30

Standard (CCV-2)

QC Batch: 45139 | Date Analyzed: 2008-01-30 | Analyzed By: LD

[10]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	248	99	85 - 115	2008-01-30

Standard (CCV-1)

QC Batch: 45148 Date Analyzed: 2008-01-30 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	246	98	85 - 115	2008-01-30

Standard (CCV-2)

QC Batch: 45148 Date Analyzed: 2008-01-30 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	85 - 115	2008-01-30

Standard (ICV-1)

QC Batch: 45226 Date Analyzed: 2008-02-02 Analyzed By: LD

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	222	89	85 - 115	2008-02-02

Standard (CCV-1)

QC Batch: 45226 Date Analyzed: 2008-02-02 Analyzed By: LD

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	239	96	85 - 115	2008-02-02

Standard (ICV-1)

QC Batch: 45227 Date Analyzed: 2008-01-31 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.982	98	85 - 115	2008-01-31

Standard (CCV-1)

QC Batch: 45227 Date Analyzed: 2008-01-31 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	0.962	96	85 - 115	2008-01-31

Standard (ICV-1)

QC Batch: 45229 Date Analyzed: 2008-01-31 Analyzed By: DC

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0962	96	85 - 115	2008-01-31
Toluene		mg/Kg	0.100	0.0942	94	85 - 115	2008-01-31
Ethylbenzene		mg/Kg	0.100	0.0908	91	85 - 115	2008-01-31
Xylene		mg/Kg	0.300	0.274	91	85 - 115	2008-01-31

Standard (CCV-1)

QC Batch: 45229 Date Analyzed: 2008-01-31 Analyzed By: DC

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0953	95	85 - 115	2008-01-31
Toluene		mg/Kg	0.100	0.0934	93	85 - 115	2008-01-31
Ethylbenzene		mg/Kg	0.100	0.0909	91	85 - 115	2008-01-31
Xylene		mg/Kg	0.300	0.274	91	85 - 115	2008-01-31

LAB Order ID # 8013009 Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9, Lubbock, Texas 79424, Tel (806) 794-1296, Fax (806) 794-1298, 1 (800) 378-1296
5002 Basin Street, Suite A1, Midland, Texas 79703, Tel (432) 689-6301, Fax (432) 689-6313
200 East Sunset Rd., Suite E, El Paso, Texas 79922, Tel (915) 585-3443, Fax (915) 585-4944, 1 (888) 588-3443
6015 Harris Pkwy., Suite 110, Ft. Worth, Texas 76132, Tel (817) 201-5260

Company Name: NOVA ENVIRONMENTAL
Phone #: 432-520-7720
Address: (Street, City, Zip)
Fax #:
Contact Person: Ron Raunsaville
E-mail: jkoonce@novatraining.cc
Invoice to: (If different from above) Centurion Pipeline
Project #:
Project Name: GLADIOLA GATHERING
Project Location (including state): LEA County, NM
Sampler Signature: Ron Raunsaville

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
11-1105	S. CENT. E. WALL, 4'	1	4oz		X							X		01/29/08	1352
1106	FLOWPATH -														
1107	FP-N.W. WALL, 4'	1	4oz.		X							X		01/29/08	1510
1108	FP-N.E. WALL, 4'	1	"		X							X		"	1506
1109	FP-CENT. FLOOR, 6'	1	"		X							X		"	1514
1110	FP-S.W. WALL, 5'	1	"		X							X		"	1520
1111	FP-S.E. WALL, 5'	1	"		X							X		"	1523
1112	FP-S. FLOOR, 8'	1	"		X							X		"	1526
1113	FP-S. END WALL, 4'	1	4oz		X							X		"	1530

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	CHLORIDES					Turn Around Time if different from standard	Hold
	X		X														X						
	X		X														X						
	X		X														X						
	X		X														X						
	X		X														X						
	X		X														X						
	X		X														X						
	X		X														X						

Relinquished by: Ron Raunsaville Date: 01/30/08 Time: 0835
Received by: Rebecca Haskell Date: 1/30/08 Time: 835

Relinquished by: Rebecca Haskell Date: 1/30/08 Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Date: 1/30/08 Time: 8:30

LAB USE ONLY
Intact: Y N
Headspace: Y N
Temp: 5.3
Log-In-Review

REMARKS:
All to ts-Midland

- [ ] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Carrier # Carry-in

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

APPENDIX B

NOVA
safety and environmental

Photographic Documentation

Client: Centurion Pipeline, L.P.
Site Location: Lea County, New Mexico
Photograph Date: As Noted

Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Gladiola Gathering

Photograph No. 1

Date: 01/21/08

Direction: South

Description: View of pipeline excavation trench prior to line change out.

