District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources			OGRID	7377			
Contact Name James Kennedy Co			Contact	Telephone (432) 258-4346			
Contact email James_Kennedy@eogresources.com In			Incident	t # (assigned by OCD) nOY1718454674			
Contact mail 79706	ling address	5509 Champions	Drive Midland,	TX			
			Location	n of R	Release S	Source	
Latitude 32.2551° Longitude -103.3752° (NAD 83 in decimal degrees to 5 decimal places)							
Site Name B	eowulf 33 S	tate Com 601H			Site Type	Site Type Production Facility	
Date Release	Discovered	06/28/17			API# (if a	applicable) 30-025-43431	
Unit Letter	Section	Township	Range		Coı	punty	
N	33	23S	25E	Lea			
Nature and Volume of Release Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)							
Crude Oi		Volume Releas		<u> </u>	vious or speed	Volume Recovered (bbls)	
Produced	Water	Volume Releas	ed (bbls) 130			Volume Recovered (bbls) 0	
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		e in the	⊠ Yes □ No			
Condensate Volume Released (bbls)			Volume Recovered (bbls)				
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units))	Volume/Weight Recovered (provide units)				
recovered. Lea	ase operator d	iscovered the spill a	and notified EOG e	nvironm	ental group.	le of a production well pad 130bbls released and 0bbls were The soils that impacted were removed; material was transported al to surface grade.	

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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release? More than 25 bbls.
19.15.29.7(A) NMAC?	
⊠ Yes □ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ase has been stopped.
☐ The impacted area has	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach a	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the infor	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are public health or the environn failed to adequately investigated	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atteand remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:James K	<u>Environmental Specialist</u> <u>Environmental Specialist</u>
Signature:	Date:03/01/2022
email: <u>James Kenn</u>	redy@eogresources.com Telephone: (432) 848-9146
OCD Only	
Received by:	Date:

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☐ Field data ☐ Data table of soil contaminant concentration data ☐ Depth to water determination ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ☐ Boring or excavation logs ☐ Photographs including date and GIS information ☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody 		
1		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.		
Printed Name:James F. Kennedy	Title:Env. Specialist	
Signature:	Date:03/01/2022	
email:james_kennedy@eogresources.com	Telephone:432-258-4346	
OCD Only		
Received by:	Date:	

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Application ID

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.	
□ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)		
Deferral Requests Only: Each of the following items must be con-	nfirmed as part of any request for deferral of remediation.	
	roduction equipment where remediation could cause a major facility	
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.	
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of	
Printed Name:	Title:	
Signature:	Date:	
email:	Telephone:	
OCD Only		
Received by:	Date:	
Approved	Approval	
Signature:	<u>Date:</u>	

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A 1' 4' ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following i	tems must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Signature:	
email:james_kennedy@eogresources.com	Telephone:432-258-4346
OCD Only Received by:	Date: 03/03/2022
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Ashley Maxwell	Date: 9/19/2022
Closure Approved by: Printed Name: Ashley Maxwell	Title: Environmental Specialist

ecewed by OCD	3/3/2022 10·17·10 A		TE INFOR	/ A TION			Page 7 of 1				
SITE INFORMATION											
	Report Type: Closure Report 1RP-4745										
General Site Inf	ormation:										
Site:			ate Com 601H								
Company:		EOG Resourc									
Section, Towns	<u> </u>	Unit N	Sec. 33	T 23S	R 35E						
Lease Number:		API No. 30-02	5-435310000								
County:		Lea County	00.05540.11			400.075	00.144				
GPS:		NIM Otata I am	32.2551° N			103.375	2º W				
Surface Owner:		NM State Land									
Mineral Owner:		NM State Land		and Huny 10	Hood Most	atil Dolowers Pa	sin Road, Turn Rt.,				
Directions:											
		arrive on locatio	and go approx. 14M and turn Rt into lease road, Go South approx. 5m and then go East .25M and								
Release Data:											
Date Released:		6/28/2017									
Type Release:		Produced Water									
Source of Conta	mination:	Water Truck									
Fluid Released:		130 bbls									
Fluids Recovere	d:	0bbls									
Official Commu	nication:										
Name:	Jamon Hohensee				Ike Tavare	Z					
Company:	EOG Resources				Tetra Tech	1					
Address:	5509 Champions I	Or			4000 N. Bi	g Spring					
					Ste 401						
City:	Midland Texas, 79	706			Midland, T	exas					
Phone number:	(432) 556-8074				(432) 687-	8110					
Fax:	,										
Email:	the second second	e@eogresources				ez@tetratech.o					

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	275'
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:	0	
Acc	ceptable Soil RRAL (m	ng/kg)
Benze	•	TPH
Derize	IIC I Ulai DI EX	IFN



September 15, 2017

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

Re: Closure Report for the EOG Resources, Beowulf 33 State Com 601H, Unit N, Section 33, Township 23 South, Range 35 East, Lea County, New Mexico. 1RP-4745

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources to assess and remediate a spill that occurred at the Beowulf 33 State Com 601H, Unit N, Section 33, Township 23 South, Range 35 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.2551°, W 103.3752°. The site location is shown on Figures 1 and 2.

Background

On June 28, 2016, a produced water release occurred at the site due to an illegal dump located behind the facility in the adjacent pasture. Approximately one hundred and thirty (130) barrels of produced water was released and none of the fluids were recovered. The release occurred in the pasture and migrated onto a proposed pipeline right-of-way area. The spill impacted an area measuring approximately 180' x 40', 190' x 5' and 50' x 50'. The initial C-141 form is included in Appendix A. The release areas are shown on Figure 3.

Groundwater

No water wells were listed within Section 33 on the New Mexico Office of the State Engineer database. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is around 275' below surface. The groundwater data is shown in Appendix B.

Tetra Tech



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment

Soil Sampling

On July 10, 2017, Tetra Tech personnel were onsite to inspect and sample the spill area. A total of seven (7) sample trenches (T-1 through T-7) were installed to total depths ranging from 1.0' to 14.0' below surface using a backhoe. The samples were field screened for salinity using an ExStick II EC400 meter. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The trench locations are shown on Figure 3.

Pipeline Right-of-Way

During the site inspection, field personnel noted that the release footprint was along a marked proposed pipeline right-of-way for Lucid Energy. Lucid Energy was contacted and stated that the proposed line was scheduled to be installed the following week. Due to timing of the installation, the removal of the shallow impacted soil along the right-of-way area was performed on July 11-12, 2017. The excavation and sampling details are summarized in the Remediation Section in the report.

Sample Analysis and Results

Referring to Table 1, none of the collected samples exceeded the RRALs for TPH, benzene or total BTEX.

The chlorides detected showed a shallow impact to the subsurface soils. The areas of trenches (T-1, T-2 and T-3) showed concentrations that declined at 2.0' below surface, with chloride concentrations of 16.4 mg/kg, 6.01 mg/kg and 67.3 mg/kg, respectively. The areas of trenches (T-4, T-5 and T-6) showed a slightly deeper impact to the soils, which declined at a depth of approximately 3'-4' below surface. The area of trench (T-5) showed a chloride spike of 3,010 mg/kg at 8.0' below surface, which then declined at 10.0' to 302 mg/kg. The chloride spike appears to be sloughing of the upper soil that cross-contaminated the deeper sample. Trench (T-7) showed a shallow impact to soil declining to 42.8 mg/kg at 2.0' below surface.



Soil Remediation and Confirmation Sampling

The excavation areas and depths are highlighted (green) in Table 1 and shown on Figure 4. One excavated to the appropriate depths, Tetra Tech collected confirmation samples from the area. The confirmation samples are shown in Table 2. Approximately 775 cubic yards were removed from the area and stockpiled onsite pending disposal. The excavated areas were backfield with clean material to surface grade.

Tetra Tech supervised the initial remediation of the release area along the proposed pipeline right-of-way on July 11 and 12, 2017. These excavated areas encompassed trenches (T-1, T-2, T-3 and T-6). The areas of trenches (T-1, T-2, and T-3) were excavated to a depth of 1.5' below surface area and measured approximately 180' x 40'. The area of trench (T-6) was excavated to a depth of 3.0' and measured an area of approximately 50' x 50'. Once removed to appropriate depths, Tetra Tech collected bottom hole and sidewall samples to confirm the impacted soil was properly removed.

After the installation of the pipeline was completed, Tetra Tech returned to the site on August 28, 2017 to complete the remediation for the areas of trenches (T-4, T-5 and T-7). The areas of trenches (T-4 and T-5) were excavated to depths of 3.0' and the area of trench (T-7) was excavated to 2.0' below surface, measuring approximately 190' x 5'. For additional confirmation, the area of trench (T-5) was re-trenched at a depth of 8.0' to collect an additional sample and to confirm the chloride spike at that depth. Referring to Table 1, the chloride showed a concentration of <4.96 mg/kg, which confirmed the sample was cross-contaminated by the upper soils.

Conclusion and Recommendations

Based on the remediation work performed, EOG Resources requests closure of this spill issue. The final C-141 is shown in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call me at (432) 682-4559.

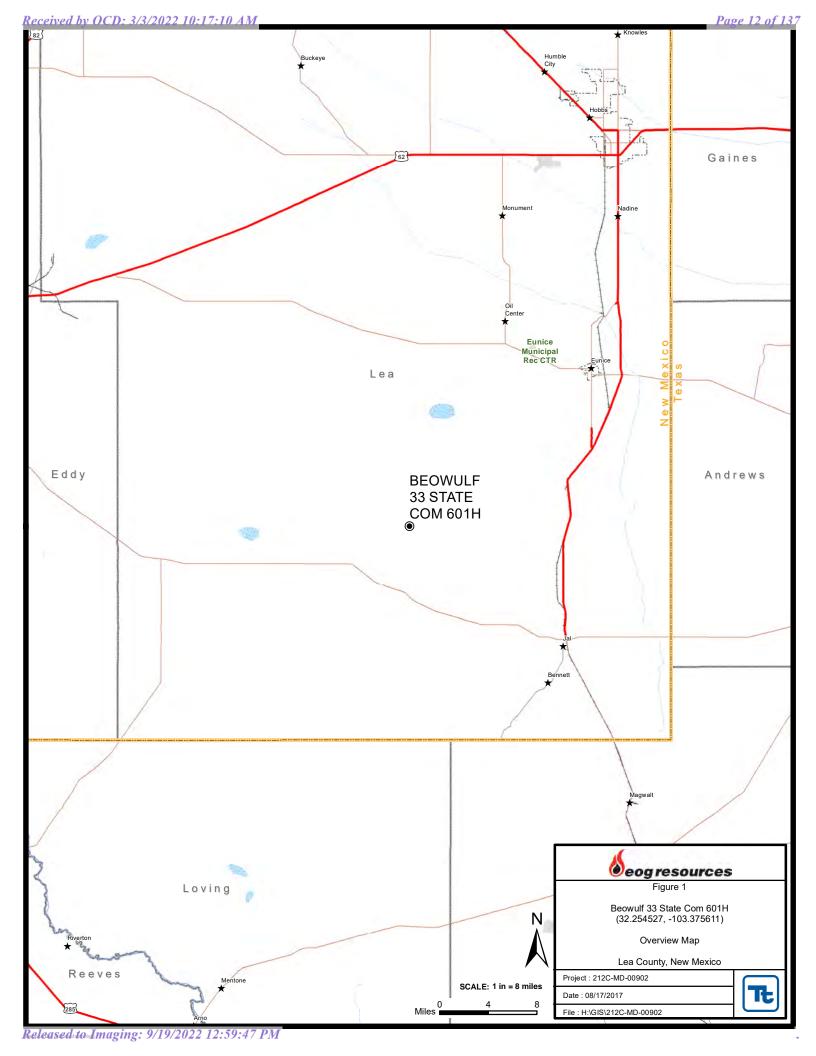
Respectfully submitted, TETRA TECH

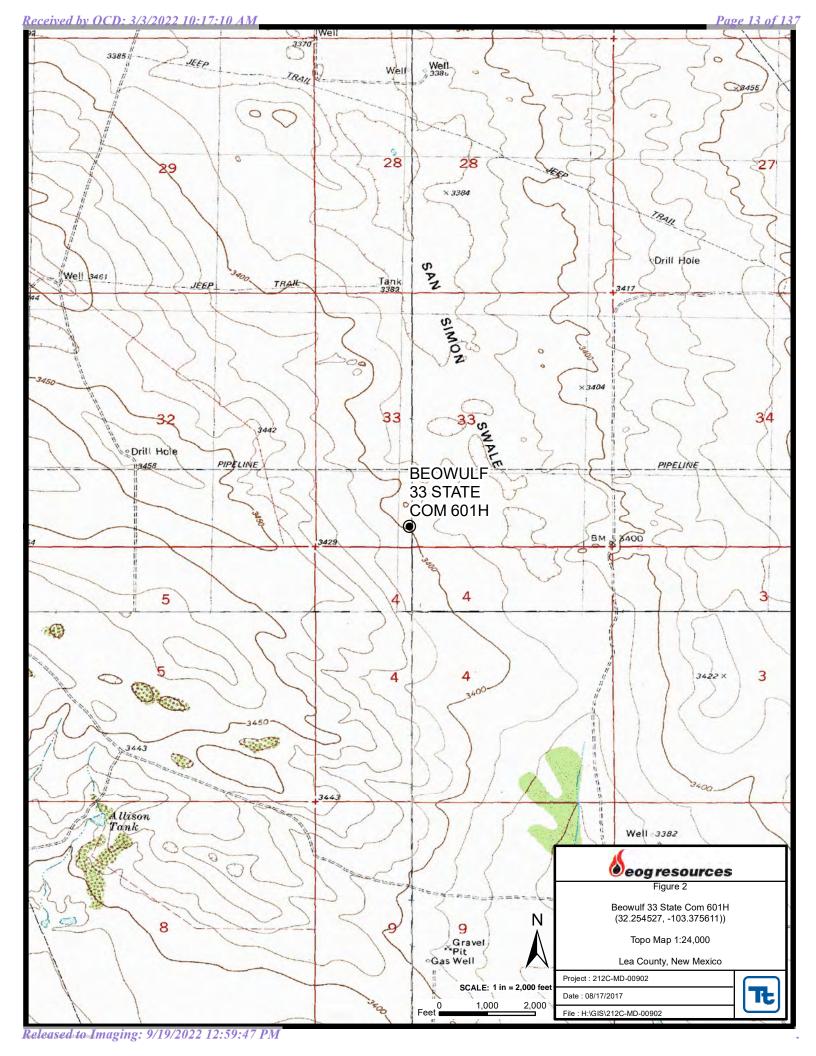
Clair Gonzales, Geologist I

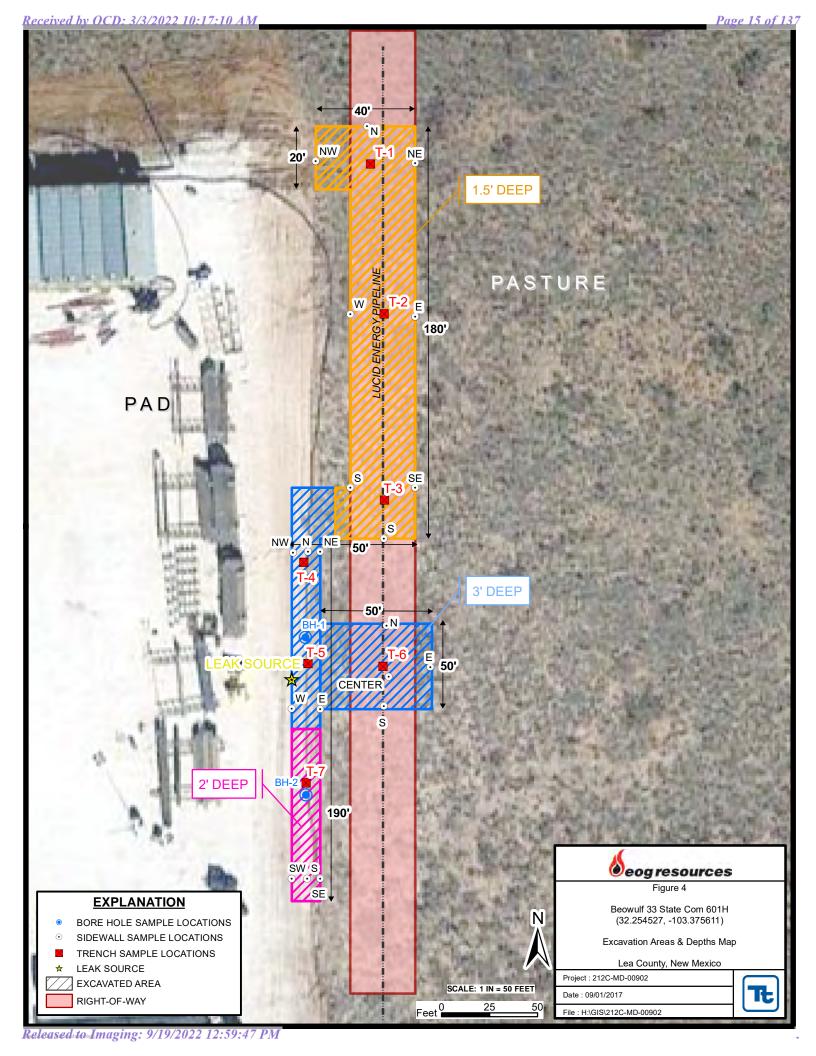
EOG – Jamon Hohensee EOG – Zane Kurtz SLO – Amber Groves Ike Tavarez,

Ike Tavarez, Senior Project Manager, P.G.

