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

Form C-141 Revised August 8, 2011

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

1220 S. St. Flan	Santa Fe, NM 87505												
Release Notification and Corrective Action													
OPERATOR Initial Report Final Report													
Name of Company ConocoPhillips Company Contact Lisa H													
Address 34	01 East 30		Telephone 1	No. (505) 2	258-16	507							
Facility Nat	me: Edga	r Federal #2	2			Facility Typ	e: Gas W	ell					
Surface Ow	mer Fede	ral		Mineral (Owner	Federal (S	F-079116))	A	PI No.	3004506	893	
			2	LOCA	ATIO	N OF RE	LEASE	8					
Unit Letter	Section	Township 27N	Range	Feet from the	North	/South Line	Feet from	the	East/West	Line	County San Juan		
	U	2/1	12 11	Latitude 3	6.60714	Longitud	e -108.059	36		L CO!	VS. DIV [DIST.	3
				NAT	TURE	OF REL	EASE	00		NO	V 1 8 20	16	и <u>п</u>
Type of Rele	ease Hyd	rocarbon (Hi	istoric)	0		Volume of	Release	Unkno	own Vo	lume R	ecovered	Non	ie
Source of Re	elease Belo	ow Grade Ta	nk (BGT)			Date and H	lour of Occu	urrence	Da	te and l	Hour of Dis	covery	
Was Immedi	ate Notice (Tiven?				If VES To	Whom?		Fe	bruary	17, 2016		
ti do minica			Yes [No 🛛 Not R	equired	N/A	WHOM:						
By Whom?	N/A					Date and H	lour N/A						
Was a Water	course Read	ched?	Yes 🛛	No		If YES, Volume Impacting the Watercourse. N/A							
If a Watercon N/A	urse was Im	pacted, Descr	ibe Fully.	*									
Describe Cau Below-Grad	use of Probl le Tank Clo	em and Reme sure activitie	dial Actio es with sa	n Taken.* mples taken resu	lting in	constituents	exceeded st	tandar	ds outline	d by 19	.15.17.13 N	MAC.	
Describe Are The below confirming approxima for Remedi	a Affected grade tan a release tely 26.5' y iation of L	and Cleanup A k field samp . Test pits r k 21.5' x 14' eaks, Spills	Action Tai ble result reveal co deep. A and Rel	ken.* s were above r Intamination wa Inalytical result ease. No furthe	egulate as >10 ts were er work	ory standar feet. Furthe below the will be per	d by USEP er delinatio regulatory formed. T	PA met on was stand he fin	thod 418. s complet lards set al report	1 for T ted and forth in is atta	PH and O d excavat n the NMC ched for r	rganic ion ter)CD G eview.	Vapors, minated at uidelines
I hereby cert regulations a public health should their or the enviro federal, state	ify that the i ll operators or the envir operations h nment. In a , or local law	information gi are required t ronment. The ave failed to addition, NMC ws and/or regu	iven above to report and acceptane adequately OCD acceptane ulations.	e is true and comp nd/or file certain to ce of a C-141 rep y investigate and to otance of a C-141	olete to t release n ort by th remediat report d	he best of my otifications a e NMOCD m te contamination of the contamination of the second loes not relieved	knowledge nd perform c arked as "Fi on that pose e the operate	and un correct inal Re e a threat tor of re	ive actions port" does at to groun esponsibilit	for rele not relid water ty for co	uant to NM eases which eve the ope , surface wa ompliance v	OCD re may er rator of ater, hu vith any	ules and ndanger Ilability man health y other
Signature:	Signature: Under Signature: OIL CONSERVATION DIVISION Approved by Environmental Specialist:						-						
Printed Nam	e: Lisa Hu	nter								a	xa	-	}>
Title: Field	Environme	ntal Specialis	st			Approval Da	te: 12/2	120	Expi	ration I	Date:		
E-mail Addr	ess: Lisa.H	unter@cop.co	om			Conditions of	Approval:				Attached		e.
Date: Nover	mber 16, 20	16	Phone:	(505) 258-1607		NVFI	6362	336	176		6.6.6		di e e

* Attach Additional Sheets If Necessary

Edgar Federal #2 Release Report

Unit Letter G, Section 1, Township 27 North, Range 12 West San Juan County, New Mexico

November 9, 2016

Prepared for: **ConocoPhillips** 5525 Highway 64 Farmington, New Mexico 87401

Prepared by: Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401



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ConocoPhillips Edgar Federal #2 Release Report

Prepared for:

ConocoPhillips 5525 Highway 64 Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401

Heather M. Wood

Heather M. Woods, P.G., Area Manager

Reviewed by:

Russell Knight, PG, Principal Hydrogeologist

November 9, 2016

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Appendices

Appendix A	BGT Field Work Summary Sheet
Appendix B	Analytical Laboratory Reports



1.0 Introduction

The ConocoPhillips Edgar Federal #2 release site is located in Unit Letter G, Section 1, Township 27 North, Range 12 West, in San Juan County, New Mexico. A historical release was discovered on February 17, 2016, during below grade tank (BGT) closure activities at the site.

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

Site Name	Edgar Federal #2								
Site Location Description	Unit Letter G, Section	Unit Letter G, Section 1, Township 27 North, Range 12 West							
Wellhead GPS Location	N36.60686 and W108.05967	nd Release GPS N36.60714 and Location W108.05936							
Land Jurisdiction	Navajo Nation	February 17, 2016							
Release Description	Historical								
NNEPA/NMOCD Site Rank	10								
Distance to Nearest Surface Water	Unnamed, ephemeral the southwest of the r	Unnamed, ephemeral wash located approximately 660 feet to the southwest of the release location							
Estimated Depth to Groundwater	Greater than 100 feet below grade surface (bgs)	ater than 100Distance toGreater than 1,000below gradeNearest Waterface (bgs)Well or Spring							

2.0 Release Summary

3.0 NNEPA/NMOCD Site Ranking

The release site is located on the Navajo Nation under the jurisdiction of the Navajo Nation Environmental Protection Agency (NNEPA). Based on NNEPA recommendations, remediation of soils associated with natural gas and condensate releases are assigned a rank in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993). This site was assigned a ranking score of 10 (Table 1).

Depth to groundwater at the site is estimated to be greater than 100 feet bgs based on the information published on the New Mexico Office of the State Engineer (NMOSE) online New Mexico Water Rights Reporting System (NMWRRS) and elevation differential between the location and large, local washes.

Rule

A review was completed of the NMWRRS and no water wells were identified within a 1,000 foot radius of the location. No water wells were observed within a 1,000 foot radius of the location during a visual inspection.

An unnamed, ephemeral wash traverses the area approximately 660 feet southwest of the release location.