Photograph No. 2

Date: 01/21/08

Direction: North

Description:
View to the north of the surface spill flowpath.

NOVA
safety and environmental

Photographic Documentation

Client: Centurion Pipeline, L.P.
Site Location: Lea County, New Mexico
Photograph Date: As Noted

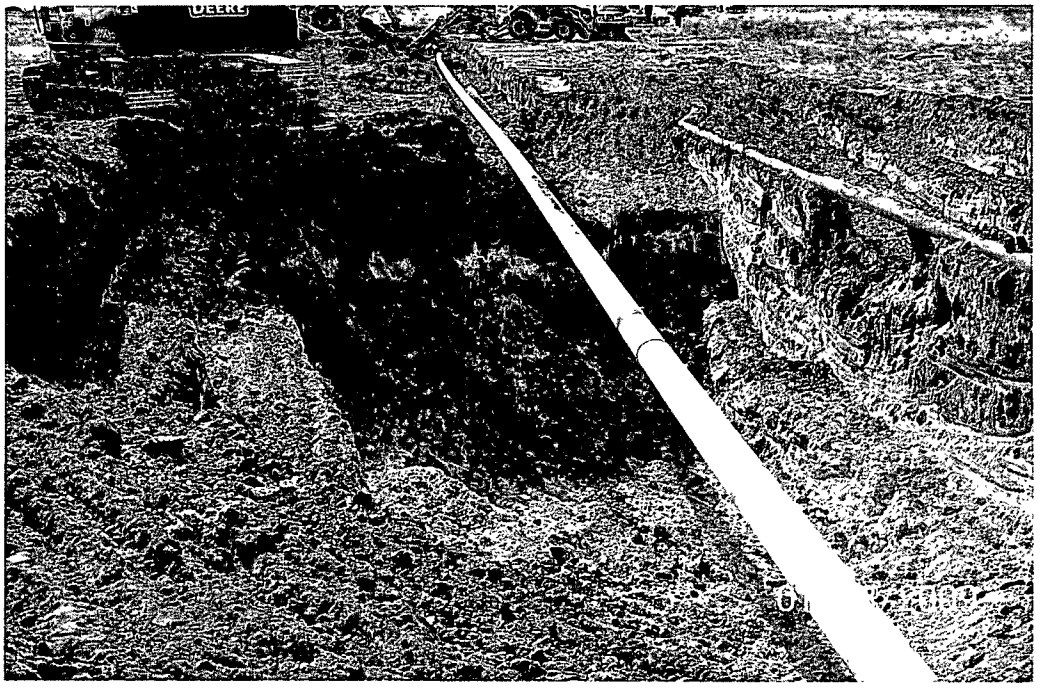
Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Gladiola Gathering

Photograph No. 3

Date: 01/23/08

Direction: View South

Description: View of main excavation at leak source following pipeline change out.