Figures







Tables

Table 1
EOG Resources
Beowulf 33 State Commingle 601H
Lea County, New Mexico

Commis ID	Cample Date	Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Trench #1	7/10/2017	0-1		Х	<15.0	21.2	<15.0	21.2	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,540
	"	2	Χ		1	1	-	-	-	-	-	-	-	16.4
	"	4	Χ		1	1	-	-	-	-	-	-	-	17.9
	"	6	Χ		ı	ı	-	-	-	-	-	-	-	18.4
	"	8	Χ		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	107
Trench #2	7/10/2017	0-1		Х	<15.0	<15.0	<15.0	<15.0	<0.00351	<0.00351	<0.00351	<0.00351	<0.00351	781
	"	1		Х	-	-	-	-	-	-	-	-	-	1,150
	"	2	Х		-	-	-	-	-	-	-	-	-	6.01
	"	4	Х		-	-	-	-	-	-	-	-	-	6.13
	"	6	Х		-	-	-	-	-	-	-	-	-	<5.00
	"	8	Х		<14.9	<14.9	<14.9	<14.9	<0.00344	<0.00344	<0.00344	<0.00344	<0.00344	14.3
Trench #3	7/10/2017	0-1		Х	<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	2,600
	"	1		Х	-	-	-	-	-	-	-	-	-	2,750
	"	2	Χ		1	1	-	-	-	-	-	-	-	67.3
	"	4	Χ		ı	ı	-	-	-	-	-	-	-	7.90
	"	6	Χ		ı	ı	-	-	-	-	-	-	-	6.39
	"	8	X		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	11.8
Trench #4	7/10/2017	0-1		Х	<15.0	<15.0	<15.0	<15.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	3,830
	"	1		Х	-	-	-	-	-	-	-	-	-	3,080
	"	2		Х	-	-	-	-	-	-	-	-	-	1,380
	"	4	Х		1	-	-	-	-	-	-	-	-	252
	"	6	Х		ı	-	-	-	-	-	-	-	-	35.9
	"	8	Х		ı	-	-	-	-	-	-	-	-	108
	"	10	Х		<15.0	<15.0	<15.0	<15.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	26.8

212C-MD-00902 Xenco Labs Received by OCD: 3/3/2022 10:17:10 AM

Table 1 EOG Resources Beowulf 33 State Commingle 601H Lea County, New Mexico

Commis ID	Comple Date	Sample	Soil	Status		TPH	(mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
Trench #5	7/10/2017	0-1		Х	<15.0	187	<15.0	187	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	5,030
	"	1		Х	-	-	-	1	-	-	-	-	-	3,370
	"	2		Х	ı	•	-	1	-	-	-	-	-	2,340
	"	4	Х		-	-	-	-	-	-	-	-	-	875
	"	6	Х		-	-	-	-	-	-	-	-	-	399
	"	8	X		-	-	-	-	-	-	-	-	-	3,010
	"	10	Χ		-	-	-	-	-	-	-	-	-	302
	"	12	Χ		-	-	-	-	-	-	-	-	-	568
	"	14	Х		<15.0	<15.0	<15.0	<15.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	98.5
Trench #5	8/28/2017	8	Х		-	-	-	-	-	-	-	-	-	<4.96
Trench #6	7/10/2017	0-1	Х		<14.9	<14.9	<14.9	<14.9	<0.00337	<0.00337	<0.00337	<0.00337	<0.00337	2,030
	"	1	Χ		-	-	-	-	-	-	-	-	-	1,780
	"	2	Х		-	-	-	-	-	-	-	-	-	1,070
	"	4	Х		-	-	-	-	-	-	-	-	-	234
	"	6	Х		-	-	-	-	-	-	-	-	-	7.30
	"	8	Х		-	-	-	-	-	-	-	-	-	9.67
	"	10	Х		<15.0	<15.0	<15.0	<15.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	9.98
Trench #7	7/10/2017	0-1	Х		<15.0	66.0	<15.0	66.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,200
	"	1	Х		-	-	-	-	-	-	-	-	-	1,200
	"	2	Х		-	-	-	-	-	-	-	-	-	42.8
	"	4	Х		-	-	-	-	-	-	-	-	-	10.4
	"	6	Х		-	-	-	-	-	-	-	-	-	6.32
	"	8	Х		<15.0	<15.0	<15.0	<15.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	44.0

(-) Not Analyzed

(EB) Excavation Bottom

Areas Excavated and Removed

212C-MD-00902 Xenco Labs

Sample ID	Sample Date	Sample	EB Sample	Soil	Status	Chloride				
		Depth (ft)	Depth (ft)	In-Situ	Removed	(mg/kg)				
Area T-6					[
Center	7/11/2017	-	3	Х		<4.96				
South Sidewall	7/11/2017	-	-	Χ		13.2				
North Sidewall	7/11/2017	-	-	Χ		5.22				
East Sidewall	7/11/2017	-	-	Χ		14.3				
Areas of T1, T2 and T3	Areas of T1, T2 and T3									
South East Sidewall	7/12/2017	-	-	Χ		56.7				
South West Sidewall	7/12/2017	-	-	Χ		<4.97				
North West Sidewall	7/12/2017	-	-	Χ		12.8				
North East Sidewall	7/12/2017	-	-	Χ		14.6				
East Sidewall	7/12/2017	-	-	Χ		69.0				
West Sidewall	7/12/2017	-	-	Х		6.43				
South Bottomhole	7/12/2017	1.5	1.5	Χ		10.7				
Center Bottomhole	7/12/2017	1.5	1.5	Х		8.29				
North Bottomhole	7/12/2017	1.5	1.5	Χ		251				
Areas of T4, T5 and T7										
North Bottom Hole	8/28/2017	3	3	Χ		22.1				
North West Sidewall	8/28/2017	-	-	Χ		<4.98				
North East Sidewall	8/28/2017	-	-	Χ		<4.98				
Bottom Hole #1	8/28/2017	3	3	Χ		64.9				
Bottom Hole #2	8/28/2017	2	2	Χ		<4.90				
South Bottom Hole	8/28/2017	2	2	Χ		<4.90				
South West Sidewall	8/28/2017	-	-	Х		<4.92				
South East Sidewall	8/28/2017	-	-	Х		62.2				
West Sidewall	8/28/2017	-	-	Х		18.1				
East Sidewall	8/28/2017	-	-	Χ		<4.99				

^(-) Not Analyzed

⁽EB) Excavation Bottom

Photos







View North East, Trench #1



View East, Trench#1







View South, Trench#2



View West, Trench #2







View South, Trench#3



View North, Trench #3







View South West, Trench #4



View South, Trench #4







View North, Trench #5



View West, Trench #5





View East, Pasture Area Trench #6



View East, Pasture Area Trench #6







View North, Trench #7



View South, Trench #7





View North, Excavation Area T1, T2, T3 (1.5')



View South, Excavation Area T1, T2, T3 (1.5')





View East, Excavation Pasture Area T#6 (3')



View South, Re-Trench#5







View South, Excavated Area T-5, T-7



View North, Excavated Area T-7, T-5, T-4

Appendix A

Released to Imaging: 9/19/2022 12:59:47 PM

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., 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 April 3, 2017

pOY1718454979

nOY1718454674

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

OPERATOR	Release Notification	on and Corrective Action						
Address: \$509 Champions Drive, Midland, TX 79706		OPERATOR Initial Report Final Report						
Address: 5509 Champions Drive, Midland, TX 79706 Telephone No. 432-556-8074 Facility Name: Beowulf 33 State Com 601H Facility Type: Production Facility Surface Owner: NM State Lands Mineral Owner: NM State Lands API No. 30025435310000 Location of Release: Section Township Range Feet from the North/South Line Feet from the East/West Line County Latitude 32.255 Longitude -103.3752 NAD83 NATURE OF RELEASE Type of Release: PW Volume of Release: 130bbls Volume Recovered: 0 Source of Release: Water Truck Date and Hour of Occurrence: 6728/17, time unknown 17 YES. To Whom? Was Immediate Notice Given? Yes No Nor Required If YES. To Whom? If YES. To Whom? The Watercourse Reached? Yes No Nor Required Received water was released from a water hauler truck on the side of a production well pad 130bbls released and 0bbls recovered. Lease operator discovered water was released from a water hauler truck on the side of a production well pad 130bbls released and 0bbls recovered. Lease operator discovered water was released from a water hauler truck on the side of a production well pad 130bbls released and 0bbls recovered. Lease operator discovered the spill and contacted the EOG environmental group. Describe Cause of Problem and Remedial Action Taken.* Produced water was released from a water hauler truck on the side of a production well pad 130bbls released and 0bbls recovered. Lease operator discovered the spill and contacted the EOG environmental group. Describe Area Affected and Cleanup Action Taken.* Area is a pipeline ROW just east of the pad. No visible surface waters were impacted. 3 rd party environmental firm will investigate site and take necessary steps properly remediate the affected area to regulations and operators are required to report and/or file certain release notifications and perform corrective actions for release which may endaging public health or the environment. In addition, MOCD marcles are filed to adequately investig	Name of Company: EOG Resources	Contact: Jamon Hohensee						
Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Facility Type: Production Fa								
Location of Release: Name Section Sect		Facility Type: Production Facility						
Intitude 33 Natitude 32.255 Longitude -103.3752 NAD83	Surface Owner: NM State Lands Mineral Owner	r: NM State Lands API No. 30025435310000						
Sas	LOCATIO	ON OF RELEASE						
NATURE OF RELEASE Type of Release: PW Source of Release: Water Truck Date and Hour of Occurrence: 6/28/17, time unknown Graver of Release: Water Truck Date and Hour of Occurrence: 6/28/17, time unknown Graver of Release: Water Truck Date and Hour of Occurrence: 6/28/17, time unknown If YES, To Whom?	Citie Botton	th/South Line Feet from the East/West Line County						
Volume of Release: 190bbs Volume Recovered: 0 Date and Hour of Occurrence: 628/17, time unknown If YES, To Whom?	Latitude32.2551L	Longitude103.3752 NAD83						
Source of Release: Water Truck Was Immediate Notice Given? Yes No Not Required By Whom? Was a Watercourse Reached? Yes No Not Required By Whom? Was a Watercourse was Impacted, Describe Fully.* RECEIVED By Olivia Yu at 3:02 pm, Jul 03, 2017 Describe Cause of Problem and Remedial Action Taken.* Produced water was released from a water hauler truck on the side of a production well pad 130bbls released and 0bbls recovered. Lease operator discovered the spill and contacted the EOG environmental group. Describe Area Affected and Cleanup Action Taken.* Area is a pipeline ROW just east of the pad. No visible surface waters were impacted. 3rd party environmental firm will investigate site and take necessary steps properly remediate the affected area to regulatory standards. Thereby 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 regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger regulations all operators have failed to adequately investigate and remediate contamination that pose a threat to ground waters, surface waters, human health or the environment. In addiction, 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. OIL CONSERVATION DIVISION Approval Date: 7/3/2017 Expiration Date: Conditions of Approval: See attached directive	NATUR							
Was Immediate Notice Given? Yes No Not Required	Type of Release: PW							
Was Immediate Notice Given? Yes No Not Required	Source of Release: Water Truck							
By Whom? Was a Watercourse Reached? If Yes No If a Watercourse was Impacted, Describe Fully.* RECEIVED By Olivia Yu at 3:02 pm, Jul 03, 2017 Describe Cause of Problem and Remedial Action Taken.* Produced water was released from a water hauler truck on the side of a production well pad 130bbls released and 0bbls recovered. Lease operator discovered the spill and contacted the EOG environmental group. Describe Area Affected and Cleanup Action Taken.* Area is a pipeline ROW just east of the pad. No visible surface waters were impacted. 3 rd party environmental firm will investigate site and take necessary steps properly remediate the affected area to regulatory standards. 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Jamon Hohensee E-mail Address: jamon hohensee@eogresources.com Date: 6/30/17 Phone: 432-556-8074	Was I-madiate Nation Given?							
Yes No If YES, Volume Impacting the Watercourse.	Was immediate Notice Given? ☐ Yes ☐ No ☐ Not Require							
Was a Watercourse Reached? Yes No	By Whom?							
Describe Cause of Problem and Remedial Action Taken.* Produced water was released from a water hauler truck on the side of a production well pad 130bbls released and 0bbls recovered. Lease operator discovered the spill and contacted the EOG environmental group. Describe Area Affected and Cleanup Action Taken.* Area is a pipeline ROW just east of the pad. No visible surface waters were impacted. 3rd party environmental firm will investigate site and take necessary steps properly remediate the affected area to regulatory standards. 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. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Jamon Hohensee Title: Environmental Representative Approval Date: Title: Environmental Representative Approval Date: Title: Environmental Representative Approval Date: See attached directive	Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.						
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Signature: Printed Name: Jamon Hohensee Title: Environmental Representative E-mail Address: jamon hohensee@eogresources.com Date: 6/30/17 Phone: 432-556-8074 OIL CONSERVATION DIVISION Approved by Environmental Specialist: 7/3/2017 Expiration Date: Conditions of Approval: see attached directive	or the environment. In addition, NMOCD acceptance of a C-141 report	t does not relieve the operator of responsibility for compliance with any other						
Signature: Printed Name: Jamon Hohensee Approved by Environmental Specialist: Title: Environmental Representative E-mail Address: jamon hohensee@eogresources.com Date: 6/30/17 Phone: 432-556-8074 Conditions of Approval: See attached directive	federal, state, or local laws and/or regulations.							
Printed Name: Jamon Hohensee Title: Environmental Representative E-mail Address: jamon hohensee@eogresources.com Date: 6/30/17 Phone: 432-556-8074 Approved by Environmental Specialist: 7/3/2017 Expiration Date: Conditions of Approval: See attached directive	111	OIL CONSERVATION DIVISION						
Printed Name: Jamon Hohensee Title: Environmental Representative E-mail Address: jamon hohensee@eogresources.com Date: 6/30/17 Phone: 432-556-8074 Approved by Environmental Specialist: 7/3/2017 Expiration Date: Conditions of Approval: See attached directive	Sec. 11.1	Jul-						
Printed Name: Jamon Hohensee Title: Environmental Representative E-mail Address: jamon hohensee@eogresources.com Date: 6/30/17 Phone: 432-556-8074 Expiration Date: See attached directive	Signature: 100 1110	Approved by Environmental Specialist:						
Title: Environmental Representative Approval Date: Expiration Date: E-mail Address: jamon hohensee@eogresources.com Conditions of Approval: Date: 6/30/17 Phone: 432-556-8074 See attached directive	Printed Name: Jamon Hohensee	et s. Martin Colonia (1967). Papar a visita de Calament Arbeita (1968). L'escargant à tribut						
E-mail Address: jamon hohensee@eogresources.com Date: 6/30/17 Phone: 432-556-8074 Conditions of Approval: See attached directive	Title: Environmental Representative	Approval Date: 7/3/2017 Expiration Date:						
Date: 6/30/17 Phone: 432-556-8074 see attached directive		Conditions of Approval:						
A. I. A. J. Listingal Chapter of Nagascary	Di 422 556 9074							
	* Attach Additional Sheets If Necessary	1DD 4745						