As outlined in 19.15.17.13 New Mexico Administrative Code (NMAC), BGT closure standards for the Edgar Federal #2 are as follows: 0.2 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), 100 mg/kg total petroleum hydrocarbons (TPH), and 250 mg/kg chlorides.

Based on the ranking score of 10, NNEPA/NMOCD action levels for remediated soils at the site are as follows: 10 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 mg/kg total petroleum hydrocarbons (TPH) as gasoline range organics (GRO) and diesel range organics (DRO).

4.0 Below Grade Tank Closure Sampling

4.1 Field Activities

On February 17, 2016, following removal of the BGT tank and liner, Rule Engineering, LLC (Rule) personnel conducted a visual inspection for surface/subsurface indications of a release. Staining and odor was observed in the western portion of the BGT excavation. Rule personnel then collected five soil samples (S-1 through S-5) from 0.5 feet beneath the floor of the BGT excavation. Figure 2 provides the location of the soil samples collected from below the BGT and the field work summary sheet is included in Appendix A.

4.2 Soil Sampling

The five soil samples (S-1 through S-5) collected from below the floor of the BGT excavation were combined to create soil confirmation sample BGT-1. A portion of BGT-1 was field screened for volatile organic compounds (VOCs) and chlorides, and field analyzed for TPH.

Field screening for VOC vapors was conducted with a photo-ionization detector (PID). Prior to field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field analysis for TPH was conducted per U.S. Environmental Protection Agency (USEPA) Method 418.1, utilizing a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure with includes calculation of a calibration curve using known concentration standards. Field screening for chloride was conducted using the Hach chloride low range test kit. Chloride concentrations were determined by drop count titration method using silver nitrate titrant.



The portion of BGT-1 collected for laboratory analysis was placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The sample was analyzed for BTEX per USEPA Method 8021B, TPH per USEPA Method 8015D, and chlorides per USEPA Method 300.0.

4.3 Field Screening and Laboratory Analytical Results

Field sampling results for soil composite sample BGT-1 indicated a VOC concentration of 934 ppm and a TPH concentration of greater than 2,500 mg/kg. Field chloride concentration was reported at 80 mg/kg.

Laboratory analytical results for sample BGT-1 reported a benzene concentration below the laboratory reporting limit of 0.047 mg/kg and a total BTEX concentration of 0.14 mg/kg. Laboratory analytical results for sample BGT-1 reported the TPH concentrations of 19 mg/kg as GRO and 300 mg/kg DRO by USEPA Method 8015D. The laboratory analytical result for sample BGT-1 for chloride concentration was 59 mg/kg.

Field and laboratory results for BGT-1 are summarized in Table 2, and the analytical laboratory report is attached.

5.0 Site Assessment

Field screening of the BGT sample indicated the presence of petroleum hydrocarbons in excess of NNEPA/NMOCD BGT closure standards. The same day of BGT closure sampling, Rule initiated an initial site assessment to delineate the horizontal and vertical extents of the historical release. Due to the limitations of the backhoe, the initial assessment was suspended and a continued site assessment was conducted utilizing a Geoprobe® on April 20, 2016.

5.1 Field Activities

On February 17, 2016, the initial site assessment included advancing three backhoe test pits (TP-1 through TP-3). Test pits were advanced to the limits of the equipment at depths ranging from 11 to 12 feet bgs. Backhoe test pit operations were suspended in favor of returning to the location at a later date to continue the assessment utilizing a Geoprobe®.

On April 20, 2016, Rule returned to the location to continue the site assessment utilizing a Geoprobe® to advance five soil borings (SB-1 though SB-5) at the location. Soil borings were advanced to depths ranging from 11 to 12 feet bgs where refusal on weathered sandstone was encountered. Test pit and soil boring locations are illustrated on Figure 2.



5.2 Soil Sampling

Rule collected soil samples from the test pits and soil borings at selected intervals. The lithology encountered at the site included clayey silty sand underlain by weathered sandstone. A portion of each sample was field screened for VOCs and selected samples were analyzed for TPH. Field screening for VOC vapors was conducted with a PID. Prior to field screening, the PID was calibrated with 100 ppm isobutylene gas. Field analysis for TPH was conducted for selected samples per USEPA Method 418.1, utilizing a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

5.3 Field Screening Results

Field screening results for site assessment samples collected from test pits TP-1 through TP-3 and soil borings SB-1 through SB-5 indicated VOC concentrations ranging from 0.0 ppm to 2,050 ppm. Field TPH results for selected site assessment samples indicated TPH concentrations ranging from 690 mg/kg to greater than 2,500 mg/kg. Site assessment field screening results are summarized in Table 3.

6.0 Excavation Confirmation Sampling

6.1 Field Activities

On July 18, 2016, Rule personnel returned to the location to provide excavation guidance and collect confirmation samples from the resultant excavation. The maximum extent of the excavation measured approximately 26.5 feet by 21.5 feet by 14 feet deep. Approximately 330 cubic yards of excavated soils were transported to the Envirotech Landfarm near Bloomfield, New Mexico for disposal/remediation and the excavation was backfilled with clean, imported material. A depiction of the final excavation with sample locations is included on Figure 3.

6.2 Soil Sampling

Rule collected six composite confirmation soil samples (SC-1 and SC-6) from the final excavation for field screening and laboratory analysis. Each confirmation soil sample is a representative composite comprised of five equivalent portions of soil collected from the sampled area.

A portion of each sample was field screened for VOCs and TPH. Field screening for VOC vapors was conducted with a PID. Prior to field screening, the PID was calibrated with 100 ppm isobutylene gas. Field analysis for TPH was conducted for selected samples per USEPA Method 418.1, utilizing a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.



Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX per USEPA Method 8021B and TPH (GRO/DRO) per USEPA 8015D.

Field screening and laboratory analytical results are summarized in Table 4. The analytical laboratory report is included in Appendix B.

6.3 Field Screening Results

Field screening results for soil confirmation samples SC-1 through SC-6 indicated VOC concentrations ranging from 15 ppm to 339 ppm. The field TPH concentration results for samples SC-1 through SC-6 ranged from 80.8 mg/kg to 1,079 mg/kg. Excavation confirmation field screening results are summarized in Table 4.

6.4 Laboratory Analytical Results

Laboratory analytical results for excavation confirmation samples SC-1 through SC-6 reported benzene concentrations below the laboratory reporting limits, which are below the NNEPA/NMOCD action level of 10 mg/kg. Total BTEX concentrations for samples SC-1 though SC-6 ranged from below the laboratory reporting limits to 1.1 mg/kg, which are below the NNEPA/NMOCD action level of 50 mg/kg. Concentrations of TPH (GRO/DRO) for samples SC-1 through SC-6 ranged from below the NNEPA/NMOCD action level of 50 mg/kg. Concentrations of TPH (GRO/DRO) for samples SC-1 through SC-6 ranged from below the laboratory reporting limits to 713 mg/kg, which are below the NNEPA/NMOCD action level of 1,000 mg/kg for a site rank of 10.