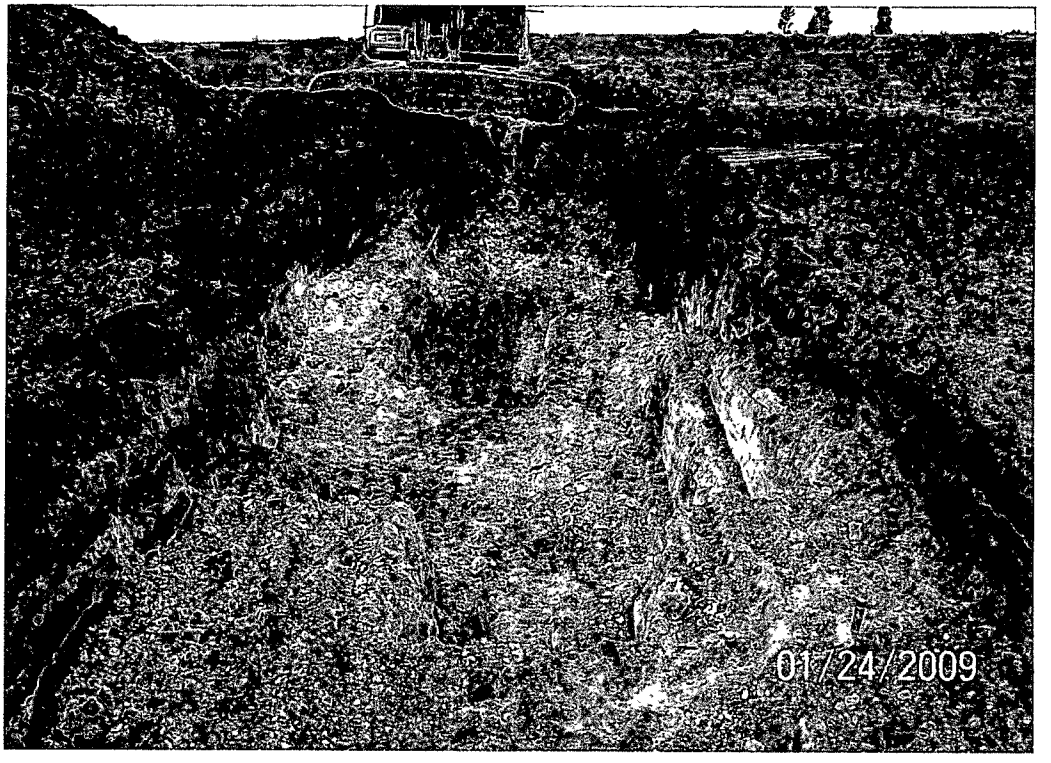


Photograph No. 4

Date: 01/24/08

Direction: View South.

Description: View of flow path excavation to the south.



NOVA
safety and environmental

Photographic Documentation

Client: Centurion Pipeline, L.P.
Site Location: Lea County, New Mexico
Photograph Date: As Noted

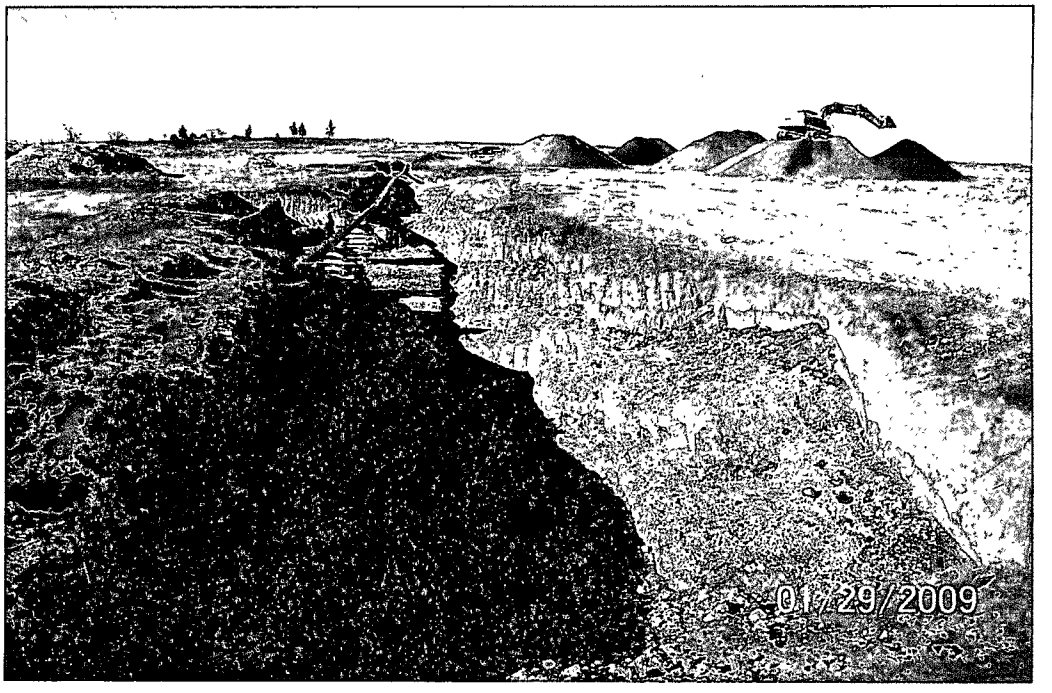
Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Gladiola Gathering