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

						OPERA	IOR		Initia	ıl Report	\boxtimes	Final Report
		OG Resour					non Hohensee					
		pions Drive,				Telephone No. (432)556-8074						
Facility Nar	me Beowu	ılf 33 State C	Com 6011	ł]	Facility Type Production Facility						
Surface Ow	ner: NM S	tate Lands		Mineral O	wner: l	er: NM State Lands API No. 30025435310000						00
				•		N OF REI						
Unit Letter N	Section 33	Township 23S	Range 35E	Feet from the	North/	South Line	Feet from the	East/West I	Line	County	Lea	
				Latitude N 32				0				
m (D.1	DIII			NAT	URE	OF RELI		1 77 1				
	Type of Release: PW Source of Release: Water Truck						Release 130 bbl			Recovered 0 Hour of Dis		
Source of Re	iease: wate	r Truck				6/28/17	iour of Occurrenc	6/29		nour of Dis	covery	
Was Immedia	ate Notice (_	Yes 🗵	No Not Re	quired	If YES, To	Whom?					
By Whom? J	osh Russo					Date and H	lour 3/15/10 4:5	59 p.m.				
Was a Water	course Read	ched?	Yes 🗵] No		If YES, Vo	lume Impacting t	he Watercour	se.			
If a Watercou	ırse was Im	pacted, Descri	ibe Fully.*	*								
N/A												
Produced war	ter was rele	notified EOG	ater haule	r truck on the side ental group. The so lean material to su	oils that	impacted we						
Describe Are	a Affected	and Cleanup A	Action Tak	en.*								
				to define spills ext backfill material.								posal. Site
regulations at public health should their of or the environ	Il operators or the envi- operations h nment. In a	are required to ronment. The ave failed to a	o report ar acceptance adequately OCD accep	is true and complad/or file certain rece of a C-141 repoint investigate and retained of a C-141 received.	elease no ort by the emediate	otifications and NMOCD me contaminati	nd perform correct arked as "Final R on that pose a thr	ctive actions for eport" does not eat to ground	or rele ot relie water	eases which eve the open s, surface wa	may er rator of ater, hu	ndanger Fliability man health
							OIL CON	SERVATI	ON	DIVISIO	<u>)N</u>	
Signature:												
Printed Name	e: Ike Tavaı	rez				Approved by	District Supervis	or:				
Title: Project						Approval Dat	e:	Expira	ation I	Date:		
E-mail Addre	ess: Ike.Tav	arez@TetraTe	ech.com			Conditions of	Approval:			Attached		
Date:			Phone:	(432) 682-4559							_	

^{*} Attach Additional Sheets If Necessary

Appendix B

Water Well Data Average Depth to Groundwater (ft) Beowulf 33 State Com 601H Lea County, New Mexico

	22 Sc	outh	34	East	
6	5	4	3	2	1
7	8	9	10	11 30	12 50
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

_	22 Sc	uth	35	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	22 South 36 East			East	
6	5	4	3	2	1
195	212				137
7	8	9	10	11	12
18	17	16 170	15	14	13
19	20	21	22 22	23	24
30	29	28	27	26	25
			160		118
31	32	33	34	35 181 187	36

	23 S	outh	3		
6	5	4	3	2	1
7	8 255	9	10	11	12
18	17	16	15	14 318	13
19	20	21	22 295	23 265	24
30	29	28	27	26	25
31	32 130	33	34	35	36

	23 Sc	outh	East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 Site	34	35	36

	23 9	South	3	36 East			
6	5	4 160	3	2	1		
7	8	9	10	11	12		
18	17	16 220	15 149	14	13		
19	20	21	22 400	23 143	24		
30	29	28	27	26	25		
31 189	32	33	34	35	36 127		

	24 Sc	24 South 34 East				
6	5	4	3	2	1	
7	8	9	10	11	12	
18	17	16	15	14	13	
19	20	21	22	23	24	
30	29	28	27	26	25	
31	32	33	34	35	36	

	24 Sc	uth	35	East	
6	5 4		3 2		1
7	8 9		10 300	11	12
18	17	16	15	14	13
19	20 97	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	24 Sc	uth	36	East	
6	5	4	3	2	1
		165			
7	8	9	10	11	12
18	17	16	15	14	13
			312		
19	20	21	22	23	24
				160	
30	29	28	27	26	25
31	32	33 54	34	35	36
		53			

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- **143** NMOCD Groundwater map well location



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

3 ,	,	\ I				0	, ,		,	`	,
	POD										
	Sub-	Q	QQ						Depth	Depth	Water
POD Number	Code basin C	ounty 64	16 4	Sec	Tws	Rng	Х	Υ	Well	Water	Column
<u>CP 00499</u>	СР	LE	3 3	23	23S	35E	655875	3573194* 🎒	150		
CP 00568	CP	LE 2	2 4	09	23S	35E	653908	3576878* 🎒	875		
CP 00843 POD1	СР	LE	4 2	36	23S	35E	658729	3570823*	250		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 3

PLSS Search:

Township: 23S Range: 35E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

9/15/17 7:55 AM

Appendix C

Analytical Report 557206

for Tetra Tech- Midland

Project Manager: Ike Tavarez Beowulf 33 State Com 601H

13-JUL-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





13-JUL-17

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): **557206 Beowulf 33 State Com 601H**

Project Address: Lea County, New Mexico

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 557206. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 557206 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Roah

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 557206

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Tetra Tech- Midland, Midland, TX

Beowulf 33 State Com 601H

Trench #1 (0-1') S 07-10-17 00:00 557206-001 Trench #1 (2') S 07-10-17 00:00 557206-002 Trench #1 (4') S 07-10-17 00:00 557206-003 Trench #1 (6') S 07-10-17 00:00 557206-004 Trench #1 (8') S 07-10-17 00:00 557206-005 Trench #2 (0-1') S 07-10-17 00:00 557206-006 Trench #2 (1') S 07-10-17 00:00 557206-007
Trench #1 (4') S 07-10-17 00:00 557206-003 Trench #1 (6') S 07-10-17 00:00 557206-004 Trench #1 (8') S 07-10-17 00:00 557206-005 Trench #2 (0-1') S 07-10-17 00:00 557206-006 Trench #2 (1') S 07-10-17 00:00 557206-007
Trench #1 (6') S 07-10-17 00:00 557206-004 Trench #1 (8') S 07-10-17 00:00 557206-005 Trench #2 (0-1') S 07-10-17 00:00 557206-006 Trench #2 (1') S 07-10-17 00:00 557206-007
Trench #1 (8') S 07-10-17 00:00 557206-005 Trench #2 (0-1') S 07-10-17 00:00 557206-006 Trench #2 (1') S 07-10-17 00:00 557206-007
Trench #2 (0-1') S 07-10-17 00:00 557206-006 Trench #2 (1') S 07-10-17 00:00 557206-007
Trench #2 (1') S 07-10-17 00:00 557206-007
Trench #2 (2') S 07-10-17 00:00 557206-008
Trench #2 (4') S 07-10-17 00:00 557206-009
Trench #2 (6') S 07-10-17 00:00 557206-010
Trench #2 (8') S 07-10-17 00:00 557206-011
Trench #3 (0-1') S 07-10-17 00:00 557206-012
Trench #3 (1') S 07-10-17 00:00 557206-013
Trench #3 (2') S 07-10-17 00:00 557206-014
Trench #3 (4') S 07-10-17 00:00 557206-015
Trench #3 (6') S 07-10-17 00:00 557206-016
Trench #3 (8') S 07-10-17 00:00 557206-017
Trench #4 (0-1') S 07-10-17 00:00 557206-018
Trench #4 (1') S 07-10-17 00:00 557206-019
Trench #4 (2') S 07-10-17 00:00 557206-020
Trench #4 (4') S 07-10-17 00:00 557206-021
Trench #4 (6') S 07-10-17 00:00 557206-022
Trench #4 (8') S 07-10-17 00:00 557206-023
Trench #4 (10') S 07-10-17 00:00 557206-024
Trench #5 (0-1') S 07-10-17 00:00 557206-025
Trench #5 (1') S 07-10-17 00:00 557206-026
Trench #5 (2') S 07-10-17 00:00 557206-027
Trench #5 (4') S 07-10-17 00:00 557206-028
Trench #5 (6') S 07-10-17 00:00 557206-029
Trench #5 (8') S 07-10-17 00:00 557206-030
Trench #5 (10') S 07-10-17 00:00 557206-031
Trench #5 (12') S 07-10-17 00:00 557206-032
Trench #5 (14') S 07-10-17 00:00 557206-033
Trench #6 (0-1') S 07-10-17 00:00 557206-034
Trench #6 (1') S 07-10-17 00:00 557206-035
Trench #6 (2') S 07-10-17 00:00 557206-036
Trench #6 (4') S 07-10-17 00:00 557206-037
Trench #6 (6') S 07-10-17 00:00 557206-038
Trench #6 (8') S 07-10-17 00:00 557206-039
Trench #6 (10') S 07-10-17 00:00 557206-040
Trench #7 (0-1') S 07-10-17 00:00 557206-041
Trench #7 (1') S 07-10-17 00:00 557206-042
Trench #7 (2') S 07-10-17 00:00 557206-043



Sample Cross Reference 557206



Tetra Tech- Midland, Midland, TX

Beowulf 33 State Com 601H

Trench #7 (4')	S	07-10-17 00:00	557206-044
Trench #7 (6')	S	07-10-17 00:00	557206-045
Trench #7 (8')	S	07-10-17 00:00	557206-046

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CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Beowulf 33 State Com 601H

Project ID: Report Date: 13-JUL-17
Work Order Number(s): 557206

Report Date: 07/11/2017

Sample receipt non conformances and comments:

07/12/17: Per Jeanne Finch, run Chlorides that were originally marked on the COC on hold.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3022018 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3022023 Inorganic Anions by EPA 300/300.1

Lab Sample ID 557206-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 557206-001, -005, -006, -011, -012, -017, -018, -024, -025, -033, -034, -040, -041, -046.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



$Tetra\ Tech\ Midland,\ Midland,\ TX$

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17 **Project Manager:** Kelsey Brooks

	Lab Id:	557206-0	001	557206-0	02	557206-0	003	557206-0	04	557206-005		557206-006	
Analysis Requested	Field Id:	Trench #1 (0-1')	Trench #1	(2')	Trench #1	(4')	Trench #1	(6')	Trench #1	1 (8')	Trench #2	(0-1')
mulysis Requesicu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 0	0:00	Jul-10-17 0	00:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17	00:00
BTEX by EPA 8021B	Extracted:	Jul-11-17 1	6:00							Jul-11-17	16:00	Jul-11-17	16:00
	Analyzed:	Jul-11-17 1	7:44							Jul-11-17	18:00	Jul-12-17	07:39
	Units/RL:	mg/kg	RL							mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Toluene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Ethylbenzene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
m,p-Xylenes		< 0.00398	0.00398							< 0.00401	0.00401	< 0.00702	0.00702
o-Xylene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Total Xylenes		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Total BTEX		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-11-17 1	7:00	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17	17:00	Jul-11-17	17:00
	Analyzed:	Jul-11-17 1	8:00	Jul-12-17 1	4:35	Jul-12-17 1	4:58	Jul-12-17 1	5:14	Jul-11-17	17:37	Jul-11-17	18:08
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1540	24.6	16.4	5.00	17.9	5.00	18.4	5.00	107	4.93	781	4.96
TPH By SW8015 Mod	Extracted:	Jul-11-17 1	1:00							Jul-11-17	11:00	Jul-11-17	11:00
	Analyzed:	Jul-11-17 1	3:22							Jul-11-17	14:23	Jul-11-17	14:44
	Units/RL:	mg/kg	RL							mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0							<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		21.2	15.0							<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0							<15.0	15.0	<15.0	15.0
Total TPH		21.2	15.0							<15.0	15.0	<15.0	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17 **Project Manager:** Kelsey Brooks

	7 1 71	557206.0	07	557206.6	200	557206.0	00	557206.0	10	557206.0)11	557206	012
	Lab Id:	557206-0		557206-0		557206-0		557206-0		557206-0		557206-0	
Analysis Requested	Field Id:	Trench #2	(1')	Trench #2	(2')	Trench #2	(4')	Trench #2	(6')	Trench #2	(8')	Trench #3	(0-1')
Timely sis Tie questeu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17 0	0:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17	00:00
BTEX by EPA 8021B	Extracted:									Jul-11-17 1	6:00	Jul-11-17	16:00
	Analyzed:									Jul-12-17 (7:56	Jul-11-17	18:48
	Units/RL:									mg/kg	RL	mg/kg	RL
Benzene										< 0.00344	0.00344	< 0.00202	0.00202
Toluene										< 0.00344	0.00344	< 0.00202	0.00202
Ethylbenzene										< 0.00344	0.00344	< 0.00202	0.00202
m,p-Xylenes										< 0.00687	0.00687	< 0.00404	0.00404
o-Xylene										< 0.00344	0.00344	< 0.00202	0.00202
Total Xylenes										< 0.00344	0.00344	< 0.00202	0.00202
Total BTEX										< 0.00344	0.00344	< 0.00202	0.00202
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17 1	7:00	Jul-11-17	17:00
	Analyzed:	Jul-12-17 1	5:21	Jul-12-17 1	5:29	Jul-12-17 1	6:06	Jul-12-17 1	5:13	Jul-11-17 1	8:16	Jul-11-17	18:23
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1150	5.00	6.01	5.00	6.13	5.00	< 5.00	5.00	14.3	4.98	2600	25.0
TPH By SW8015 Mod	Extracted:									Jul-11-17 1	1:00	Jul-11-17	11:00
	Analyzed:									Jul-11-17 1	5:04	Jul-11-17	15:25
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)										<14.9	14.9	<15.0	15.0
Oil Range Hydrocarbons (ORO)										<14.9	14.9	<15.0	15.0
Total TPH										<14.9	14.9	<15.0	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H