Excavation confirmation laboratory analytical results are summarized in Table 4. The analytical laboratory report is included in Appendix B.

7.0 Conclusions

The ConocoPhillips Edgar Federal #2 release site is located in Unit Letter G, Section 1, Township 27 North, Range 12 West, in San Juan County, New Mexico. A historical release was discovered on February 17, 2016, during BGT closure activities at the site. A site assessment was conducted utilizing both test pits and soil borings to delineate as best as possible the vertical and horizontal extents of the historical release. Following the excavation of hydrocarbon impacted soils, confirmation samples SC-1 through SC-6 were collected from the resultant excavation which measured approximately 26.5 feet by 21.5 feet by 14 feet deep. Laboratory analytical results for confirmation samples SC-1 through SC-6 reported benzene, total BTEX, and total TPH (GRO/DRO) concentrations below the applicable NNEPA/NMOCD action levels for a site rank of 10. Approximately 330 cubic yards of impacted soil was transported to the Envirotech Landfarm for disposal/remediation and the excavation was backfilled with clean, imported material.



Based on laboratory analytical results of the confirmation soil samples, no further work is recommended.

8.0 Closure and Limitations

This report has been prepared for the exclusive use of ConocoPhillips and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with ConocoPhillips. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.



Tables

1. 海外小小小村子 海南



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Table 1. NMOCD Site Ranking DeterminationConocoPhillipsEdgar Federal #2San Juan County, New Mexico

Ranking Criteria	Ranking Site-Base		Basis for Determination	Data	
	Score	Ranking Score		Sources	
Depth to Groundwater	· · · · · · · · · · · · · · · · · · ·				
<50 feet	20		Elevation differential information derived from the	NMOCD Online database,	
50-99 feet	10	0	topographic map of the area between the site and large, local washes.	Gallegos Trading Post Quadrangle, Google Earth,	
>100 feet	0				
		1			
Wellhead Protection Area		1			
<1,000 feet from a water source, or <200 feet from private domestic water source	20 (Yes)	0	No water source or recorded water wells within 1,000 foot radius of location.	NMOSE NMWRRS, Gallegos Trading Post Quadrangle, Google Earth, and Visual Inspection	
	0 (110)				
Distance to Surface Water Body					
<200 horizontal feet	20			Gallegos Trading Post	
200 to 1,000 horizontal feet	10	10	An unnamed, ephemeral wash located approximately 660 feet southwest of release location.	Quadrangle, Google Earth,	
>1,000 horizontal feet	0	n 1955 - A ^{ll} 1976 - Da		and visual inspection	
Site Based Total Rank	ing Score	10			



Table 2. BGT Soil Sampling ResultsConocoPhillipsEdgar Federal #2San Juan County, New Mexico

			Sample Depth	Field	Sampling Res	sults	Laboratory Analytical Results				
		Sample	(ft below BGT	VOCs (PID)	TPH - 418.1	Chloride**	Benzene	Total BTEX	TPH - GRO	TPH - DRO	Chloride***
Sample ID	Date	Туре	liner)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -	1.12	BGT Clo	sure Standards*	- 1.	100	250	0.2	50	10	00	250
BGT-1	2/17/16	Composite	0.5	934	>2,500	80	<0.047	0.14	19	300	59

Notes: PID - photo-ionization detector

ppm - parts per million

mg/kg - milligrams/kilograms

VOCs - volatile organic compounds

TPH - total petroleum hydrocarbons per USEPA Method 418.1

BTEX - benzene, toluene, ethylbenzene, and total xylenes

*19.15.17.13 NMAC

**Per Hach chloride low-range test kit

***Per USEPA Method 300.0 chlorides



Table 3. Site Assessment Field Soil Sampling Results - VOCs and TPH Edgar Federal #2 San Juan County, New Mexico ConocoPhillips

	a star so a	Sample Depth	VOCs* (PID)	TPH* (418.1)
Sample ID	Date	(ft bgs)	(ppm)	(mg/kg)
N	NEPA/NMOC	D Action Levels**	100	1,000
		3.5	934	>2,500
TP-1	2/17/16	7	353	1,540
		11	1,330	
		7	3.0	
TP-2	2/17/16	9	0.4	
		11	1.2	
		2	0.6	
TP-3	2/17/16	10	667	
		12	2,050	· · · · · · · · · · · · · · · · · · ·
		3.5 to 4	0.6	
		4 to 6	0.8	
SB-1	4/20/16	6 to 8	0.8	· · · · · ·
		8 to 10	0.5	<u></u>
		10 to 12	0.4	
		3 to 4	0.7	
		4 to 6	0.2	1
SB-2	4/20/16	6 to 8	0.3	
		8 to 10	0.2	
		10 to 12	0.3	- a
		3 to 4	0.5	
		4 to 5	3.4	
		5 to 6	103	
		6 to 7	215	690
SB-3	4/20/16	7 to 8	2.2	
		8 to 9	1.5	
		9 to 10	2.7	
		10 to 11	0.5	
		11 to 12	1.0	
		2 to 4	1.0	
		4 to 6	0.8	**
SR 4	1/20/16	6 to 8	0.3	
3D-4	4/20/10	8 to 9	0.7	
		9 to 10	0.1	
		10 to 11	0.5	



Table 3. Site Assessment Field Soil Sampling Results - VOCs and TPH Edgar Federal #2 San Juan County, New Mexico ConocoPhillips

Sample ID	Date	Sample Depth (ft bgs)	TPH* (418.1) (mg/kg)	
N	NEPA/NMOC	D Action Levels**	100	1,000
		2 to 3	0.5	
		4 to 6	0.8	-
SB-5	4/20/16	6 to 8	0.7	· ·
		8 to 9	0.7	-
		9 to 11	0.6	-

Notes: VOCs - volatile organic compounds

PID - photo-ionization detector

ft bgs - feet below ground surface

ppm - parts per million

mg/kg - milligrams/kilograms

TPH-total petroleum hydrocarbons per USEPA Method 418.1

NNEPA - Navajo Nation Environmental Protection Agency

NMOCD - New Mexico Oil Conservation Division

* field results

**NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993)



Table 4. Excavation Confirmation Field Screening and Laboratory Analytical Results