Photograph No. 5

Date: 01/29/08

Direction: View North

Description: View to the north of the flow path excavation area.

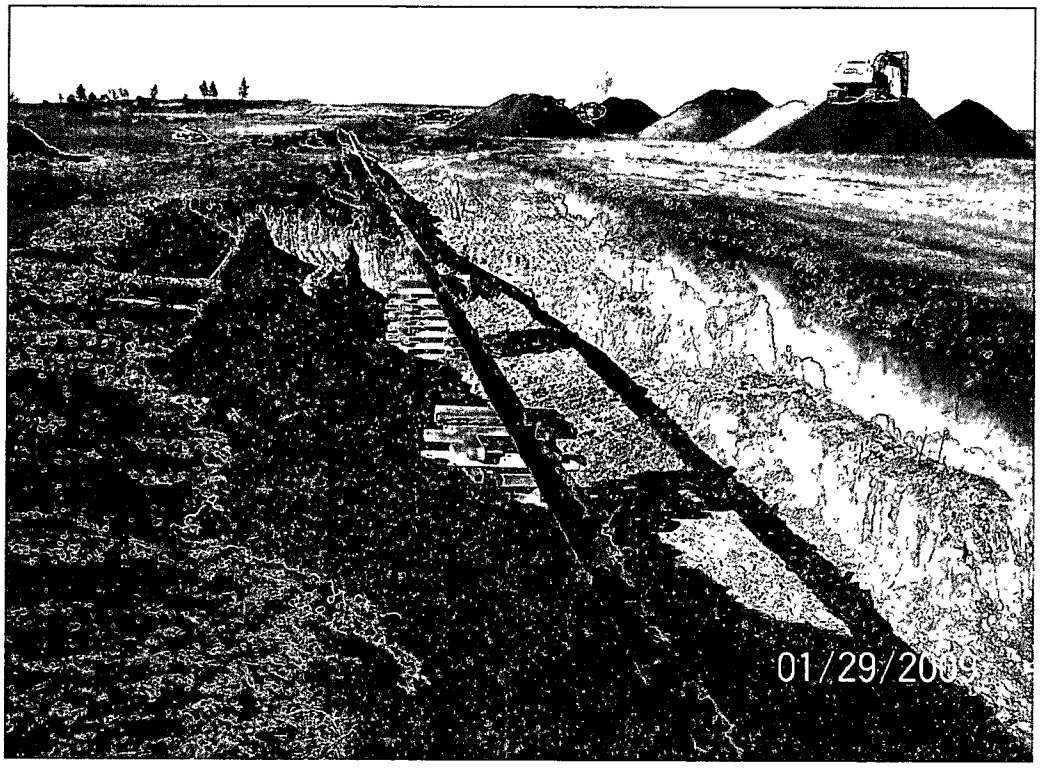


Photograph No. 6

Date: 01/29/08

Direction: View North.

Description: View of flow path excavation area south of pipeline change out.



NOVA
safety and environmental

Photographic Documentation

Client: Centurion Pipeline, L.P.
Site Location: Lea County, New Mexico
Photograph Date: As Noted