Pag

Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17

Project Manager: Kelsey Brooks

	7 1 71	557206.0	12	557206.6	11.4	557206.0	1.5	557206.0	1.6	557206.0)17	557206	010
	Lab Id:	557206-0	-	557206-0		557206-0		557206-0		557206-0		557206-0	
Analysis Requested	Field Id:	Trench #3	(1')	Trench #3	(2')	Trench #3	(4')	Trench #3	(6')	Trench #3	(8')	Trench #4	(0-1')
Timely sis Tie questeu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	_
	Sampled:	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17 0	0:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17	00:00
BTEX by EPA 8021B	Extracted:									Jul-11-17 1	6:00	Jul-11-17	16:00
	Analyzed:									Jul-11-17 1	9:05	Jul-11-17	19:20
	Units/RL:									mg/kg	RL	mg/kg	RL
Benzene										< 0.00200	0.00200	< 0.00201	0.00201
Toluene										< 0.00200	0.00200	< 0.00201	0.00201
Ethylbenzene										< 0.00200	0.00200	< 0.00201	0.00201
m,p-Xylenes										< 0.00401	0.00401	< 0.00402	0.00402
o-Xylene										< 0.00200	0.00200	< 0.00201	0.00201
Total Xylenes										< 0.00200	0.00200	< 0.00201	0.00201
Total BTEX										< 0.00200	0.00200	< 0.00201	0.00201
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17 1	7:00	Jul-11-17	17:00
	Analyzed:	Jul-12-17 1	6:21	Jul-12-17 1	6:29	Jul-12-17 1	6:37	Jul-12-17 1	6:44	Jul-11-17 1	8:46	Jul-11-17	18:54
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2750	25.0	67.3	5.00	7.90	5.00	6.39	5.00	11.8	4.94	3830	24.9
TPH By SW8015 Mod	Extracted:									Jul-11-17 1	1:00	Jul-11-17	11:00
	Analyzed:									Jul-11-17 1	5:46	Jul-11-17	16:06
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)										<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)										<15.0	15.0	<15.0	15.0
Total TPH										<15.0	15.0	<15.0	15.0

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H

Page 46 of

Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17 **Project Manager:** Kelsey Brooks

											-		
	Lab Id:	557206-0)19	557206-0	20	557206-0)21	557206-0)22	557206-0)23	557206-0)24
Analysis Requested	Field Id:	Trench #4	(1')	Trench #4	(2')	Trench #4	(4')	Trench #4	(6')	Trench #4	(8')	Trench #4	(10')
Anaiysis Kequesieu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-10-17 (00:00	Jul-10-17 0	0:00	Jul-10-17 0	00:00	Jul-10-17 0	00:00	Jul-10-17 (00:00	Jul-10-17 (00:00
BTEX by EPA 8021B	Extracted:											Jul-11-17	6:00
	Analyzed:											Jul-11-17	9:36
	Units/RL:											mg/kg	RL
Benzene												< 0.00198	0.00198
Toluene												< 0.00198	0.00198
Ethylbenzene												< 0.00198	0.00198
m,p-Xylenes												< 0.00396	0.00396
o-Xylene												< 0.00198	0.00198
Total Xylenes												< 0.00198	0.00198
Total BTEX												< 0.00198	0.00198
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17	13:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17	7:00
	Analyzed:	Jul-12-17	17:07	Jul-12-17 1	7:15	Jul-12-17 1	7:38	Jul-12-17 1	7:46	Jul-12-17 1	7:53	Jul-11-17	9:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3080	25.0	1380	25.0	252	4.95	35.9	4.94	108	4.91	26.8	4.99
TPH By SW8015 Mod	Extracted:											Jul-11-17	1:00
	Analyzed:											Jul-11-17	6:27
	Units/RL:											mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	·											<15.0	15.0
Diesel Range Organics (DRO)												<15.0	15.0
Oil Range Hydrocarbons (ORO)												<15.0	15.0
Total TPH						·				·		<15.0	15.0

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17 **Project Manager:** Kelsey Brooks

	Lab Id:	557206-0)25	557206-0)26	557206-0	27	557206-0)28	557206-0)29	557206-0	30
Amalusia Daguastad	Field Id:	Trench #5 (0-1')	Trench #5	(1')	Trench #5	(2')	Trench #5	(4')	Trench #5	(6')	Trench #5	(8')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-10-17 (00:00	Jul-10-17 0	00:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17 (00:00	Jul-10-17 0	0:00
BTEX by EPA 8021B	Extracted:	Jul-11-17 1	6:00										
	Analyzed:	Jul-11-17 1	9:53										
	Units/RL:	mg/kg	RL										
Benzene		< 0.00201	0.00201										
Toluene		< 0.00201	0.00201										
Ethylbenzene		< 0.00201	0.00201										
m,p-Xylenes		< 0.00402	0.00402										
o-Xylene		< 0.00201	0.00201										
Total Xylenes		< 0.00201	0.00201										
Total BTEX		< 0.00201	0.00201										
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-11-17 1	7:00	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17	3:30	Jul-12-17 1:	5:00
	Analyzed:	Jul-11-17 1	9:09	Jul-12-17 1	8:01	Jul-12-17 1	8:09	Jul-12-17 1	8:16	Jul-12-17	8:24	Jul-12-17 19	9:33
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5030	49.5	3370	24.8	2340	24.8	875	5.00	399	4.99	3010	24.8
TPH By SW8015 Mod	Extracted:	Jul-11-17 1	1:00										
	Analyzed:	Jul-11-17 1	6:47										
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)	'	<15.0	15.0										
Diesel Range Organics (DRO)		187	15.0										
Oil Range Hydrocarbons (ORO)		<15.0	15.0										
Total TPH		187	15.0										

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Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0	031	557206-0)32	557206-0	33	557206-	034	557206-0)35	557206-0	36
4 1 1 2	Field Id:	Trench #5	(10')	Trench #5	(12')	Trench #5 ((14')	Trench #6	(0-1')	Trench #6	(1')	Trench #6	(2')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 (00:00	Jul-10-17 0	0:00	Jul-10-17	00:00	Jul-10-17 (00:00	Jul-10-17 0	00:00
BTEX by EPA 8021B	Extracted:					Jul-11-17 10	6:00	Jul-11-17	16:00				
	Analyzed:					Jul-11-17 20	0:41	Jul-12-17 (08:12				
	Units/RL:					mg/kg	RL	mg/kg	RL				
Benzene						< 0.00202	0.00202	< 0.00337	0.00337				
Toluene						< 0.00202	0.00202	< 0.00337	0.00337				
Ethylbenzene						< 0.00202	0.00202	< 0.00337	0.00337				
m,p-Xylenes						< 0.00404	0.00404	< 0.00673	0.00673				
o-Xylene						< 0.00202	0.00202	< 0.00337	0.00337				
Total Xylenes						< 0.00202	0.00202	< 0.00337	0.00337				
Total BTEX						< 0.00202	0.00202	< 0.00337	0.00337				
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	5:00	Jul-12-17 1	5:00	Jul-11-17 1	7:00	Jul-11-17	17:00	Jul-12-17 1	5:00	Jul-12-17 1	5:00
	Analyzed:	Jul-12-17 1	9:10	Jul-12-17 1	9:41	Jul-11-17 19	9:17	Jul-11-17	19:48	Jul-12-17 1	9:49	Jul-12-17 1	9:56
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		302	4.96	706	4.95	98.5	4.97	2030	24.9	1780	24.8	1070	4.98
TPH By SW8015 Mod	Extracted:					Jul-11-17 1	1:00	Jul-11-17	11:00				
	Analyzed:					Jul-11-17 1	7:07	Jul-11-17	18:07				
	Units/RL:					mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)						<15.0	15.0	<14.9	14.9				
Diesel Range Organics (DRO)						<15.0	15.0	<14.9	14.9				
Oil Range Hydrocarbons (ORO)						<15.0	15.0	<14.9	14.9				
Total TPH						<15.0	15.0	<14.9	14.9				

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0	37	557206-0	38	557206-0	39	557206-	040	557206-0)41	557206-0)42
Analysis Requested	Field Id:	Trench #6	(4')	Trench #6	(6')	Trench #6	(8')	Trench #6	(10')	Trench #7	(0-1')	Trench #7	(1')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		SOIL	
	Sampled:	Jul-10-17 0	0:00	Jul-10-17 0	0:00	Jul-10-17 0	0:00	Jul-10-17	00:00	Jul-10-17 (00:00	Jul-10-17 0	00:00
BTEX by EPA 8021B	Extracted:							Jul-11-17	16:00	Jul-11-17	6:00		
	Analyzed:							Jul-11-17	17:27	Jul-11-17 2	21:14		
	Units/RL:							mg/kg	RL	mg/kg	RL		
Benzene								< 0.00200	0.00200	< 0.00200	0.00200		
Toluene								< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene								< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes								< 0.00401	0.00401	< 0.00401	0.00401		
o-Xylene								< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes								< 0.00200	0.00200	< 0.00200	0.00200		
Total BTEX								< 0.00200	0.00200	< 0.00200	0.00200		
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	5:00	Jul-12-17 1	5:00	Jul-12-17 1	5:00	Jul-11-17	17:00	Jul-11-17	7:00	Jul-12-17 1	5:00
	Analyzed:	Jul-12-17 2	0:19	Jul-12-17 2	0:27	Jul-12-17 2	0:35	Jul-11-17	19:25	Jul-11-17	9:55	Jul-12-17 2	0:42
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		234	4.98	7.30	4.93	9.67	4.99	9.98	4.99	1200	24.9	1200	4.97
TPH By SW8015 Mod	Extracted:							Jul-11-17	11:00	Jul-11-17	1:00		
	Analyzed:							Jul-11-17	18:26	Jul-11-17	8:46		
	Units/RL:							mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)								<15.0	15.0	<15.0	15.0		
Diesel Range Organics (DRO)								<15.0	15.0	66.0	15.0		
Oil Range Hydrocarbons (ORO)								<15.0	15.0	<15.0	15.0		
Total TPH								<15.0	15.0	66.0	15.0		

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Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 13-JUL-17 **Project Manager:** Kelsey Brooks

	Lab Id:	557206-0)43	557206-0)44	557206-0	45	557206-0)46		
Analysis Requested	Field Id:	Trench #7	(2')	Trench #7	(4')	Trench #7	(6')	Trench #7	(8')		
Analysis Requesieu	Depth:										
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 0	00:00	Jul-10-17 0	0:00	Jul-10-17 (00:00		
BTEX by EPA 8021B	Extracted:							Jul-11-17 1	6:00		
	Analyzed:							Jul-11-17 2	1:30		
	Units/RL:							mg/kg	RL		
Benzene								< 0.00199	0.00199		
Toluene								< 0.00199	0.00199		
Ethylbenzene								< 0.00199	0.00199		
m,p-Xylenes								< 0.00398	0.00398		
o-Xylene								< 0.00199	0.00199		
Total Xylenes								< 0.00199	0.00199		
Total BTEX								< 0.00199	0.00199		
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	5:00	Jul-12-17 1	5:00	Jul-12-17 1	5:00	Jul-11-17 1	7:00		
	Analyzed:	Jul-12-17 2	20:50	Jul-12-17 2	0:58	Jul-12-17 2	1:21	Jul-11-17 2	0:18		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		42.8	4.96	10.4	4.98	6.32	5.00	44.0	4.99		
TPH By SW8015 Mod	Extracted:				İ			Jul-11-17 1	1:00		
	Analyzed:							Jul-11-17 1	9:06		
	Units/RL:							mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)								<15.0	15.0		
Diesel Range Organics (DRO)								<15.0	15.0		
Oil Range Hydrocarbons (ORO)								<15.0	15.0		
Total TPH								<15.0	15.0		

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Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
1211 W Florida Ave, Midland, TX 79701	(432) 563-1800	(432) 563-1713
2525 W. Huntington Dr Suite 102 Tempe A7 85282	(602) 437 0330	

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Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, 557206

Sample: 557206-001 / SMP

Project ID:

Lab Batch #: 3022004 Matrix: Soil Batch: Units: mø/kø Date Analyzed: 07/11/17 13:22 SUDDOCATE DECOVEDY STUDY

omes. Hig/kg Date Analyzed. 07/11/17 13.22	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	114	99.8	114	70-135		
o-Terphenyl	58.7	49.9	118	70-135		

Lab Batch #: 3022004 Sample: 557206-005 / SMP Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 14:23 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 111 99.7 70-135 111 o-Terphenyl 57.0 49.9 114 70-135

Lab Batch #: 3022004 Sample: 557206-006 / SMP Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 14:44 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.7	109	70-135	
o-Terphenyl	55.8	49.9	112	70-135	

Lab Batch #: 3022004 Sample: 557206-011 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 15:04	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	etane		111	99.6	111	70-135			
o-Terpheny	yl		56.6	49.8	114	70-135			

Lab Batch #: 3022004 Sample: 557206-012 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 15:25	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		127	99.9	127	70-135		
o-Terpheny	1		64.9	50.0	130	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, 557206

Project ID:

Lab Batch #: 3022004 Sample: 557206-017 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 15:46 SUPPOCATE DECOVERY STUDY

Units:	mg/kg	Date Analyzed: 0//11/17 15:46	SURROGATE RECOVERY STUDY					
	TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1-Chlorooc	tane		120	99.9	120	70-135		
o-Terpheny	1		62.1	50.0	124	70-135		

 Lab Batch #: 3022004
 Sample: 557206-018 / SMP
 Batch: 1
 Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/11/17 16:06 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 113 100 113 70-135 o-Terphenyl 58.7 50.0 117 70-135

Lab Batch #: 3022004 **Sample:** 557206-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg Date Analyzed: 07/11/17 16:27 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	99.8	112	70-135	
o-Terphenyl	57.9	49.9	116	70-135	

Units:	mg/kg	Date Analyzed: 07/11/17 16:47	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	etane		112	99.9	112	70-135			
o-Terpheny	yl		57.4	50.0	115	70-135			

Units:	mg/kg	Date Analyzed: 07/11/17 17:07	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		110	99.8	110	70-135		
o-Terpheny	1		57.5	49.9	115	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, 557206

Sample: 557206-040 / SMP

Project ID:

Lab Batch #: 3022018 Units: mø/kø

Date Analyzed: 07/11/17 17:27

Matrix: Soil Batch:

Units:	ng/kg	Date Analyzed: 07/11/17 17:27	SURROGATE RECOVERY STUDY					
	BTEX	by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluorobenzene			0.0255	0.0300	85	80-120		
4-Bromofluorobe	nzene		0.0344	0.0300	115	80-120		

Lab Batch #: 3022018 Sample: 557206-001 / SMP Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 17:44 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0311 0.0300 104 80-120 4-Bromofluorobenzene 0.0295 0.0300 98 80-120

Lab Batch #: 3022018 Sample: 557206-005 / SMP Batch: Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/11/17 18:00 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0349	0.0300	116	80-120	

Lab Batch #: 3022004 Sample: 557206-034 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 18:07	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	etane		111	99.6	111	70-135		
o-Terpheny	/l		57.3	49.8	115	70-135		

Lab Batch #: 3022004 Sample: 557206-040 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 18:26	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	tane		114	99.7	114	70-135		
o-Terpheny	1		59.1	49.9	118	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, 557206

Project ID: Matrix: Soil

Lab Batch #: 3022004 **Sample:** 557206-041 / SMP Batch:

Units:	ECOVERY S	STUDY					
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		112	99.7	112	70-135	
o-Terphenyl			57.9	49.9	116	70-135	
	" 2022010	G			G '1		

Lab Batch #: 3022018 Sample: 557206-012 / SMP Batch: 1 Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/11/17 18:48 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0268 0.0300 89 80-120 4-Bromofluorobenzene 0.0292 0.0300 97 80-120

Lab Batch #: 3022018 Sample: 557206-017 / SMP Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 07/11/17 19:05 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 3022004 **Sample:** 557206-046 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 19:06	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	ctane		108	99.8	108	70-135			
o-Terpheny	yl		56.2	49.9	113	70-135			