ConocoPhillips

Edgar Federal #2

San Juan County, New Mexico

Sample Name	Date	Approximate Sample Depth (ft bgs)	Field VOCs by PID (ppm)	Field TPH by 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylben- zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)
	NNEPA/NMO	CD Action Level*	100	1,000**	10	NE	NE	NE	50	1,0	00**
SC-1	7/18/2016	14	339	1,079	<0.025	<0.050	0.055	0.12	0.18	29	240
SC-2	7/18/2016	14	300	169	<0.024	<0.049	<0.049	<0.093	ND	<4.9	99
SC-3	7/18/2016	0 to 14	300	824	<0.025	<0.049	0.15	0.93	1.1	63	650
SC-4	7/18/2016	0 to 14	235	203	<0.025	<0.050	<0.050	<0.099	ND	<5.0	20
SC-5	7/18/2016	0 to 14	50	185	< 0.023	<0.046	<0.046	<0.092	ND	<4.6	22
SC-6	7/18/2016	0 to 14	15	80.8	<0.023	<0.047	<0.047	<0.094	ND	<4.7	<9.9

Notes: VOCs - volatile organic compounds

PID - photoionization detector

ft bgs - feet below grade surface

ppm - parts per million

mg/kg - milligrams per kilogram

NNEPA - Navajo Nation Environmental Protection Agency

NMOCD - New Mexico Oil Conservation Division

NE - not-established

ND - not detected above laboratory reporting limits BTEX - benzene, toluene, ethylbenzene, and xylenes TPH - total petroleum hydrocarbons GRO - gasoline range organics DRO - diesel range organics

*Based on the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 1993)

**Based on a site ranking of 10.



Figures





ips\ConocoPhilips\Edgar Fed #2\Edgar Fed #2 Topo Map.mxd Document Path: U:\ConocoPhill





Appendix A

BGT Field Work Summary Sheet

Rule

Rule Engineering Field Work Summary Sheet

Company:	ConocoPhillips	
Location:	Edgar Federal #2	and states and set
API:	30-045-06893	
Legals:	G-S1-T27N-R12W	
County:	San Juan	
Land Jurisd	iction: Navajo Nation	

Siting Information based on BGT Location:

Staff: Heather Woods

Wellhead GPS: 36.60686, -108.05967 BGT GPS: 36.60714 -108.05936

2/17/16

Site Rank 10

Date:

Groundwater: Estimated to be greater than 100 feet below grade surface, based on elevation diffential between the location and nearby major washes.

Surface Water: An unnamed ephemeral wash is located approximately 660 feet southwest of the BGT.

Wellhead Protection: No water wells identified within 1,000 ft of location.

Objective: Closure sampling for BGT

Tank Size: 120 barrels, removed during closure activities

Liner: Liner present, removed during closure activities

Observations: No staining or excess moisture was observed below the tank.

Notes: Ms. Vanessa Fields, OCD representative, was present during sample collection activities.

Staining and odor was observed in the western portion of the BGT excavation.

Field Sampling Information

	Type of	Collection	Collection	VOCs1	VOCs	TPH ²	TPH	Chloride ³	Chloride
Name	Sample	Time	Location	(ppm)	time	mg/kg	Time	mg/kg	Time
BGT-1	Composite	9:45	See below	934	9:52	>2,500	10:15	80	10:20

BGT-1 is a 5-point composite of S-1 through S-5, collected 0.5 ft below BGT. Sample BGT-1 was laboratory analyzed for TPH (8015), BTEX (8021) and chlorides (300.0).



Field Sampling Notes:

¹ Field screening for volatile organic compounds (VOC) vapors was conducted with a photo-ionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas.

² Field analysis for TPH was conducted using a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

³Field screening for chlorides was conducted using the Hach chloride low range test kit. Chloride concentrations are determined by drop count titration method using silver nitrate titrant.



Appendix B

Analytical Laboratory Reports





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

February 29, 2016

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: CoP Edgar Federal #2

OrderNo.: 1602807

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/18/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1602807

Date Reported: 2/29/2016

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BGT-1 **CLIENT:** Rule Engineering LLC **Project:** CoP Edgar Federal #2 Collection Date: 2/17/2016 9:45:00 AM Lab ID: 1602807-001 Matrix: SOIL Received Date: 2/18/2016 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS		-	* :	2	a	Analyst	LGT
Chloride	59	1.5		mg/Kg	1	2/24/2016 10:02:46 PM	23934
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	5				Analyst	KJH
Diesel Range Organics (DRO)	300	95		mg/Kg	10	2/23/2016 8:28:27 PM	23859
Surr: DNOP	0	70-130	S	%Rec	10	2/23/2016 8:28:27 PM	23859
EPA METHOD 8015D: GASOLINE RANG	GE					Analyst	NSB
Gasoline Range Organics (GRO)	19	4.7		mg/Kg	1	2/24/2016 3:13:49 AM	23867
Surr: BFB	275	66.2-112	S	%Rec	1	2/24/2016 3:13:49 AM	23867
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.047		mg/Kg	1	2/24/2016 3:13:49 AM	23867
Toluene	ND	0.047		mg/Kg	1	2/24/2016 3:13:49 AM	23867
Ethylbenzene	ND	0.047		mg/Kg	1	2/24/2016 3:13:49 AM	23867
Xylenes, Total	0.14	0.095		mg/Kg	1	2/24/2016 3:13:49 AM	23867
Surr: 4-Bromofluorobenzene	129	80-120	S	%Rec	1	2/24/2016 3:13:49 AM	23867

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 1 of 5
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

WO#:

1602807 29-Feb-16

Client: Project:	Rule F CoP E	Engineering LL 2dgar Federal #2	C 2	N						× ×	2 2
Sample ID	MB-23934	SampTy	pe: ME	BLK	Test	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 23	934	R	RunNo: 3	2385				
Prep Date:	2/24/2016	Analysis Da	te: 2/	24/2016	S	SeqNo: 9	90234	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	e 	ND	1.5								
Sample ID	LCS-23934	SampTy	pe: LC	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	ID: 23	934	R	RunNo: 3	2385				
Prep Date:	2/24/2016	Analysis Da	te: 2/	24/2016	S	SeqNo: 9	90235	Units: mg/k	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 2 of 5

Fage 2 01.