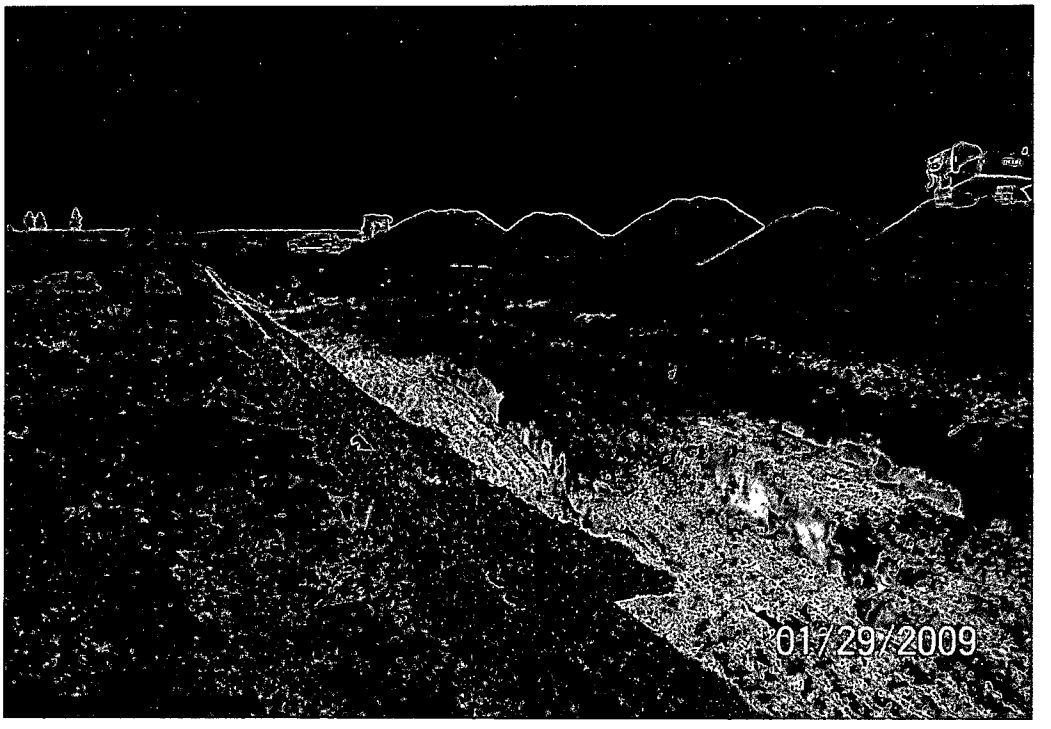
Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Gladiola Gathering

Photograph No. 7

Date: 01/29/08

Direction: View North

Description: View of excavation south of leak source.