Lab Batch #: 3022018 **Sample:** 557206-018 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 19:20	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorol	benzene		0.0296	0.0300	99	80-120		
4-Bromofluo	4-Bromofluorobenzene			0.0300	114	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, 557206

Lab Batch #: 3022018

Project ID:

Matrix: Soil **Sample:** 557206-024 / SMP Batch: Data Analyzadi 07/11/17 10:26 ... _ /1_ _

Units: mg/kg	Date Analyzed: 07/11/17 19:3	36 SU	SURROGATE RECOVERY STUDY					
]	BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0328	0.0300	109	80-120			
4-Bromofluorobenzen	e	0.0293	0.0300	98	80-120			

Lab Batch #: 3022018 Sample: 557206-025 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 19:53 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Recovery Limits Amount Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0317 0.0300 106 80-120 4-Bromofluorobenzene 0.0274 0.0300 91 80-120

Lab Batch #: 3022018 Sample: 557206-033 / SMP Matrix: Soil Batch:

Units: mg/kg **Date Analyzed:** 07/11/17 20:41 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0250	0.0300	83	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 3022018 **Sample:** 557206-041 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 21:14	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	robenzene	-	0.0259	0.0300	86	80-120			
4-Bromoflu	uorobenzene		0.0341	0.0300	114	80-120			

Lab Batch #: 3022018 **Sample:** 557206-046 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 21:30	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro	obenzene	Analytes	0.0247	0.0300	82	80-120			
4-Bromoflu	orobenzene		0.0253	0.0300	84	80-120			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Batch:

Work Orders: 557206, 557206

Sample: 557206-006 / SMP

Project ID:

0.0300

99

80-120

Lab Batch #: 3022018 T T-- 24 -- -... _ /1_ _ Data Amalamada 07/12/17 07:20 Matrix: Soil

Units: mg/kg Date Analyzed: 07/12/17/07:39 SURROGATE RECOVERY STUDY							
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0320	0.0300	107	80-120			
4-Bromofluorobenzene	0.0305	0.0300	102	80-120			

Lab Batch #: 3022018 Sample: 557206-011 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/12/17 07:56 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0288 0.0300 96 80-120 4-Bromofluorobenzene

0.0296

Lab Batch #: 3022018 Sample: 557206-034 / SMP Batch: Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/12/17 08:12 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Sample: 727483-1-BLK / BLK **Lab Batch #:** 3022004 Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/11/17 12:00	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	ctane		114	100	114	70-135			
o-Terpheny	yl		59.6	50.0	119	70-135			

Lab Batch #: 3022018 **Sample:** 727492-1-BLK / BLK Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/11/17 17:11	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1,4-Difluorobe	enzene	Marytes	0.0297	0.0300	99	80-120		
4-Bromofluoro	4-Bromofluorobenzene			0.0300	105	80-120		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, 557206

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TT... *4 ...

Sample: 727483-1-BKS / BKS

Project ID:

Lab Batch #: 3022004 Units: mg/kg Date Analyzed: 07/11/17 12:41

Matrix: Solid Batch: 1

Units:	mg/kg	Date Analyzed: 07/11/17 12:41	SU	RROGATE RI	ECOVERY S	STUDY	
	TPH 1	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane	7 mary tes	123	100	123	70-135	
o-Terpheny			62.5	50.0	125	70-135	

Lab Batch #: 3022018 **Sample:** 727492-1-BKS / BKS Batch: 1 Matrix: Solid

Units:	mg/kg Date Analyzed: 0//11/1/ 15:4	6 SU	RROGATE RI	ECOVERY S	STUDY	
	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorol	penzene	0.0240	0.0300	80	80-120	
4-Bromofluo	robenzene	0.0266	0.0300	89	80-120	

Lab Batch #: 3022004 **Sample:** 727483-1-BSD / BSD Batch: Matrix: Solid

Units: mg/kg Date Analyzed: 07/11/17 13:02 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	62.1	50.0	124	70-135	

Lab Batch #: 3022018 **Sample:** 727492-1-BSD / BSD Batch: 1 Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/11/17 16:02	SURROGATE RECOVERY STUDY										
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1,4-Difluor	obenzene		0.0307	0.0300	102	80-120							
4-Bromofluorobenzene			0.0353	0.0300	118	80-120							

Batch: Lab Batch #: 3022004 **Sample:** 557206-001 S / MS Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 13:42	SURROGATE RECOVERY STUDY									
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooct	ane		111	100	111	70-135						
o-Terphenyl			57.1	50.0	114	70-135						

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, 557206

Project ID:

Lab Batch #: 3022018 Sample: 557206-040 S / MS Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 16:18 SURROGATE RECOVERY STUDY												
ВТ	EX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1,4-Difluorobenzene	Timaly tes	0.0308	0.0300	103	80-120							
4-Bromofluorobenzene		0.0345	0.0300	115	80-120							

Lab Batch #: 3022004 **Sample:** 557206-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units:	mg/kg	Date Analyzed: 07/11/17 14:03	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
		Analytes			[D]						
1-Chloroocta	ane		129	99.8	129	70-135					
o-Terphenyl			64.4	49.9	129	70-135					

 Lab Batch #: 3022018
 Sample: 557206-040 SD / MSD
 Batch: 1
 Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 16:34 SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B **Found** Limits Flags Amount Recovery [B] %R %R [A] [D] **Analytes** 1,4-Difluorobenzene 0.0329 0.0300 110 80-120 4-Bromofluorobenzene 0.0334 0.0300 111 80-120

Surrogate Recovery [D] = 100 * A / B

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #: 557206, 557206

Project ID:

Analyst: ALJ **Date Prepared:** 07/11/2017 **Batch #:** 1

Date Analyzed: 07/11/2017

Lab Batch ID: 3022018

Sample: 727492-1-BKS

Matrix: Solid

Units:

mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	[A]	[B]	Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	
Benzene	< 0.00200	0.100	0.115	115	0.0998	0.121	121	5	70-130	35	
Toluene	< 0.00200	0.100	0.111	111	0.0998	0.108	108	3	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.115	115	0.0998	0.118	118	3	71-129	35	
m,p-Xylenes	< 0.00401	0.200	0.206	103	0.200	0.205	103	0	70-135	35	
o-Xylene	< 0.00200	0.100	0.114	114	0.0998	0.120	120	5	71-133	35	

MGO **Date Prepared:** 07/11/2017 **Date Analyzed:** 07/11/2017 **Analyst:**

Lab Batch ID: 3022023 **Batch #:** 1 Matrix: Solid **Sample:** 727493-1-BKS

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	258	103	250	254	102	2	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #: 557206, 557206

Project ID:

Analyst: MGO

Date Prepared: 07/12/2017 **Batch #:** 1

Date Analyzed: 07/12/2017

Lab Batch ID: 3022109

Sample: 727553-1-BKS

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	< 5.00	250	258	103	250	259	104	0	90-110	20	

MGO **Date Prepared:** 07/12/2017 **Date Analyzed:** 07/12/2017 **Analyst:**

Lab Batch ID: 3022113 **Batch #:** 1 Matrix: Solid **Sample:** 727554-1-BKS

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	< 5.00	250	262	105	250	263	105	0	90-110	20	

Date Analyzed: 07/11/2017 **Analyst: ARM Date Prepared:** 07/11/2017

Lab Batch ID: 3022004 **Sample:** 727483-1-BKS **Batch #:** 1 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1150	115	1000	1100	110	4	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	1120	112	1000	1100	110	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #:

557206 3022018

mg/kg

QC- Sample ID: 557206-040 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

07/11/2017

Date Prepared: 07/11/2017

Analyst: ALJ

Reporting Units:

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Benzene	< 0.00202	0.101	0.103	102	0.100	0.119	119	14	70-130	35	
Toluene	< 0.00202	0.101	0.0942	93	0.100	0.103	103	9	70-130	35	
Ethylbenzene	< 0.00202	0.101	0.101	100	0.100	0.118	118	16	71-129	35	
m,p-Xylenes	< 0.00403	0.202	0.181	90	0.200	0.203	102	11	70-135	35	
o-Xylene	< 0.00202	0.101	0.0996	99	0.100	0.110	110	10	71-133	35	

Lab Batch ID:

3022023

QC- Sample ID: 557206-005 S

Batch #:

Matrix: Soil

Date Analyzed:

07/11/2017

Date Prepared: 07/11/2017

Analyst: MGO

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	107	247	378	110	247	387	113	2	90-110	20	X

Lab Batch ID:

3022023

QC- Sample ID: 557206-040 S

Batch #:

Matrix: Soil

Date Analyzed:

07/11/2017

Date Prepared: 07/11/2017

Analyst: MGO

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	9.98	250	284	110	250	286	110	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

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Final 1.001



Form 3 - MS / MSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #: 55

557206 3022109

QC- Sample ID: 557206-002 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

07/12/2017

Date Prepared: 07/12/2017

Analyst: MGO

Reporting Units:

mg/kg

1/ Analyst: MGC

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	16.4	250	273	103	250	275	103	1	90-110	20	

Lab Batch ID: 3022109

QC- Sample ID: 557206-016 S

Batch #:

1 Matrix: Soil

Date Analyzed: Reporting Units: 07/12/2017

mg/kg

Date Prepared: 07/12/2017

Analyst: MGO

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	6.39	250	270	105	250	269	105	0	90-110	20	

Lab Batch ID:

3022113

QC- Sample ID: 557206-031 S

Batch #:

Matrix: Soil

Date Analyzed:

07/12/2017

Date Prepared: 07/12/2017

Analyst: MGO

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

1

Inorganic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride	302	248	554	102	248	550	100	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #:

557206 3022113

QC- Sample ID: 557206-044 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

07/12/2017

Date Prepared: 07/12/2017

Analyst: MGO

Reporting Units:

mg/kg

Analyst. Woo

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1 may tos	[]	[10]		[10]	[22]		[0]				
Chloride	10.4	249	279	108	249	274	106	2	90-110	20	

Lab Batch ID: 3022004 **QC- Sample ID:** 557206-001 S

Batch #: 1 Matrix: Soil

Date Prepared: 07/11/2017

Analyst: ARM

Date Analyzed: Reporting Units:

mg/kg

07/11/2017

Z017 Analyst: Tikivi

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1030	103	998	1060	106	3	70-135	35	
Diesel Range Organics (DRO)	21.2	1000	1000	98	998	1070	105	7	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Tech
Name
Temp: Temp: Temp: Temp: Time: Time
ANALYSIS REQUEST Circle or Specify Method No.) Circle or
R
TPH 8015M (GRO - DRO - ORO - MRO). PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X X X Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance
ANALYSIS REQUEST TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 8082 / 608 NORM PLM (Asbestos) X X X X X X X X X X X X X X X X X X X
Report Limits or TRRP
TTRRP Report Anion/Cation Balance

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Page 36 6P58

Released to Imaging: 9/19/2022 12:59:47

4 of

Final 1.001

Tetra Tech		Relinquished by:	1	Relinquished by:	Relinguished							(LAB USE ONLY	LAB#			Comments:	Receiving Laboratory:	state)	Project Name:	District Mailie.	
Site Manager:		Date:	C Duit.	Mary Mily M	Disc.	Trench #7 (8')	Trench #7 (6')	Trench #7 (4')	Trench #7 (2')	Trench #7 (1')	Trench #7 (0-1')		SAMPLE IDENTIFICATION		Rush					EOG / Der / Par	
None	ORIGINAL COF	Received by:	mecelved by:			7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017		YEAR: 2017	SAMPLING		Sampler Signature:		Project #:		Strain 173	ıc.
R	Tem CF:			2		×	×	×	×	×	×	WATER SOIL HCL HNO ₃								lke Tavarez	4000 N. Big Spring St 401 Midland, Faxas Tel (432) 682-45 Fax (432) 682-35
TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles	7	lime:	Time:	(0:37			1	_	_	_		None # CONTAI	-	RS							reet, Ste 79705 59
TCLP Semi Volatiles	AND DELIVER		Sample Temperature	LAB USE ONLY		×					<	TPH TX10 TPH 8015I PAH 8270 Total Metal	005 (M () C	(Ext to (GRO -	035) DRO - 0	RO - N	Hg		(Circ		5
	FEDEX UPS	Rush Charges Authoriz Special Report Limits or		RE			× 1					CLP Volati CLP Semi RCI GC/MS Vol. GC/MS Sen PCB's 8082 IORM PLM (Asbes	i Vol . 82 mi. V	latiles 260B / 6 /ol. 827	624				or Specify	ANALYSIS REQUEST	1208



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 07/11/2017 10:37:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 557206

Temperature Measuring device used: R8

Sample Re	eceipt Checklist	Comments
#1 *Temperature of cooler(s)?	5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seal present on shipping container/ cooler?	No	
#5 *Custody Seals intact on shipping container/ cooler?	N/A	
#6 Custody Seals intact on sample bottles?	N/A	
#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain of Custody?	Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinquished/ received	d? Yes	
#12 Chain of Custody agrees with sample label(s)?	Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of Custo	dy? Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)?	Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	No	
#21 VOC samples have zero headspace?	N/A	

Analyst: ss		PH Device/Lot#:	
	Checklist completed by:	Shawnee Smith	Date: <u>07/11/2017</u>
	Checklist reviewed by:	Mike Kimmel	Date: <u>07/11/2017</u>

Analytical Report 557206

for Tetra Tech- Midland

Project Manager: Ike Tavarez Beowulf 33 State Com 601H

14-JUL-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





14-JUL-17

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): **557206 Beowulf 33 State Com 601H**

Project Address: Lea County, New Mexico

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 557206. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 557206 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Koah

Project Manager

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Sample Cross Reference 557206

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Tetra Tech- Midland, Midland, TX