9.1

10.00

90.6

70

130

Page 3 of 5

Qualifiers:	
-------------	--

Surr: DNOP

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL **Reporting Detection Limit**
- W Sample container temperature is out of limit as specified

Client:	Rule I	Engineering LLC					
Project:	COPE						
Sample ID	LCS-23859	SampType: LCS	Te	stCode: EPA Method	8015M/D: Diesel Ra	nge Organics	
Client ID:	LCSS	Batch ID: 23859		RunNo: 32327			
Prep Date:	2/22/2016	Analysis Date: 2/23/201	6	SeqNo: 988166	Units: mg/Kg		
Analyte		Result PQL SPK	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Diesel Range	Organics (DRO)	43 10 5	0.00 0	86.5 65.8	136		
Surr: DNOP	и А.У. — Маллина	4.8 5	.000	95.8 70	130	a a a	
Sample ID	LCS-23860	SampType: LCS	Te	stCode: EPA Method	8015M/D: Diesel Ra	nge Organics	
Client ID:	LCSS	Batch ID: 23860		RunNo: 32327			
Prep Date:	2/22/2016	Analysis Date: 2/23/201	6	SeqNo: 988167	Units: %Rec		
Analyte		Result PQL SPK	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Surr: DNOP		5.0 5	.000	99.1 70	130		
Sample ID	MB-23859	SampType: MBLK	Те	stCode: EPA Method	8015M/D: Diesel Ra	nge Organics	
Client ID:	PBS	Batch ID: 23859		RunNo: 32327			
Prep Date:	2/22/2016	Analysis Date: 2/23/201	6	SeqNo: 988168	Units: mg/Kg		
Analyte		Result PQL SPK	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual
Diesel Range	Organics (DRO)	ND 10			-	5	
Surr: DNOP		8.7 1	0.00	87.0 70	130	Pa	
Sample ID	MB-23860	SampType: MBLK	Te	stCode: EPA Method	8015M/D: Diesel Ra	nge Organics	
Client ID:	PBS	Batch ID: 23860		RunNo: 32327			
Prep Date:	2/22/2016	Analysis Date: 2/23/201	6	SeqNo: 988169	Units: %Rec		
Analyte		Result PQL SPK	alue SPK Ref Val	%REC LowLimit	HighLimit %RP	D RPDLimit	Qual

1602807 29-Feb-16

WO#:

29-Feb-16

Client:	Rule Engi	ineering LL	.C								
Project:	CoP Edga	ar Federal #	2						4		
Sample ID	MB-23867	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasoli	ine Rang	e	
Client ID:	PBS	Batch	ID: 23	867	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ate: 2/	23/2016	5	SeqNo: 9	88918	Units: mg/Kg	1		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Surr: BFB	Organics (GRO)	ND 920	5.0	1000		91.8	66.2	112			
Sample ID	LCS-23867	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	LCSS	Batch	ID: 23	867	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ate: 2/	23/2016	5	SeqNo: 9	88919	Units: mg/Kg	1		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sasoline Range	Organics (GRO)	26	5.0	25.00	0	105	79.6	122			£.,
Surr: BFB		990		1000	8 3 8 8 8	99.2	66.2	112			
Sample ID	1602807-001AMS	SampTy	pe: MS	3	Tes	tCode: E	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	BGT-1	Batch	ID: 23	867	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ate: 2/	23/2016	5	SeqNo: 9	88922	Units: mg/Kg	1		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	55	4.7	23.72	19.25	150	59.3	143			S
Surr: BFB		3100	and a	948.8	4 2	331	66.2	112			S
Sample ID	1602807-001AMS	D SampTy	pe: MS	SD	Tes	tCode: E	PA Method	8015D: Gasol	ine Rang	e	
Client ID:	BGT-1	Batch	ID: 23	867	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ate: 2	23/2016	5	SeqNo: 9	88923	Units: mg/Kg	3		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	e Organics (GRO)	48	4.7	23.74	19.25	123	59.3	143	12.6	20	
Surr: BFB	4	2700		949.7		287	66.2	112	0	0	S
Sample ID	MB-23866	SampTy	/pe: MI	BLK	Tes	tCode: E	PA Method	8015D: Gasol	ine Rang	le	
Client ID:	PBS	Batch	ID: 23	866	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ate: 2	23/2016		SeqNo: 9	88952	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		950		1000	1.8	95.4	66.2	112	1) 10	 19.20 B	
Sample ID	LCS-23866	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8015D: Gasol	ine Rang	le	
oumpie ib		Batch	ID: 23	866	F	RunNo: 3	2332				
Client ID:	LCSS	Daton									
Client ID: Prep Date:	LCSS 2/22/2016	Analysis Da	ate: 2	/23/2016	5	SeqNo: 9	88963	Units: %Rec			
Client ID: Prep Date: Analyte	LCSS 2/22/2016	Analysis Da Result	PQL	/23/2016 SPK value	SPK Ref Val	SeqNo: 9 %REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- J Analyte detected below quantitation limits

Page 4 of 5

P Sample pH Not In Range

В

E

- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Client:	Rule Er	ngineering LL	C								
Project:	CoP Ed	gar Federal #	2								
Sample ID	MB-23867	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID:	PBS	Batch	D 23	867	F	unNo: 3	2332				
Dient ID.	-00	Analysia Da	10. 20	007			00014		_		
Prep Date:	2/22/2016	Analysis Da	te: 2/	23/2016	2	sequo: 9	89011	Units: mg/Kg	9		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	1.1		1.000	а — а 19	110	80	120	а "х	2 ⁹⁶⁸ 6	
Sample ID	LCS-23867	SampTy	pe: LC	S	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batch	ID: 23	867	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ite: 2/	23/2016	s	SeqNo: 9	89012	Units: mg/Kg	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.050	1.000	0	106	80	120			
Toluene		1.1	0.050	1.000	0	112	80	120			
Ethylbenzene		1.1	0.050	1.000	0	111	80	120			
Xylenes, Total		3.4	0.10	3.000	0	112	80	120			
Surr: 4-Brom	ofluorobenzene	1.2		1.000		120	80	120			S
Sample ID	MB-23866	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8021B: Volati	les		
Client ID:	PBS	Batch	ID: 23	866	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ite: 2/	23/2016	S	SeqNo: 9	89021	Units: %Rec	6.1		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.1		1.000		113	80	120		8 8 10	· · · · ·
Sample ID	LCS-23866	SampTy	pe: LC	s	Tes	tCode: E	PA Method	8021B: Volati	les		3 A 5
Client ID:	LCSS	Batch	ID: 23	866	F	RunNo: 3	2332				
Prep Date:	2/22/2016	Analysis Da	ite: 2/	23/2016	5	SeqNo: 9	89022	Units: %Rec			
Analyte	8	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	nofluorobenzene	1.1		1.000		115	80	120		1	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 5 of 5