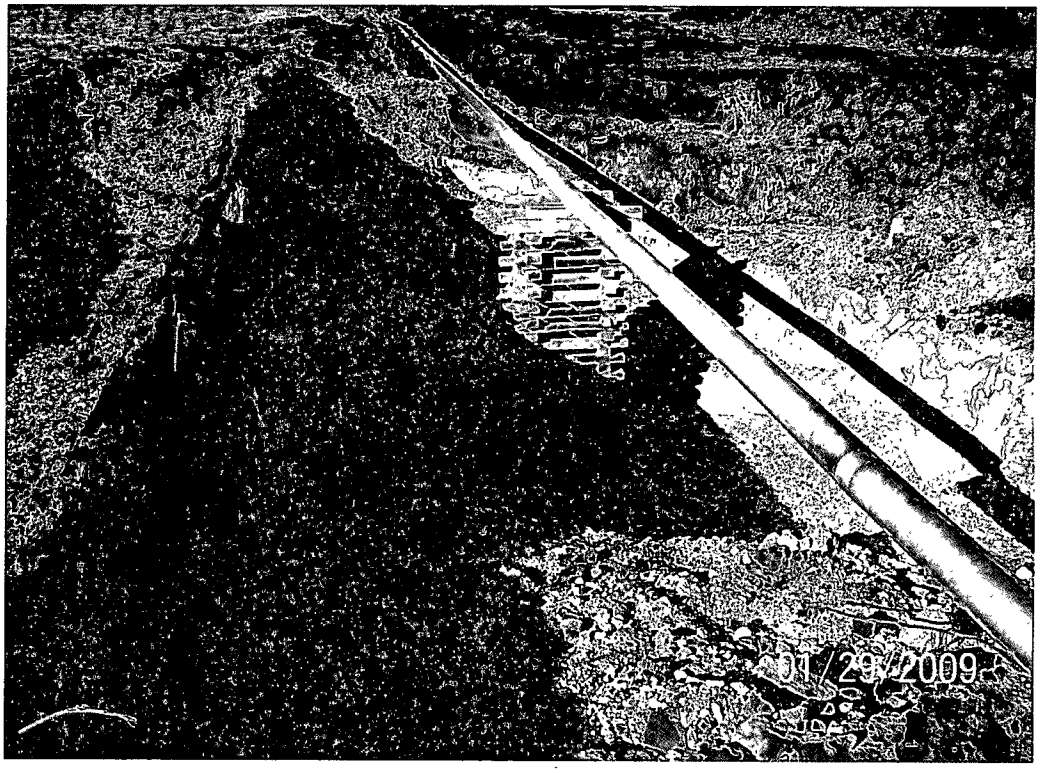


Photograph No. 8

Date: 05/07/07

Direction: View North.

Description: View of leak source excavation area following completion of excavation activities.



NOVA
safety and environmental

Photographic Documentation

Client: Centurion Pipeline, L.P.
Site Location: Lea County, New Mexico
Photograph Date: As Noted

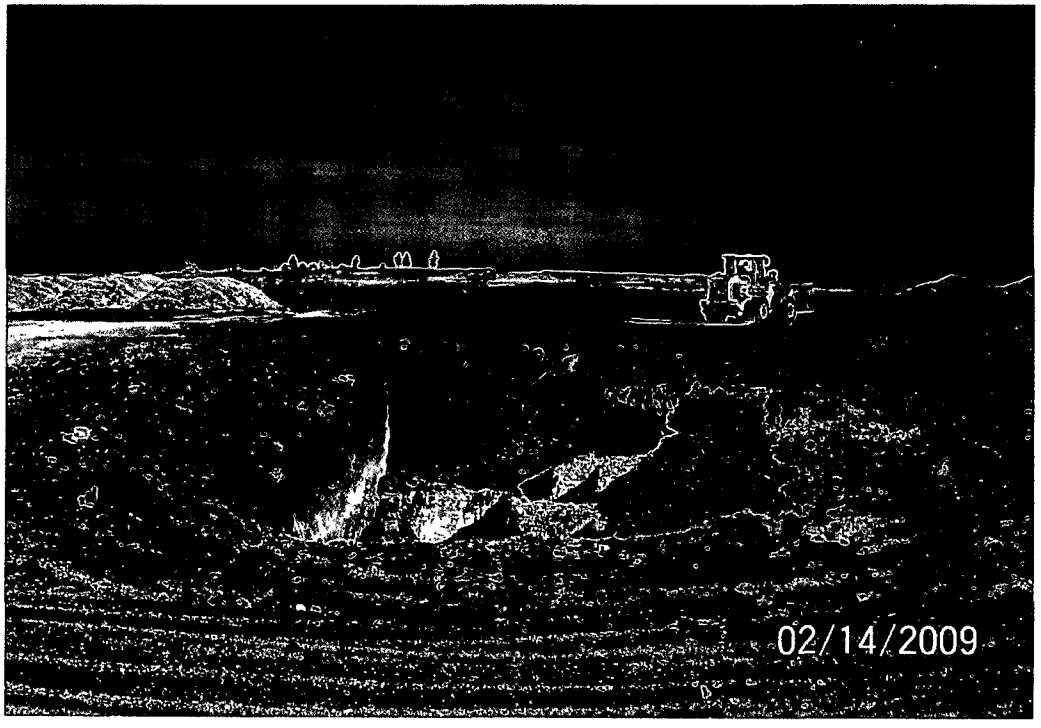
Prepared by: NOVA
Photographer: Ron Rounsaville
Project Name: Gladiola Gathering

Photograph No. 9

Date: 02/14/08

Direction: View North

Description: View of southern end of excavation during final stages of backfilling activities.