Beowulf 33 State Com 601H

Trench #1 (0-1') S 07-10-17 00:00 557206-001 Trench #1 (2') S 07-10-17 00:00 557206-003 Trench #1 (4') S 07-10-17 00:00 557206-003 Trench #1 (8') S 07-10-17 00:00 557206-004 Trench #2 (0-1') S 07-10-17 00:00 557206-006 Trench #2 (0-1') S 07-10-17 00:00 557206-007 Trench #2 (1') S 07-10-17 00:00 557206-008 Trench #2 (2') S 07-10-17 00:00 557206-008 Trench #2 (4') S 07-10-17 00:00 557206-007 Trench #2 (8') S 07-10-17 00:00 557206-001 Trench #3 (0-1') S 07-10-17 00:00 557206-012 Trench #3 (0-1') S 07-10-17 00:00 557206-012 Trench #3 (1') S 07-10-17 00:00 557206-012 Trench #3 (2') S 07-10-17 00:00 557206-012 Trench #3 (2') S 07-10-17 00:00 557206-014 Trench #3 (8') S 07-10-17 0	Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Trench #1 (4) S 07-10-17 00:00 557206-003 Trench #1 (6) S 07-10-17 00:00 557206-004 Trench #2 (0-1) S 07-10-17 00:00 557206-005 Trench #2 (0-1) S 07-10-17 00:00 557206-006 Trench #2 (1) S 07-10-17 00:00 557206-007 Trench #2 (2) S 07-10-17 00:00 557206-009 Trench #2 (4) S 07-10-17 00:00 557206-019 Trench #2 (8) S 07-10-17 00:00 557206-010 Trench #3 (1) S 07-10-17 00:00 557206-011 Trench #3 (6) S 07-10-17 00:00 557206-012 Trench #3 (1) S 07-10-17 00:00 557206-012 Trench #3 (2) S 07-10-17 00:00 557206-013 Trench #3 (2) S 07-10-17 00:00 557206-013 Trench #3 (8) S 07-10-17 00:00 557206-015 Trench #3 (8) S 07-10-17 00:00 557206-015 Trench #4 (0-1) S 07-10-17 00:00 <t< td=""><td>Trench #1 (0-1')</td><td>S</td><td>07-10-17 00:00</td><td></td><td>557206-001</td></t<>	Trench #1 (0-1')	S	07-10-17 00:00		557206-001
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Trench #2 (2') \$ 07-10-17 00:00 557206-008 Trench #2 (4') \$ 07-10-17 00:00 557206-010 Trench #2 (6') \$ 07-10-17 00:00 557206-011 Trench #2 (8') \$ 07-10-17 00:00 557206-011 Trench #3 (0-1') \$ 07-10-17 00:00 557206-012 Trench #3 (1') \$ 07-10-17 00:00 557206-012 Trench #3 (2') \$ 07-10-17 00:00 557206-014 Trench #3 (2') \$ 07-10-17 00:00 557206-014 Trench #3 (4') \$ 07-10-17 00:00 557206-015 Trench #3 (6') \$ 07-10-17 00:00 557206-015 Trench #3 (8') \$ 07-10-17 00:00 557206-016 Trench #4 (0-1') \$ 07-10-17 00:00 557206-016 Trench #4 (1') \$ 07-10-17 00:00 557206-019 Trench #4 (2') \$ 07-10-17 00:00 557206-019 Trench #4 (6') \$ 07-10-17 00:00 557206-021 Trench #4 (6') \$ 07-10-17 00:00 557206-022 Trench #4 (8') \$ 07-10-17 00:00 557206-022 Trench #3 (1') \$ 07-10-17 00:00 557206-022	Trench #2 (0-1')	S	07-10-17 00:00		557206-006
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Trench #3 (2')	Trench #3 (0-1')	S	07-10-17 00:00		557206-012
Trench #3 (4') S 07-10-17 00:00 557206-015 Trench #3 (6') S 07-10-17 00:00 557206-016 Trench #3 (8') S 07-10-17 00:00 557206-017 Trench #4 (0-1') S 07-10-17 00:00 557206-018 Trench #4 (1') S 07-10-17 00:00 557206-019 Trench #4 (2') S 07-10-17 00:00 557206-020 Trench #4 (4') S 07-10-17 00:00 557206-021 Trench #4 (6') S 07-10-17 00:00 557206-021 Trench #4 (8') S 07-10-17 00:00 557206-022 Trench #4 (10') S 07-10-17 00:00 557206-023 Trench #5 (0-1') S 07-10-17 00:00 557206-023 Trench #5 (1') S 07-10-17 00:00 557206-025 Trench #5 (2') S 07-10-17 00:00 557206-025 Trench #5 (2') S 07-10-17 00:00 557206-026 Trench #5 (1') S 07-10-17 00:00 557206-028 Trench #5 (1') S 07-10-17 00:00 <td>Trench #3 (1')</td> <td>S</td> <td>07-10-17 00:00</td> <td></td> <td>557206-013</td>	Trench #3 (1')	S	07-10-17 00:00		557206-013
Trench #3 (6') S 07-10-17 00:00 557206-016 Trench #4 (0-1') S 07-10-17 00:00 557206-017 Trench #4 (1') S 07-10-17 00:00 557206-018 Trench #4 (1') S 07-10-17 00:00 557206-019 Trench #4 (2') Trench #4 (2') S 07-10-17 00:00 Trench #4 (6') S 07-10-17 00:00 557206-020 Trench #4 (6') S 07-10-17 00:00 557206-021 Trench #4 (6') S 07-10-17 00:00 557206-022 Trench #4 (8') S 07-10-17 00:00 557206-022 Trench #4 (10') S 07-10-17 00:00 557206-023 Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (2') Trench #5 (2') Trench #5 (4') S 07-10-17 00:00 557206-026 Trench #5 (6') S 07-10-17 00:00 557206-027 Trench #5 (12') Trench #5 (14') S 07-10-17 00:00 557206-028 Trench #5 (14') S 07-10-17 00:00 557206-032 Trench #6 (10') Trench #6 (0-1') Trench #6 (0-1') Trench #7 (0-1') S 07-10-17 00:00 557206-044 Trench #7 (0-1') Trench #6 (10') Trench #6 (10') Trench #7 (8') S 07-10-17 00:00 Not Analyzed Trench #6 (6') Not Analyzed	Trench #3 (2')	S	07-10-17 00:00		557206-014
Trench #3 (8') S 07-10-17 00:00 557206-017 Trench #4 (0-1') S 07-10-17 00:00 557206-018 Trench #4 (1') S 07-10-17 00:00 557206-019 Trench #4 (2') S 07-10-17 00:00 557206-020 Trench #4 (4') S 07-10-17 00:00 557206-021 Trench #4 (6') S 07-10-17 00:00 557206-022 Trench #4 (8') S 07-10-17 00:00 557206-023 Trench #5 (0-1') S 07-10-17 00:00 557206-023 Trench #5 (0-1') S 07-10-17 00:00 557206-024 Trench #5 (1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-025 Trench #5 (2') S 07-10-17 00:00 557206-027 Trench #5 (6') S 07-10-17 00:00 557206-027 Trench #5 (6') S 07-10-17 00:00 557206-029 Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (10') S 07-10-17 00:00	Trench #3 (4')	S	07-10-17 00:00		557206-015
Trench #4 (0-1') S 07-10-17 00:00 557206-018 Trench #4 (1') S 07-10-17 00:00 557206-019 Trench #4 (2') S 07-10-17 00:00 557206-020 Trench #4 (4') S 07-10-17 00:00 557206-021 Trench #4 (6) S 07-10-17 00:00 557206-022 Trench #4 (10') S 07-10-17 00:00 557206-023 Trench #4 (10') S 07-10-17 00:00 557206-024 Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-025 Trench #5 (2') S 07-10-17 00:00 557206-025 Trench #5 (2') S 07-10-17 00:00 557206-026 Trench #5 (6') S 07-10-17 00:00 557206-027 Trench #5 (12') S 07-10-17 00:00 557206-028 Trench #5 (6') S 07-10-17 00:00 557206-028 Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (10') S 07-10-17 00:00	Trench #3 (6')	S	07-10-17 00:00		557206-016
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Trench #4 (2') S 07-10-17 00:00 557206-020 Trench #4 (4') S 07-10-17 00:00 557206-021 Trench #4 (6') S 07-10-17 00:00 557206-022 Trench #4 (8') S 07-10-17 00:00 557206-023 Trench #4 (10') S 07-10-17 00:00 557206-024 Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-025 Trench #5 (2') S 07-10-17 00:00 557206-026 Trench #5 (2') S 07-10-17 00:00 557206-027 Trench #5 (4') S 07-10-17 00:00 557206-028 Trench #5 (6') S 07-10-17 00:00 557206-028 Trench #5 (12') S 07-10-17 00:00 557206-029 Trench #5 (14') S 07-10-17 00:00 557206-029 Trench #5 (14') S 07-10-17 00:00 557206-033 Trench #6 (0-1') S 07-10-17 00:00 557206-034 Trench #6 (10') S 07-10-17 00:0	Trench #4 (0-1')	S	07-10-17 00:00		557206-018
Trench #4 (4') S 07-10-17 00:00 557206-021 Trench #4 (6') S 07-10-17 00:00 557206-022 Trench #4 (8') S 07-10-17 00:00 557206-023 Trench #4 (10') S 07-10-17 00:00 557206-024 Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-026 Trench #5 (2') S 07-10-17 00:00 557206-026 Trench #5 (4') S 07-10-17 00:00 557206-027 Trench #5 (6') S 07-10-17 00:00 557206-028 Trench #5 (12') S 07-10-17 00:00 557206-029 Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (14') S 07-10-17 00:00 557206-032 Trench #6 (0-1') S 07-10-17 00:00 557206-033 Trench #6 (0-1') S 07-10-17 00:00 557206-034 Trench #7 (8') S 07-10-17 00:00 557206-046 Trench #7 (8') S 07-10-17 00:	Trench #4 (1')	S	07-10-17 00:00		557206-019
Trench #4 (6') S 07-10-17 00:00 557206-022 Trench #4 (8') S 07-10-17 00:00 557206-023 Trench #4 (10') S 07-10-17 00:00 557206-024 Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-026 Trench #5 (2') S 07-10-17 00:00 557206-026 Trench #5 (4') S 07-10-17 00:00 557206-027 Trench #5 (6') S 07-10-17 00:00 557206-028 Trench #5 (12') S 07-10-17 00:00 557206-029 Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (14') S 07-10-17 00:00 557206-032 Trench #6 (0-1') S 07-10-17 00:00 557206-033 Trench #6 (0-1') S 07-10-17 00:00 557206-034 Trench #7 (8') S 07-10-17 00:00 557206-040 Trench #7 (8') S 07-10-17 00:00 557206-046 Trench #5 (8') S 07-10-17 00:	Trench #4 (2')	S	07-10-17 00:00		557206-020
Trench #4 (8') S 07-10-17 00:00 557206-023 Trench #4 (10') S 07-10-17 00:00 557206-024 Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-026 Trench #5 (2') S 07-10-17 00:00 557206-027 Trench #5 (4') S 07-10-17 00:00 557206-028 Trench #5 (6') S 07-10-17 00:00 557206-028 Trench #5 (12') S 07-10-17 00:00 557206-029 Trench #5 (14') S 07-10-17 00:00 557206-032 Trench #5 (14') S 07-10-17 00:00 557206-032 Trench #6 (0-1') S 07-10-17 00:00 557206-033 Trench #6 (10') S 07-10-17 00:00 557206-034 Trench #7 (8') S 07-10-17 00:00 557206-040 Trench #7 (8') S 07-10-17 00:00 Not Analyzed Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17	Trench #4 (4')	S	07-10-17 00:00		557206-021
Trench #4 (10') S 07-10-17 00:00 557206-024 Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-026 Trench #5 (2') S 07-10-17 00:00 557206-027 Trench #5 (4') S 07-10-17 00:00 557206-028 Trench #5 (6') S 07-10-17 00:00 557206-029 Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (14') S 07-10-17 00:00 557206-032 Trench #6 (0-1') S 07-10-17 00:00 557206-033 Trench #6 (10') S 07-10-17 00:00 557206-034 Trench #7 (8-1') S 07-10-17 00:00 557206-040 Trench #7 (8') S 07-10-17 00:00 557206-041 Trench #5 (8') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-	Trench #4 (6')	S	07-10-17 00:00		557206-022
Trench #5 (0-1') S 07-10-17 00:00 557206-025 Trench #5 (1') S 07-10-17 00:00 557206-026 Trench #5 (2') S 07-10-17 00:00 557206-027 Trench #5 (4') S 07-10-17 00:00 557206-028 Trench #5 (6') S 07-10-17 00:00 557206-029 Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (14') S 07-10-17 00:00 557206-032 Trench #6 (0-1') S 07-10-17 00:00 557206-033 Trench #6 (10') S 07-10-17 00:00 557206-034 Trench #6 (10') S 07-10-17 00:00 557206-040 Trench #7 (0-1') S 07-10-17 00:00 557206-041 Trench #7 (8') S 07-10-17 00:00 Not Analyzed Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-	Trench #4 (8')	S	07-10-17 00:00		557206-023
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Trench #5 (4') S 07-10-17 00:00 557206-028 Trench #5 (6') S 07-10-17 00:00 557206-029 Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (14') S 07-10-17 00:00 557206-033 Trench #6 (0-1') S 07-10-17 00:00 557206-034 Trench #6 (10') S 07-10-17 00:00 557206-040 Trench #7 (0-1') S 07-10-17 00:00 557206-041 Trench #7 (8') S 07-10-17 00:00 557206-046 Trench #5 (8') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (4') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #5 (1')	S	07-10-17 00:00		557206-026
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Trench #5 (12') S 07-10-17 00:00 557206-032 Trench #5 (14') S 07-10-17 00:00 557206-033 Trench #6 (0-1') S 07-10-17 00:00 557206-034 Trench #6 (10') S 07-10-17 00:00 557206-040 Trench #7 (0-1') S 07-10-17 00:00 557206-041 Trench #7 (8') S 07-10-17 00:00 557206-046 Trench #5 (8') S 07-10-17 00:00 Not Analyzed Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #5 (4')	S	07-10-17 00:00		557206-028
Trench #5 (14') S 07-10-17 00:00 557206-033 Trench #6 (0-1') S 07-10-17 00:00 557206-034 Trench #6 (10') S 07-10-17 00:00 557206-040 Trench #7 (0-1') S 07-10-17 00:00 557206-041 Trench #7 (8') S 07-10-17 00:00 557206-046 Trench #5 (8') S 07-10-17 00:00 Not Analyzed Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #5 (6')	S	07-10-17 00:00		557206-029
Trench #6 (0-1') S 07-10-17 00:00 557206-034 Trench #6 (10') S 07-10-17 00:00 557206-040 Trench #7 (0-1') S 07-10-17 00:00 557206-041 Trench #7 (8') S 07-10-17 00:00 557206-046 Trench #5 (8') S 07-10-17 00:00 Not Analyzed Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #5 (12')	S	07-10-17 00:00		557206-032
Trench #6 (10') S 07-10-17 00:00 557206-040 Trench #7 (0-1') S 07-10-17 00:00 557206-041 Trench #7 (8') S 07-10-17 00:00 557206-046 Trench #5 (8') S 07-10-17 00:00 Not Analyzed Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #5 (14')	S	07-10-17 00:00		557206-033
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Trench #5 (8') S 07-10-17 00:00 Not Analyzed Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (4') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #7 (0-1')	S	07-10-17 00:00		557206-041
Trench #5 (10') S 07-10-17 00:00 Not Analyzed Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (4') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #7 (8')	S	07-10-17 00:00		557206-046
Trench #6 (1') S 07-10-17 00:00 Not Analyzed Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (4') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #5 (8')	S	07-10-17 00:00		Not Analyzed
Trench #6 (2') S 07-10-17 00:00 Not Analyzed Trench #6 (4') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #5 (10')	S	07-10-17 00:00		Not Analyzed
Trench #6 (4') S 07-10-17 00:00 Not Analyzed Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed Not Analyzed Not Analyzed	Trench #6 (1')	S	07-10-17 00:00		Not Analyzed
Trench #6 (6') S 07-10-17 00:00 Not Analyzed Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #6 (2')	S	07-10-17 00:00		Not Analyzed
Trench #6 (8') S 07-10-17 00:00 Not Analyzed	Trench #6 (4')	S	07-10-17 00:00		Not Analyzed
·					
Trench #7 (1') S 07-10-17 00:00 Not Analyzed	Trench #6 (8')	S	07-10-17 00:00		Not Analyzed
	Trench #7 (1')	S	07-10-17 00:00		Not Analyzed



Sample Cross Reference 557206



Tetra Tech- Midland, Midland, TX

Beowulf 33 State Com 601H

Trench #7 (2')	
Trench #7 (4')	
Trench #7 (6')	

S	07-10-17 00:00	Not Analyzed
S	07-10-17 00:00	Not Analyzed
S	07-10-17 00:00	Not Analyzed

CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: Beowulf 33 State Com 601H

Project ID: Report Date: 14-JUL-17
Work Order Number(s): 557206

Report Date: 07/11/2017

Sample receipt non conformances and comments:

07/12/17: Per Jeanne Finch, run Chlorides that were originally marked on the COC on hold.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3022018 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3022023 Inorganic Anions by EPA 300/300.1