29-Feb-16

WO#: 1602807

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental A Albu TEL: 505-345-3975 I Website: www.hal	eck List			
Client Name: RULE ENGINEERING LL	Work Order Number:	1602807		RcptNo:	1
Received by/date:	12/18/16				
Logged By: Lindsay Mangin	2/18/2016 7:00:00 AM		Andythigs		
Completed By: Lindsay Mangin	2/19/2016 9:34:21 AM		Andyther		
Reviewed By:	oztaztus				
Chain of Custody					
1. Custody seals intact on sample bottles?		Yes 🗆	No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes 💌	No 🗌	Not Present	
3. How was the sample delivered?		Courier			
Login					
4. Was an attempt made to cool the samples?		Yes 🛃	No 🗌		
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🛃	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes 🛃	No 🗋		
7. Sufficient sample volume for indicated test(s	3)?	Yes 🛃	No 🗆		
8. Are samples (except VOA and ONG) proper	ly preserved?	Yes 🛃	No 🗌	_	
9. Was preservative added to bottles?		Yes	No 🛃	NAL	
10.VOA vials have zero headspace?		Yes	No 🗔	No VOA Vials 🛃	
11. Were any sample containers received broke	en?	Yes	No 🛃	# of preserved bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🛃	No 🗆	for pH: (<2 c	r >12 unless noted)
13. Are matrices correctly identified on Chain of	Custody?	Yes 🛃	No 🗌	Adjusted?	
14. Is it clear what analyses were requested?		Yes 🛃	No Li		
15.Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🖻	No	Checked by:	• • • • • • • • • • • • • • • • • • • •
Special Handling (if applicable)					
16. Was client notified of all discrepancies with	this order?	Yes	No 🗆	NA 🜌	
Person Notified:	Date:	ancier terreter anereede 1500			
By Whom:	Via:	eMail [Phone Fax	In Person	
Regarding:					i ang a
Client Instructions:		·· · ··· ·			
17. Additional remarks:					
18. <u>Cooler Information</u> Cooler No Temp °C Condition S	eal Intact Seal No	Seal Date	Signed By	na La fuel de la fuel La fuel de la fuel	
1 1.3 Good Ye	8				

ient:	hule 1	Engine	ring LLC	Standard Rush Project Name:						H A	AL NA		EN (S]	VI S I		BO	1EN RAT	TAL OR	Y
ailing	Address	SO1 A	mout Dr. Suite 205	Cop Edgar Federal #2				49	01 Ha	v awkir	nww. NS NE	.nalie E - J	nviro Albuq	uerqu	ue, N	om IM 87	'109		
	mingt	in, No	N 67401	Project #:				Te	el. 50	5-34	5-397	75 An	Fax alysi	505 s Red	-345 jues	-410 t	7		
NAC F	Fax#: h Package: dard	woodse	Level 4 (Full Validation)	Project Manager:			(8021)	Gas only)	0/00000			(SMI	himaid .	PCB's					
	tation AP	D Othe	r	Sampler: HL	athr Wood	//)ustin Valde	SAND)+-R	E + TPH (GRO / DR	418.1)	1504.1)	or 8270 SI	NO. NO. F	les / 8082		(OA)			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + WOUB	BTEX + MTB	TPH 8015B (TPH (Method	EDB (Method	PAH's (8310	Anions (F/CI	8081 Pesticic	8260B (VOA)	8270 (Semi-V			
1/10	0945	Soil	BGT-1	(1) Yoz Glass	Cold	-201	×		Х				*						
			NESTW																
								•											
ð:	Time:	Relinquishe	ad by:	Received by:		Date Time	Ren	narks	5.7				<u> </u>		21. 11				
	1450 Time: 1850/	Heat Relinquishe	the M. War	Received by	i fikete	2/17/14 1450 Date Time	Aci Aci	5. 10 HV:44 27 10	381 381	10 110	Dill 3 CIA	TO	(Cen (acel Xden	n:11 id.by	hps b: L	isa H	unter	



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

July 25, 2016

Heather Woods Rule Engineering LLC 501 Airport Dr., Ste 205 Farmington, NM 87401 TEL: (505) 325-1055 FAX

RE: Edgar Fed 2

OrderNo.: 1607860

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/19/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Second States

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Lab Order 1607860

Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT:	Rule Engineering LLC	Client Sample ID: SC-1										
Project:	Edgar Fed 2	Collection Date: 7/18/2016 2:30:00 PM										
Lab ID:	1607860-001	Matrix: SOIL Received Date: 7/19/2016 8:45:00 AM										
Analyses		Result	PQL	Qual	Units	DF Date Analyzed	Batch					
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANIC	s	_	8	Analyst:	том					

Diesel Range Organics (DRO)	240	96		mg/Kg	10	7/20/2016 9:42:05 AM	26499
Surr: DNOP	0	70-130	S	%Rec	10	7/20/2016 9:42:05 AM	26499
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	NSB
Gasoline Range Organics (GRO)	29	5.0		mg/Kg	1	7/20/2016 1:30:49 PM	26468
Surr: BFB	347	80-120	S	%Rec	1	7/20/2016 1:30:49 PM	26468
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	7/20/2016 1:30:49 PM	26468
Toluene	ND	0.050		mg/Kg	1	7/20/2016 1:30:49 PM	26468
Ethylbenzene	0.055	0.050		mg/Kg	1	7/20/2016 1:30:49 PM	26468
Xylenes, Total	0.12	0.10		mg/Kg	1	7/20/2016 1:30:49 PM	26468
Surr: 4-Bromofluorobenzene	111	80-120		%Rec	1	7/20/2016 1:30:49 PM	26468

Qualifiers:	*	Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank	
	D	Sample Diluted Due to Matrix		Value above quantitation range	
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 1 of	
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	
	R RPD outside accepted recovery limitsS % Recovery outside of range due to dilution or matrix		RL	Reporting Detection Limit	
			W	Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1607860 Date Reported: 7/25/2016

Batch

Analyses		Result	PQL	Qual Units	DF Date Analyzed
Lab ID:	1607860-002	Matrix:	SOIL	Received	Date: 7/19/2016 8:45:00 AM
Project:	Edgar Fed 2			Collection	Date: 7/18/2016 2:40:00 PM
CLIENT:	Rule Engineering LLC			Client Samp	le ID: SC-3

EPA METHOD 8015M/D: DIESEL RANGE	a a		Analyst:	том			
Diesel Range Organics (DRO)	650	100		mg/Kg	10	7/21/2016 4:32:12 PM	26500
Surr: DNOP	0	70-130	S	%Rec	10	7/21/2016 4:32:12 PM	26500
EPA METHOD 8015D: GASOLINE RANG	E					Analyst:	NSB
Gasoline Range Organics (GRO)	63	4.9		mg/Kg	1	7/20/2016 8:58:20 PM	26468
Surr: BFB	631	80-120	S	%Rec	1	7/20/2016 8:58:20 PM	26468
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.025		mg/Kg	1	7/20/2016 8:58:20 PM	26468
Toluene	ND	0.049		mg/Kg	1	7/20/2016 8:58:20 PM	26468
Ethylbenzene	0.15	0.049		mg/Kg	1	7/20/2016 8:58:20 PM	26468
Xylenes, Total	0.93	0.098		mg/Kg	1	7/20/2016 8:58:20 PM	26468
Surr: 4-Bromofluorobenzene	127	80-120	S	%Rec	1	7/20/2016 8:58:20 PM	26468