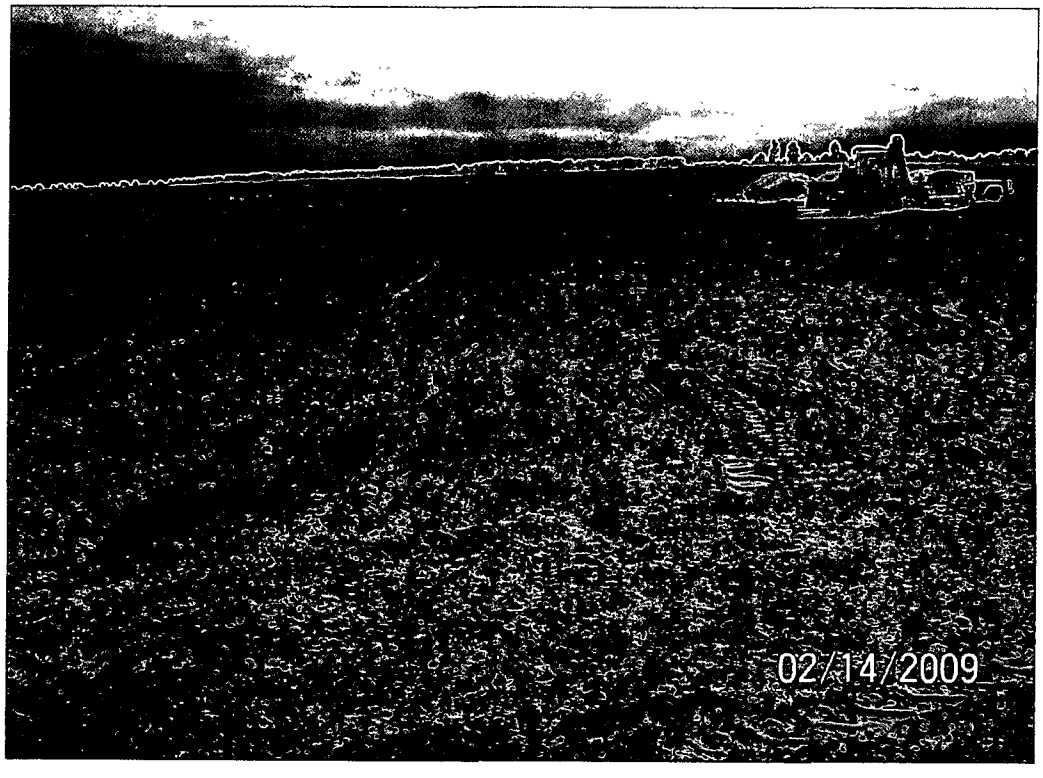


Photograph No. 10

Date: 02/14/08

Direction: View South.

Description: View of excavation area following completion of backfilling activities.



APPENDIX C

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Centurion Pipeline, LP	Contact Becky Moore
Address 2200 East CR 90, Midland, TX 79706	Telephone No. 432-978-8067
Facility Name 8" Gathering Line into Gladiola	Facility Type Sweet Crude Oil Pipeline

Surface Owner Wesley Harris	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	9	13 S	38 E					Lea

Latitude N 33° 12.731 Longitude W 103° 06.610

NATURE OF RELEASE

Type of Release **Sweet Crude Oil**	Volume of Release **75 bbls**	Volume Recovered **60 bbls**
Source of Release: **At the Crossroads-Texas State line, on the 8" crude oil gathering line into Gladiola.**	Date and Hour of Occurrence 01/18/08	Date and Hour of Discovery **01/18/08 at 2:30 pm**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Chris Williams**	
By Whom? **Becky Moore**	Date and Hour **01/19/08 at 10 am**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Internal corrosion caused a leak at the Crossroads-Texas State Line System on the 8" Gathering Line into Gladiola. Emergency Action response included stopping the source of the leak with a temporary clamp; also trucks were immediately called in to vacuum free oil. A 3rd party remediation company was called in to assist with emergency response and for assistance in remediation and clean up efforts. The area was contained until an emergency one call was cleared with the State of NM on 8/22/08 (due to state office closure during holiday). Excavation of the contaminated soil was being completed on 8/23/08. Affected soil was brought to the surface and staged on plastic at the site. Soil samples from the bottom of the excavation and from the stock piles were taken 8/23/08 for lab analysis to ensure NM State clean up levels are met.