Lab Sample ID 557206-005 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 557206-001, -005, -006, -011, -012, -017, -018, -024, -025, -033, -034, -040, -041, -046.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 14-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0	001	557206-0	002	557206-0	003	557206-0	04	557206-0	005	557206-	006
Analysis Dogwood	Field Id:	Trench #1 (0-1')	Trench #1	(2')	Trench #1	(4')	Trench #1	(6')	Trench #1	(8')	Trench #2	(0-1')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	,	SOIL	
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 (00:00	Jul-10-17 0	00:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17	00:00
BTEX by EPA 8021B	Extracted:	Jul-11-17 1	6:00							Jul-11-17	16:00	Jul-11-17	16:00
	Analyzed:	Jul-11-17 1	7:44							Jul-11-17	18:00	Jul-12-17	07:39
	Units/RL:	mg/kg	RL							mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Toluene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Ethylbenzene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
m,p-Xylenes		< 0.00398	0.00398							< 0.00401	0.00401	< 0.00702	0.00702
o-Xylene		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Total Xylenes		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Total BTEX		< 0.00199	0.00199							< 0.00200	0.00200	< 0.00351	0.00351
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-11-17 1	Jul-11-17 17:00		3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17	17:00	Jul-11-17	17:00
	Analyzed:	Jul-11-17 1	8:00	Jul-12-17 1	4:35	Jul-12-17 1	4:58	Jul-12-17 1	5:14	Jul-11-17	17:37	Jul-11-17	18:08
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1540	24.6	16.4	5.00	17.9	5.00	18.4	5.00	107	4.93	781	4.96
TPH By SW8015 Mod	Extracted:	Jul-11-17 1	1:00							Jul-11-17	11:00	Jul-11-17	11:00
	Analyzed:	Jul-11-17 1	3:22							Jul-11-17	14:23	Jul-11-17	14:44
	Units/RL:	mg/kg	RL							mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0							<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		21.2	15.0							<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		<15.0	15.0							<15.0	15.0	<15.0	15.0
Total TPH		21.2	15.0							<15.0	15.0	<15.0	15.0

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 14-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0	007	557206-0	800	557206-0	09	557206-0	10	557206-0	011	557206-	012
Analysis Pagyastad	Field Id:	Trench #2	(1')	Trench #2	(2')	Trench #2	(4')	Trench #2	(6')	Trench #2	(8')	Trench #3	(0-1')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 (00:00	Jul-10-17 0	0:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17	00:00
BTEX by EPA 8021B	Extracted:									Jul-11-17 1	6:00	Jul-11-17	16:00
	Analyzed:									Jul-12-17 (7:56	Jul-11-17	18:48
	Units/RL:									mg/kg	RL	mg/kg	RL
Benzene										< 0.00344	0.00344	< 0.00202	0.00202
Toluene										< 0.00344	0.00344	< 0.00202	0.00202
Ethylbenzene										< 0.00344	0.00344	< 0.00202	0.00202
m,p-Xylenes										< 0.00687	0.00687	< 0.00404	0.00404
o-Xylene										< 0.00344	0.00344	< 0.00202	0.00202
Total Xylenes										< 0.00344	0.00344	< 0.00202	0.00202
Total BTEX										< 0.00344	0.00344	< 0.00202	0.00202
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17 1	7:00	Jul-11-17	17:00
	Analyzed:	Jul-12-17 1	5:21	Jul-12-17 1	5:29	Jul-12-17 1	6:06	Jul-12-17 1	5:13	Jul-11-17 1	8:16	Jul-11-17	18:23
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1150	5.00	6.01	5.00	6.13	5.00	< 5.00	5.00	14.3	4.98	2600	25.0
TPH By SW8015 Mod	Extracted:									Jul-11-17 1	1:00	Jul-11-17	11:00
	Analyzed:									Jul-11-17 1	5:04	Jul-11-17	15:25
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<14.9	14.9	<15.0	15.0
Diesel Range Organics (DRO)										<14.9	14.9	<15.0	15.0
Oil Range Hydrocarbons (ORO)										<14.9	14.9	<15.0	15.0
Total TPH										<14.9	14.9	<15.0	15.0

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

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Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 14-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0	013	557206-0	014	557206-0	15	557206-0	16	557206-0	017	557206-	018
Analysis Dogwoods	Field Id:	Trench #3	(1')	Trench #3	(2')	Trench #3	(4')	Trench #3	(6')	Trench #3	8 (8')	Trench #4	(0-1')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL	,	SOIL		SOIL		SOIL		SOIL	_
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 (00:00	Jul-10-17 0	0:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17	00:00
BTEX by EPA 8021B	Extracted:									Jul-11-17	16:00	Jul-11-17	16:00
	Analyzed:									Jul-11-17	19:05	Jul-11-17	19:20
	Units/RL:									mg/kg	RL	mg/kg	RL
Benzene										< 0.00200	0.00200	< 0.00201	0.00201
Toluene										< 0.00200	0.00200	< 0.00201	0.00201
Ethylbenzene										< 0.00200	0.00200	< 0.00201	0.00201
m,p-Xylenes										< 0.00401	0.00401	< 0.00402	0.00402
o-Xylene										< 0.00200	0.00200	< 0.00201	0.00201
Total Xylenes										< 0.00200	0.00200	< 0.00201	0.00201
Total BTEX										< 0.00200	0.00200	< 0.00201	0.00201
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	3:30	Jul-12-17 1	13:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17	17:00	Jul-11-17	17:00
	Analyzed:	Jul-12-17 1	6:21	Jul-12-17 1	16:29	Jul-12-17 1	6:37	Jul-12-17 1	6:44	Jul-11-17	18:46	Jul-11-17	18:54
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		2750	25.0	67.3	5.00	7.90	5.00	6.39	5.00	11.8	4.94	3830	24.9
TPH By SW8015 Mod	Extracted:									Jul-11-17	11:00	Jul-11-17	11:00
	Analyzed:									Jul-11-17	15:46	Jul-11-17	16:06
	Units/RL:									mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)										<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)				<u> </u>		<u> </u>		<u> </u>		<15.0	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		·		·		·		·		<15.0	15.0	<15.0	15.0
Total TPH										<15.0	15.0	<15.0	15.0

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 14-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0	19	557206-0	20	557206-0	21	557206-0)22	557206-0)23	557206-0	024
A malania Damanda I	Field Id:	Trench #4	(1')	Trench #4	(2')	Trench #4	(4')	Trench #4	(6')	Trench #4	(8')	Trench #4	(10')
Analysis Requested	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 0	0:00	Jul-10-17 0	0:00	Jul-10-17 (00:00	Jul-10-17 (00:00	Jul-10-17	00:00
BTEX by EPA 8021B	Extracted:											Jul-11-17	16:00
	Analyzed:											Jul-11-17	19:36
	Units/RL:											mg/kg	RL
Benzene												< 0.00198	0.00198
Toluene												< 0.00198	0.00198
Ethylbenzene												< 0.00198	0.00198
m,p-Xylenes												< 0.00396	0.00396
o-Xylene												< 0.00198	0.00198
Total Xylenes												< 0.00198	0.00198
Total BTEX												< 0.00198	0.00198
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-11-17	17:00
	Analyzed:	Jul-12-17 1	7:07	Jul-12-17 1	7:15	Jul-12-17 1	7:38	Jul-12-17 1	7:46	Jul-12-17 1	7:53	Jul-11-17	19:02
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		3080	25.0	1380	25.0	252	4.95	35.9	4.94	108	4.91	26.8	4.99
TPH By SW8015 Mod	Extracted:											Jul-11-17	11:00
	Analyzed:											Jul-11-17	16:27
	Units/RL:											mg/kg	RL
Gasoline Range Hydrocarbons (GRO)												<15.0	15.0
Diesel Range Organics (DRO)												<15.0	15.0
Oil Range Hydrocarbons (ORO)												<15.0	15.0
Total TPH												<15.0	15.0

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H



Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 14-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0)25	557206-0	26	557206-0)27	557206-0	28	557206-0)29	557206-0)32
	Field Id:	Trench #5 (0-1')	Trench #5	(1)	Trench #5	(2')	Trench #5	(4')	Trench #5	(6')	Trench #5	(12')
Analysis Requested	Depth:		,		(-)		(-)		()				()
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		Jul-10-17 0		Jul-10-17 0	0.00	Jul-10-17 0	10.00	Jul-10-17 0	0.00	Jul-10-17 (Jul-10-17 0	
	Sampled:	Jui-10-17 C	0:00	Jui-10-1 / 0	0:00	Jui-10-17 C	0:00	Jui-10-17 C	0:00	Jui-10-17 (0:00	Jui-10-17 C	0:00
BTEX by EPA 8021B	Extracted:	Jul-11-17 1	6:00										
	Analyzed:	Jul-11-17 1	9:53										
	Units/RL:	mg/kg	RL										
Benzene			0.00201										
Toluene		< 0.00201	0.00201										
Ethylbenzene		< 0.00201	0.00201										
m,p-Xylenes		< 0.00402	0.00402										
o-Xylene		< 0.00201	0.00201										
Total Xylenes			0.00201										
Total BTEX		< 0.00201	0.00201										
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-11-17 1	7:00	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-12-17 1	3:30	Jul-13-17 1	2:30
	Analyzed:	Jul-11-17 1	9:09	Jul-12-17 1	8:01	Jul-12-17 1	8:09	Jul-12-17 1	8:16	Jul-12-17 1	8:24	Jul-13-17 1	8:06
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5030	49.5	3370	24.8	2340	24.8	875	5.00	399	4.99	568	4.96
TPH By SW8015 Mod	Extracted:	Jul-11-17 1	1:00		ĺ		ĺ						
	Analyzed:	Jul-11-17 1	6:47										
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)	·	<15.0	15.0										
Diesel Range Organics (DRO)		187	15.0										
Oil Range Hydrocarbons (ORO)		<15.0	15.0										
Total TPH		187	15.0										

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Tetra Tech- Midland, Midland, TX

Project Name: Beowulf 33 State Com 601H

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Project Id: Contact:

Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Tue Jul-11-17 10:37 am

Report Date: 14-JUL-17

Project Manager: Kelsey Brooks

	Lab Id:	557206-0)33	557206-0	34	557206-0)40	557206-	041	557206-0	046	
Analysis Requested	Field Id:	Trench #5	(14')	Trench #6 (0-1')	Trench #6	(10')	Trench #7	(0-1')	Trench #7	(8')	
Anatysis Requested	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL	,	SOIL		
	Sampled:	Jul-10-17 0	00:00	Jul-10-17 0	0:00	Jul-10-17 0	00:00	Jul-10-17	00:00	Jul-10-17 (00:00	
BTEX by EPA 8021B	Extracted:	Jul-11-17 1	16:00	Jul-11-17 1	6:00	Jul-11-17 1	6:00	Jul-11-17	16:00	Jul-11-17 1	16:00	
	Analyzed:	Jul-11-17 2	20:41	Jul-12-17 0	8:12	Jul-11-17 1	7:27	Jul-11-17	21:14	Jul-11-17 2	21:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00202	0.00202	< 0.00337	0.00337	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	
Toluene		< 0.00202	0.00202	< 0.00337	0.00337	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	
Ethylbenzene		< 0.00202	0.00202	< 0.00337	0.00337	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	
m,p-Xylenes		< 0.00404	0.00404	< 0.00673	0.00673	< 0.00401	0.00401	< 0.00401	0.00401	< 0.00398	0.00398	
o-Xylene		< 0.00202	0.00202	< 0.00337	0.00337	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	
Total Xylenes		< 0.00202	0.00202	< 0.00337	0.00337	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	
Total BTEX		< 0.00202	0.00202	< 0.00337	0.00337	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00199	0.00199	
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-11-17 1	17:00	Jul-11-17 1	7:00	Jul-11-17 1	7:00	Jul-11-17	17:00	Jul-11-17 1	17:00	
	Analyzed:	Jul-11-17 1	19:17	Jul-11-17 1	9:48	Jul-11-17 1	9:25	Jul-11-17	19:55	Jul-11-17 2	20:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		98.5	4.97	2030	24.9	9.98	4.99	1200	24.9	44.0	4.99	
TPH By SW8015 Mod	Extracted:	Jul-11-17 1	11:00	Jul-11-17 1	1:00	Jul-11-17 1	1:00	Jul-11-17	11:00	Jul-11-17 1	11:00	
	Analyzed:	Jul-11-17 1	17:07	Jul-11-17 1	8:07	Jul-11-17 1	8:26	Jul-11-17	18:46	Jul-11-17 1	19:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Diesel Range Organics (DRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	66.0	15.0	<15.0	15.0	
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	
Total TPH		<15.0	15.0	<14.9	14.9	<15.0	15.0	66.0	15.0	<15.0	15.0	

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Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206,

Sample: 557206-001 / SMP

Project ID:

Lab Batch #: 3022004 Batch: I Inite Date Analyzed: 07/11/17 13:22

Matrix: Soil 1

Units:	mg/kg	Date Analyzed: 07/11/17 13:22	SURROGATE RECOVERY STUDY				
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chloroocta	ane	-	114	99.8	114	70-135	
o-Terphenyl			58.7	49.9	118	70-135	

Lab Batch #: 3022004 Sample: 557206-005 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 14:23 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Flags Found Limits Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 111 99.7 111 70-135 o-Terphenyl 57.0 49.9 114 70-135

Lab Batch #: 3022004 Sample: 557206-006 / SMP Batch: Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 14:44 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99.7	109	70-135	
o-Terphenyl	55.8	49.9	112	70-135	

Lab Batch #: 3022004 Sample: 557206-011 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 15:04	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorood	ctane		111	99.6	111	70-135		
o-Terphen	yl		56.6	49.8	114	70-135		

Lab Batch #: 3022004 Sample: 557206-012 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 0//11/17 15:25	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
		Analytes			[D]				
1-Chloroocta	ane		127	99.9	127	70-135			
o-Terphenyl			64.9	50.0	130	70-135			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206,

Project ID:

Lab Batch #: 3022004 **Sample:** 557206-017 / SMP Batch: Data Analyzadi 07/11/17 15:46 T T-- 24 -- -... _ /1_ _

Matrix: Soil

Units: mg/kg Date Analyzed: 0//11/1/15:46	SURROGATE RECOVERY STUDY					
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
Analytes			[D]			
1-Chlorooctane	120	99.9	120	70-135		
o-Terphenyl	62.1	50.0	124	70-135		

Lab Batch #: 3022004 Sample: 557206-018 / SMP Batch: 1 Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/11/17 16:06 SURROGATE RECOVERY STUDY **Amount** True Control TPH By SW8015 Mod Flags Found Limits Amount Recovery [A] [B] %R %R [D] **Analytes** 1-Chlorooctane 113 100 113 70-135 o-Terphenyl 58.7 50.0 117 70-135

Lab Batch #: 3022004 Sample: 557206-024 / SMP Matrix: Soil Batch: 1

Units: mg/kg Date Analyzed: 07/11/17 16:27 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	99.8	112	70-135	
o-Terphenyl	57.9	49.9	116	70-135	

Lab Batch #: 3022004 Sample: 557206-025 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 16:47	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooc	ctane		112	99.9	112	70-135		
o-Terpheny	yl		57.4	50.0	115	70-135		

Lab Batch #: 3022004 **Sample:** 557206-033 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 17:07	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		110	99.8	110	70-135		
o-Terpheny	1		57.5	49.9	115	70-135		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206,

Sample: 557206-040 / SMP

Project ID:

Lab Batch #: 3022018 T T-- 24 -- ma/lea Date Analyzed: 07/11/17 17:27

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 07/1	1/17 17:27	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
Analytes			[2]			
1,4-Difluorobenzene	0.0255	0.0300	85	80-120		
4-Bromofluorobenzene	0.0344	0.0300	115	80-120		

Lab Batch #: 3022018 Sample: 557206-001 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 17:44 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0311 0.0300 104 80-120 4-Bromofluorobenzene 0.0295 0.0300 98 80-120