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	

* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Sample pH Not In Range P
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified W

Lab Order 1607860

Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Rule Engineering LLC
 Client Sample ID: SC-4

 Project: Edgar Fed 2
 Collection Date: 7/18/2016 2:45:00 PM

 Lab ID: 1607860-003
 Matrix: SOIL
 Received Date: 7/19/2016 8:45:00 AM

 Analyses
 Result
 PQL
 Qual
 Units
 DF
 Date Analyzed
 Batch

-											
	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: T										
	Diesel Range Organics (DRO)	20	9.8	mg/Kg	1	7/21/2016 4:53:57 PM	26500				
	Surr: DNOP	108	70-130	%Rec	1	7/21/2016 4:53:57 PM	26500				
	EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB				
	Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/20/2016 9:45:14 PM	26468				
	Surr: BFB	102	80-120	%Rec	1	7/20/2016 9:45:14 PM	26468				
	EPA METHOD 8021B: VOLATILES					Analyst:	NSB				
	Benzene	ND	0.025	mg/Kg	1	7/20/2016 9:45:14 PM	26468				
	Toluene	ND	0.050	mg/Kg	1	7/20/2016 9:45:14 PM	26468				
	Ethylbenzene	ND	0.050	mg/Kg	1	7/20/2016 9:45:14 PM	26468				
	Xylenes, Total	ND	0.099	mg/Kg	1	7/20/2016 9:45:14 PM	26468				
	Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	7/20/2016 9:45:14 PM	26468				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix		Value above quantitation range
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 3 of 9
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R RPD outside accepted recovery limitsS % Recovery outside of range due to dilution or matrix		RL	Reporting Detection Limit
			W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Lab Order 1607860 Date Reported: 7/25/2016

EPA METHOD 8015M/D: DIESEL RANGE ORGANICS			S		2	Analyst	TOM		
Analyses	·	Result	PQL	Qual	Units	DF Date Analyzed	Batch		
Lab ID:	1607860-004	Matrix:	SOIL		Received	Date: 7/19/2016 8:45:00 AM			
Project:	Edgar Fed 2				Collection	Date: 7/18/2016 2:50:00 PM			
CLIENT:	Rule Engineering LLC	Client Sample ID: SC-5							

Diesel Range Organics (DRO)	22	9.2	mg/Kg	1	7/21/2016 5:16:10 PM	26500
Surr: DNOP	110	70-130	%Rec	1	7/21/2016 5:16:10 PM	26500
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/20/2016 10:08:43 PM	26468
Surr: BFB	108	80-120	%Rec	1	7/20/2016 10:08:43 PM	26468
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.023	mg/Kg	1	7/20/2016 10:08:43 PM	26468
Toluene	ND	0.046	mg/Kg	1	7/20/2016 10:08:43 PM	26468
Ethylbenzene	ND	0.046	mg/Kg	1	7/20/2016 10:08:43 PM	26468
Xylenes, Total	ND	0.092	mg/Kg	1	7/20/2016 10:08:43 PM	26468
Surr: 4-Bromofluorobenzene	93.6	80-120	%Rec	1	7/20/2016 10:08:43 PM	26468

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 9
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Lab Order 1607860

Date Reported: 7/25/2016

Hall Environmental Analysis Laboratory, Inc.

 CLIENT: Rule Engineering LLC
 Client Sample ID: SC-6

 Project: Edgar Fed 2
 Collection Date: 7/18/2016 2:55:00 PM

 Lab ID: 1607860-005
 Matrix: SOIL
 Received Date: 7/19/2016 8:45:00 AM

 Analyses
 Result
 PQL Qual Units
 DF Date Analyzed
 Batch

_						I LITER MALE AND ADDRESS IN A DREAM AND AND A DREAM AND AND A DREAM AND A DREAM AND A DREAM AND					
	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analys										
	Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	7/21/2016 5:37:45 PM	26500				
	Surr: DNOP	115	70-130	%Rec	1	7/21/2016 5:37:45 PM	26500				
	EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB				
	Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/20/2016 10:32:17 PM	26468				
	Surr: BFB	99.2	80-120	%Rec	1	7/20/2016 10:32:17 PM	26468				
	EPA METHOD 8021B: VOLATILES					Analyst:	NSB				
	Benzene	ND	0.023	mg/Kg	1	7/20/2016 10:32:17 PM	26468				
	Toluene	ND	0.047	mg/Kg	1	7/20/2016 10:32:17 PM	26468				
	Ethylbenzene	ND	0.047	mg/Kg	1	7/20/2016 10:32:17 PM	26468				
	Xylenes, Total	ND	0.094	mg/Kg	1	7/20/2016 10:32:17 PM	26468				
	Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	7/20/2016 10:32:17 PM	26468				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix		Value above quantitation range
	H Holding times for preparation or analysis exceeded		J	Analyte detected below quantitation limits Page 5 of 9
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	R PD outside accepted recovery limitsS % Recovery outside of range due to dilution or matrix		RL	Reporting Detection Limit
			w	Sample container temperature is out of limit as specified

Analytical Report Lab Order 1607860

Date Reported: 7/25/2016

Analyst: NSB

Analyst: NSB

26468

7/20/2016 10:55:42 PM 26468

7/20/2016 10:55:42 PM

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: 4-Bromofluorobenzene

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

CLIENT:	Rule Engineering LLC	Client Sample ID: SC-2							
Project:	Edgar Fed 2			Collection	Date: 7/1	8/2016 4:30:00 PM			
Lab ID:	1607860-006	Matrix:	SOIL	Received	Date: 7/1	9/2016 8:45:00 AM			
Analyses		Result	PQL Qua	l Units	DF	Date Analyzed	Batch		
EPA MET	HOD 8015M/D: DIESEL RAM	IGE ORGANIC	s			Analys	t: TOM		
Diesel Ra	ange Organics (DRO)	99	9.7	mg/Kg	1	7/21/2016 5:59:36 PM	26500		
Surr: D	ONOP	117	70-130	%Rec	1	7/21/2016 5:59:36 PM	26500		

4.9

S

80-120

0.024

0.049

0.049

0.097

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

1

1

ND

135

ND

ND

ND

ND

101

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank	
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page	e 6 of 9
Qualifiers: * D H ND R S	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	,00019
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as sp	pecified