Describe Area Affected and Cleanup Action Taken.*
Area affected at the source of the leak is apx. 40' x 50' and apx. 10' in depth. Also an area of apx. 250' in length along the pipeline ROW and 12" deep were affected. Estimated 1200 Cu. Yds. of contaminated soil is currently being hauled offsite to Gandy Landfill West of Tatum. At the request of the landowner clean soil will be used from the Landowner's orchard which is within proximity of the affected site.
The pipeline is being replaced with 300' of new pipeline from the source of the corrosion. A final C-141 will be submitted and accompanied with a final report including lab analysis, pictures, and all associated closure documentation as required.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: BMoore	OIL CONSERVATION DIVISION
Printed Name: Becky Moore	Approved by District Supervisor:
Title: Compliance Coordinator	Approval Date: / Expiration Date:
E-mail Address: Rebecca_Moore@oxy.com	Conditions of Approval: / Attached ☐
Date: 01/23/08 Phone: 432-978-8067	

Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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HOBBS OCD

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Centurion Pipeline, LP	Contact: Becky Moore
Address: P.O. Box 51790, Midland, TX 79710 (mailing address) 6 Desta Drive, Midland, TX 79705 (physical address)	Telephone No. 432-686-6805 (office) 432-978-8067 (cell)
Facility Name: *" Gathering Line into Gladiola Station	Facility Type: Sweet Crude Oil Pipeline

Surface Owner: Wesley Harris	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	9	13 S	38 E					Lea

Latitude N 33' 12.731 Longitude W 103' 06.610

NATURE OF RELEASE

Type of Release: **Sweet Crude Oil**	Volume of Release: **75 bbls.**	Volume Recovered: **60 bbls.**
Source of Release: 8" crude oil gathering line into Gladiola Station.	Date and Hour of Occurrence **01/18/08**	Date and Hour of Discovery **01/18/08 at 2:30 pm**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Chris Williams	
By Whom? Becky Moore	Date and Hour 01/19/08 at 10 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.***Cause of leak was the result of internal corrosion of the 8-inch steel pipeline. Initial remedial actions included recovering apx. 60 barrels of crude oil. The resulting surface stain attributed to the release was apx. 180 feet in length and 20 feet in width. The affected pipeline was replaced with 300' of new pipe. Apx. 2800 cubic yards of hydrocarbon impacted soil was excavated from the site. During the course of excavation and remediation activities apx. 1960 cu yds of hydrocarbon impacted soil was transported to a commercial NMOCD permitted landfarm for proper disposal. Apx. 1,500 cu yds of non-impacted soil was used to blend with the remaining 2,100 cy of hydrocarbon impacted soil.On February 12, 2008, permission to backfill was approved by the NMOCD Hobbs district office.**

Describe Area Affected and Cleanup Action Taken.***Area affected from the hydrocarbon leak was contained on-site and within the pipeline right of way. NMOCD regards the depth of the groundwater in the vicinity of the release site is apx. 70 feet below ground surface (bgs). During the course of excavation and remediation activities apx. 1960 cu yds of hydrocarbon impacted soil was transported to a commercial NMOCD permitted landfarm for proper disposal. Apx. 1,500 cu yds of non-impacted soil was used to blend with the remaining 2,100 cy of hydrocarbon impacted soil. On February 12, 2008, permission to backfill was approved by the NMOCD Hobbs district office. Following backfilling activities the site was contoured to the surrounding topography. The analytical results of final confirmation soil samples collected from the main excavation floor, excavation sidewalls, flowpath floor and flowpath sidewalls indicate benzene, BTEX and TPH concentrations below the required NMOCD regulatory levels of 10 mg/Kg, 50 mg/Kg and 1,000 mg/Kg, respectively.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: KAMoore	OIL CONSERVATION DIVISION
Printed Name: Becky Moore	Approved by District Supervisor: ENVIRONMENTAL ENGINEER
Title: Compliance Coordinator	Approval Date: 4-25-08 / Expiration Date:
E-mail Address: Rebecca_Moore@oxy.com	Conditions of Approval: / Attached ☐
Date: 3/14/2008 Phone: 432-686-6805	IRP # 1762

* Attach Additional Sheets If Necessary

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