WO#:	1607860

25-Jul-16

Client: Rule H	Engineering LLC		
Project: Edgar	Fed 2		
Sample ID LCS-26499	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 26499	RunNo: 35794	
Prep Date: 7/20/2016	Analysis Date: 7/20/2016	SeqNo: 1108852 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	49 10 50.00	0 97.0 62.6 124	
Surr: DNOP	4.9 5.000	97.7 70 130	
Sample ID MB-26499	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	ž
Client ID: PBS	Batch ID: 26499	RunNo: 35794	
Prep Date: 7/20/2016	Analysis Date: 7/20/2016	SeqNo: 1108854 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10		
Surr: DNOP	10 10.00	102 70 130	
Sample ID MB-26465	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 26465	RunNo: 35794	
Prep Date: 7/19/2016	Analysis Date: 7/20/2016	SeqNo: 1110143 Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Surr: DNOP	10 10.00	101 70 130	
Sample ID LCS-26500	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 26500	RunNo: 35868	
Prep Date: 7/20/2016	Analysis Date: 7/21/2016	SeqNo: 1111810 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	49 10 50.00	0 98.1 62.6 124	
Surr: DNOP	5.3 5.000	106 70 130	
Sample ID MB-26500	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 26500	RunNo: 35868	
Prep Date: 7/20/2016	Analysis Date: 7/21/2016	SeqNo: 1111811 Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10		
Surr: DNOP	9.5 10.00	94.8 70 130	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Ρ Sample pH Not In Range
- **Reporting Detection Limit** RL
- Sample container temperature is out of limit as specified W

Page 7 of 9

Client: Rule En Project: Edgar I	Fed 2								N
Sample ID MB-26468	SampType: MI	BLK	Test	Code: EP	A Method	8015D: Gaso	line Rang	e	e
Client ID: PBS	Batch ID: 26	468	R	unNo: 35	833				
Prep Date: 7/19/2016	Analysis Date: 7/	/20/2016	S	eqNo: 11	09484	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1000	1000		102	80	120		2	
Sample ID LCS-26468	SampType: LC	s	Test	Code: EP	A Method	8015D: Gaso	line Rang	e	8 6 _ 6
Client ID: LCSS	Batch ID: 26	468	R	unNo: 35	833				
Prep Date: 7/19/2016	Analysis Date: 7	/20/2016	S	eqNo: 11	09485	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 5.0	25.00	0	106	80	120			
Surr: BFB	1100	1000		115	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: 1607860

25-Jul-16

Client: Rule I Project: Edgar	Engineering L Fed 2	LC									
Sample ID MB-26468	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles			
Client ID: PBS	Batc	h ID: 26	468	F	RunNo: 3	5833					
Prep Date: 7/19/2016	Analysis [Date: 7/	20/2016	S	SeqNo: 1	109545	Units: mg/H	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120				
Sample ID LCS-26468	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles			
Client ID: LCSS	Batc	h ID: 26	468	RunNo: 35833							
Prep Date: 7/19/2016	Analysis [Date: 7/	20/2016	5	SeqNo: 1	109546	Units: mg/h	٢g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.99	0.025	1.000	0	98.7	75.3	123	-6			
Toluene	0.97	0.050	1.000	0	96.6	80	124				
Ethylbenzene	0.99	0.050	1.000	0	99.1	82.8	121				
Xylenes, Total	2.9	0.10	3.000	0	96.9	83.9	122				
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 9 of 9

WO#: 1607860

25-Jul-16

	HALL
N	
	ANALYSIS
	anon arony
	LABORATORY
1	

itait Environmental Analysis Laboratory 4901 Hawkins NE Albuguerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Number	er. 1607860		RcptNo:	
Received by/date: Solution Completed By: Lindsay Mangin 7/19/2016 8:45:00 Al	M	J-yma		
Reviewed By: 0 7/19/16		000		8
Chain of Custody	2			
1. Custody seals intact on sample bottles?	Yes	No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	
3. How was the sample delivered?	Courier			
Log In				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	NA 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C.	Yes 🗸	No 🗆	NA	
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆		
8, Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to bottles?	Yes 🗆	No 🔽	NA 🗌	
10. VOA vials have zero headspace?	Yes	No 🗀	No VOA Vials 🗹	
11. Were any sample containers received broken?	Yes 🗌	No 🗹	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14, Is it clear what analyses were requested?	Yes 🗹	No 🗌	1. V. 1. 2. V. 2. V.	
 Were all holding times able to be met? (If no, notify customer for authorization.) 	Yes V	No	Checked by:	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No.	NA 🔽	
Person Notified: Date By Whom: Via: Regarding:	eMail 🗋	Phone 🗌 Fax	In Person	
Client Instructions:		and the West		

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Yes		3	

Time: Re	10 -				1.1	5	R	F	-	6	16	ate	B	E a	Stan	ailo	ne	0	Buill		à	0
77	S:36					1630	1455	14:50	Sh:hl	14:40	14:30	Time	(Type)	AP	Package: Idard	r Fax#:	# \$25	Į.	Address		Aute	hain
	Refinaus	A				<				-	Sei)	Matrix		D Oth		valder	793	- minut	<u>8</u>	1	Envine	of-C
t-Walke	the first the first					50-2	52-6	51-5	5c-4	56= 3	52-1	Sample Request ID			Level 4 (Full Validation)	Conversionering . Co	98486	IONLY WIN 87401	Airmont Dr. Swith		ering ULL	ustody Record
Received by:	Received by:						*				the aless	Container Type and #	Sample Temp	Sampler: Jus On Ice:	Hentmer	Project Mana		Project #:	E Edwar F	Project Name	X Standard	I um-Around
4	had to				*						Geld	Preservative Type	perature: ψ .	tin latte	Winds	ger:	10 100 100		2#12		C Rush	lime;
The lie Time	Thehr Ina					1000	20x	-004	-top	-002	100-	HEAL NO.	and the second second	L No								
line al	Ren					+	+	*	×	*	*	BTEX +M	BE	+ SME	1 Ee (802	1)			1.			
	narks				- A	1						BTEX + M	TBE	+ TPH	(Gas o	only)		Te	490			
			_			1	+	+	+	+	1	TPH 8015E	3 (G	RO/D	RO /	(. 50	H			
			_		1		-	-	-		-	TPH (Meth	od 4	18.1)	1. 1. 1.	-		-345	Iwkin		>:	E
			-	+	-	-	-	-	-		-	EDB (Meth	od t	504.1)	01100			-397	SNE	NWW.	S	2
			-	+	+			-			-	PAHS (83	IU DI	8270	SIMS)		Ana	U		haller	5!	
	100	\vdash	-	+	-			-		100		Anions (F.		0. NO	PO.S	0.)	alysi	Fax	Albud	Niro	ŝ	
							10				-	8081 Pesti	cide	s / 808	2 PCB	~4/ Š	s Re	50	uerq	nme	S,	5
	Sec.	3										8260B (VC				-	que	5-34	ue, l	ntal	5	
									-			8270 (Sem	i-VC	(AC			st	5410	MM 8	mo	B	Z
	1996		1										Harris			100		70	7109		R	5
																			0		3	z
			-																		0	
	ar I																				2	