Lab Batch #: 3022018 Sample: 557206-005 / SMP Batch: Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/11/17 18:00 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0349	0.0300	116	80-120	

Lab Batch #: 3022004 Sample: 557206-034 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 18:07	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	ctane		111	99.6	111	70-135			
o-Terpheny	yl		57.3	49.8	115	70-135			

Lab Batch #: 3022004 **Sample:** 557206-040 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 18:26	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	tane		114	99.7	114	70-135			
o-Terpheny	1		59.1	49.9	118	70-135			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, **Lab Batch #:** 3022004

Sample: 557206-041 / SMP

Project ID:

Units: mø/kø **Date Analyzed:** 07/11/17 18:46

Matrix: Soil Batch:

Units:	mg/kg	Date Analyzed: 07/11/17 18:46	SURROGATE RECOVERY STUDY					
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags	
1-Chlorooct	ane		112	99.7	112	70-135		
o-Terphenyl	1		57.9	49.9	116	70-135		

Lab Batch #: 3022018 Sample: 557206-012 / SMP Batch: Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/11/17 18:48 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0268 0.0300 89 80-120 4-Bromofluorobenzene 0.0292 0.0300 97 80-120

Lab Batch #: 3022018 Sample: 557206-017 / SMP Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 07/11/17 19:05 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0313	0.0300	104	80-120	
4-Bromofluorobenzene	0.0329	0.0300	110	80-120	

Lab Batch #: 3022004 Sample: 557206-046 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 19:06	SURROGATE RECOVERY STUDY						
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	ctane		108	99.8	108	70-135			
o-Terpheny	yl		56.2	49.9	113	70-135			

Lab Batch #: 3022018 Sample: 557206-018 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 19:20	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorol	benzene	1110119 000	0.0296	0.0300	99	80-120			
4-Bromofluo	probenzene		0.0343	0.0300	114	80-120			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206,

Sample: 557206-024 / SMP

Project ID:

Lab Batch #: 3022018 I Inite mø/kø Date Analyzed: 07/11/17 19:36

Matrix: Soil Batch: 1

Units:	mg/kg	Date Analyzed: 07/11/17 19:36	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluore	obenzene		0.0328	0.0300	109	80-120			
4-Bromoflu	orobenzene		0.0293	0.0300	98	80-120			

Lab Batch #: 3022018 Sample: 557206-025 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/11/17 19:53 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0317 0.0300 106 80-120 4-Bromofluorobenzene 0.0274 0.0300 91 80-120

Lab Batch #: 3022018 Sample: 557206-033 / SMP Batch: Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/11/17 20:41 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0250	0.0300	83	80-120	
4-Bromofluorobenzene	0.0260	0.0300	87	80-120	

Lab Batch #: 3022018 Sample: 557206-041 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 21:14	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluor	obenzene		0.0259	0.0300	86	80-120			
4-Bromoflu	iorobenzene		0.0341	0.0300	114	80-120			

Lab Batch #: 3022018 Sample: 557206-046 / SMP Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 21:30	SURROGATE RECOVERY STUDY						
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluoro	obenzene	Analytes	0.0247	0.0300	82	80-120			
4-Bromoflu	orobenzene		0.0253	0.0300	84	80-120			

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206,

Project ID:

Lab Batch #: 3022018 Matrix: Soil **Sample:** 557206-006 / SMP Batch: 1 I Inite

Units:	mg/kg	Date Analyzed: 07/12/17 07:39	SURROGATE RECOVERY STUDY					
	ВТЕ	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags	
		Analytes			[D]			
1,4-Difluor	obenzene		0.0320	0.0300	107	80-120		
4-Bromoflu	iorobenzene		0.0305	0.0300	102	80-120		

Lab Batch #: 3022018 Sample: 557206-011 / SMP Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 07/12/17 07:56 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0288 0.0300 96 80-120 4-Bromofluorobenzene 0.0296 0.0300 99 80-120

Lab Batch #: 3022018 Sample: 557206-034 / SMP Batch: Matrix: Soil

Units: mg/kg **Date Analyzed:** 07/12/17 08:12 SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0249	0.0300	83	80-120	
4-Bromofluorobenzene	0.0278	0.0300	93	80-120	

Lab Batch #: 3022004 **Sample:** 727483-1-BLK / BLK Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/11/17 12:00	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooc	etane		114	100	114	70-135					
o-Terpheny	yl		59.6	50.0	119	70-135					

Lab Batch #: 3022018 **Sample:** 727492-1-BLK / BLK Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/11/17 17:11	SURROGATE RECOVERY STUDY							
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1,4-Difluorobe	enzene	Marytes	0.0297	0.0300	99	80-120				
4-Bromofluoro	obenzene		0.0316	0.0300	105	80-120				

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206, **Lab Batch #:** 3022004

Sample: 727483-1-BKS / BKS

Project ID:

Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 07/11/17 12:41	SU	SURROGATE RECOVERY STUDY								
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
Analytes			[2]							
1-Chlorooctane	123	100	123	70-135						
o-Terphenyl	62.5	50.0	125	70-135						

Lab Batch #: 3022018 **Sample:** 727492-1-BKS / BKS Batch: 1 Matrix: Solid

Units: mg/kg **Date Analyzed:** 07/11/17 15:46 SURROGATE RECOVERY STUDY **Amount** True Control BTEX by EPA 8021B Found Limits Amount Recovery Flags [A] [B] %R %R [D] **Analytes** 1,4-Difluorobenzene 0.0240 0.0300 80 80-120 4-Bromofluorobenzene 0.0300 0.026689 80-120

Lab Batch #: 3022004 **Sample:** 727483-1-BSD / BSD Matrix: Solid Batch:

Units: mg/kg Date Analyzed: 07/11/17 13:02 SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	100	129	70-135	
o-Terphenyl	62.1	50.0	124	70-135	

Lab Batch #: 3022018 **Sample:** 727492-1-BSD / BSD Batch: Matrix: Solid

Units:	mg/kg	Date Analyzed: 07/11/17 16:02	SURROGATE RECOVERY STUDY									
	ВТЕ	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1,4-Difluor	obenzene		0.0307	0.0300	102	80-120						
4-Bromoflu	orobenzene		0.0353	0.0300	118	80-120						

Lab Batch #: 3022004 Sample: 557206-001 S / MS Batch: Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17 13:42	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags				
1-Chlorooct	ane		111	100	111	70-135					
o-Terpheny	1		57.1	50.0	114	70-135					

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Beowulf 33 State Com 601H

Work Orders: 557206,

Project ID:

Matrix: Soil

Lab Batch #: 3022018 **Sample:** 557206-040 S / MS Batch:

Units: mg	/kg Date Analyzed: 0//11/17 16:18	SU	RROGATE RI	ECOVERY S	STUDY	
	BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzen	e	0.0308	0.0300	103	80-120	
4-Bromofluorobenz	zene	0.0345	0.0300	115	80-120	

Lab Batch #: 3022004 **Sample:** 557206-001 SD / MSD Batch: 1 Matrix: Soil

Units:	mg/kg	Date Analyzed: 07/11/17/14:03	SURROGATE RECOVERY STUDY								
	ТРН	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags				
		Analytes			[D]						
1-Chloroocta	ane		129	99.8	129	70-135					
o-Terphenyl			64.4	49.9	129	70-135					

Lab Batch #: 3022018 **Sample:** 557206-040 SD / MSD Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 07/11/17 16:34 SURROGATE RECOVERY STUDY Amount True Control BTEX by EPA 8021B **Found** Limits Flags Amount Recovery [B] %R %R [A] [D] **Analytes** 1,4-Difluorobenzene 0.0329 0.0300 110 80-120 4-Bromofluorobenzene 0.0334 0.0300 111 80-120

Surrogate Recovery [D] = 100 * A / B

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #: 557206

Project ID:

Analyst:

Units:

ALJ

mg/kg

Date Prepared: 07/11/2017

Batch #: 1

Date Analyzed: 07/11/2017

Lab Batch ID: 3022018

Sample: 727492-1-BKS

Matrix: Solid

BLANK /BLANK SPIKE	/ BLANK SPIKE DUPLICATE	RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	< 0.00200	0.100	0.115	115	0.0998	0.121	121	5	70-130	35	
Toluene	< 0.00200	0.100	0.111	111	0.0998	0.108	108	3	70-130	35	
Ethylbenzene	< 0.00200	0.100	0.115	115	0.0998	0.118	118	3	71-129	35	
m,p-Xylenes	< 0.00401	0.200	0.206	103	0.200	0.205	103	0	70-135	35	
o-Xylene	< 0.00200	0.100	0.114	114	0.0998	0.120	120	5	71-133	35	

MGO **Date Prepared:** 07/11/2017 **Date Analyzed:** 07/11/2017 **Analyst:**

Lab Batch ID: 3022023 **Sample:** 727493-1-BKS **Batch #:** 1 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	< 5.00	250	258	103	250	254	102	2	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



BS / BSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #: 557206

Project ID:

Analyst: MGO

Date Prepared: 07/12/2017

Date Analyzed: 07/12/2017

Lab Batch ID: 3022109

Sample: 727553-1-BKS

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<5.00	250	258	103	250	259	104	0	90-110	20	

MGO **Date Prepared:** 07/13/2017 **Date Analyzed:** 07/13/2017 **Analyst:**

Lab Batch ID: 3022302 **Sample:** 727632-1-BKS Matrix: Solid

mo/ko **Units:**

Batch #: 1

Batch #: 1

iits.	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA	300/300.1 Blank Sample Result [A]		Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<5.00	250	255	102	250	256	102	0	90-110	20	

Date Prepared: 07/11/2017 **Date Analyzed:** 07/11/2017 Analyst: ARM

Lab Batch ID: 3022004 **Sample:** 727483-1-BKS **Batch #:** 1 Matrix: Solid

Units: mg/kg BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1150	115	1000	1100	110	4	70-135	35	
Diesel Range Organics (DRO)	<15.0	1000	1120	112	1000	1100	110	2	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



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Project Name: Beowulf 33 State Com 601H

Work Order #:

557206

3022018

QC- Sample ID: 557206-040 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

07/11/2017

Date Prepared: 07/11/2017

Analyst: ALJ

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00202	0.101	0.103	102	0.100	0.119	119	14	70-130	35	
Toluene	< 0.00202	0.101	0.0942	93	0.100	0.103	103	9	70-130	35	
Ethylbenzene	< 0.00202	0.101	0.101	100	0.100	0.118	118	16	71-129	35	
m,p-Xylenes	< 0.00403	0.202	0.181	90	0.200	0.203	102	11	70-135	35	
o-Xylene	< 0.00202	0.101	0.0996	99	0.100	0.110	110	10	71-133	35	

Lab Batch ID:

3022023

QC- Sample ID: 557206-005 S

Batch #:

Matrix: Soil

Date Analyzed:

07/11/2017

Date Prepared: 07/11/2017

Analyst: MGO

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	Kesuit [F]	[G]	70	/0K	70KI D	
Chloride	107	247	378	110	247	387	113	2	90-110	20	X

Lab Batch ID:

3022023

QC- Sample ID: 557206-040 S

Batch #:

Matrix: Soil

Date Analyzed:

07/11/2017

Date Prepared: 07/11/2017

Analyst: MGO

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]	[0]	[D]	[E]	result [1]	[G]	,•	7014	/ VICE	
Chloride	9.98	250	284	110	250	286	110	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Page 23 of 36

Final 1.002



Form 3 - MS / MSD Recoveries



Page 99 of 137

Project Name: Beowulf 33 State Com 601H

Work Order #:

557206 3022109

QC- Sample ID: 557206-002 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

07/12/2017

Date Prepared: 07/12/2017

Analyst: MGO

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	%R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	16.4	250	273	103	250	275	103	1	90-110	20	

Lab Batch ID:

3022109

QC- Sample ID: 557206-016 S

Batch #:

Matrix: Soil

Date Analyzed:

07/12/2017

Date Prepared: 07/12/2017

Analyst: MGO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	6.39	250	270	105	250	269	105	0	90-110	20	

Lab Batch ID:

3022302

QC- Sample ID: 557114-011 S

Batch #:

Matrix: Soil

Date Analyzed:

07/13/2017

Date Prepared: 07/13/2017

Analyst: MGO

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

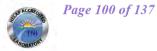
1

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R	Spike Added	Duplicate Spiked Sample		RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	Added [B]	[C]	%K [D]	[E]	Result [F]	%R [G]	70	%K	%KPD	
Chloride	99.7	249	362	105	249	364	106	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E



Form 3 - MS / MSD Recoveries



Project Name: Beowulf 33 State Com 601H

Work Order #: 55'

557206 3022302

QC- Sample ID: 557114-018 S

Batch #:

Matrix: Soil

Project ID:

Lab Batch ID: Date Analyzed:

07/13/2017

Date Prepared: 07/13/2017

Analyst: MGO

Reporting Units:

mg/kg

1/ Allalyst: MGC

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

In	organic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]		Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride		67.3	248	338	109	248	346	112	2	90-110	20	X

Lab Batch ID: 3022004 **QC- Sample ID:** 557206-001 S

Batch #: 1 Matrix: Soil

Date Prepared: 07/11/2017

Analyst: ARM

RM

Date Analyzed: Reporting Units:

mg/kg

07/11/2017

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1030	103	998	1060	106	3	70-135	35	
Diesel Range Organics (DRO)	21.2	1000	1000	98	998	1070	105	7	70-135	35	

$$\label{eq:matrix_problem} \begin{split} & \text{Matrix Spike Percent Recovery} \quad [D] = 100*(C-A)/B \\ & \text{Relative Percent Difference} \quad RPD = 200*|(C-F)/(C+F)| \end{split}$$

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Tetra Tech, Inc. Control of Co		Relinquished by:		Relinguished by:	Relinquished by:										(LAB USE)	LAB#		Comments:	Comments.	Receiving Labor	state)	Project Name:	Cilett Name:	1
Site Manager:		Date:	C vaie.	May row 1	rench #2 (6') Date:	Trench #2 (4')	Trench #2 (2')	Trench #2 (1')	Trench #2 (0-1')	Trench #1 (8')	Trench #1 (6')	Trench #1 (4')	Trench #1 (2 ')	Trench #1 (0-1')		SAMPLE IDENTIFICATION		Kush			(county,		108711	Tetra Tech, Inc.
Name Name Street Stree	ORIGINAL COP	Received by:	Received by:	Malane	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017	7/10/2017		YEAR: 2017	SAMPLING		Sampler Signature:		Project #:		Site Manager:	
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EOG DET	Pag	Tetra Tech, Inc.		4000 N. 401 N. Te	4000 N. Big Spring Street, Ste 401 Midland, Texas 79705 Tel (422) 682-4559		
Received by:	Client Name:	75/1	Site Manager:				1
Coounty, Lea County, New Mexico	Project Name:	1131301111		IKE I AVA	rez		
County, Lea County, New Mexico Project #:		Beowulf 33 State Com 601H					
Tetra Tech	t Location:		Project #:			- 1	
Xenco Midland Tx Sampler Signature:	Invoice to:	Tetra Tech					
SAMPLE IDENTIFICATION	Receiving Laboratory:	:	Sampler Signature:				
SAMPLE IDENTIFICATION SAMPLING MATRIX		Xenco Midland Tx	Sampler Signature:				
SAMPLE IDENTIFICATION SAMPLING MATRIX	Comments:	Kush				- 1	
Trench #1 (0-1') Trench #1 (2') Trench #1 (2') Trench #1 (4') Trench #1 (8') Trench #1 (8') Trench #2 (1') Trench #2 (1') Trench #2 (2') Trench #2 (2') Trench #2 (6') Trench #2 (6') Date: Time: Time: Received by: Date Time: Date Time: Received by: Date Date			SAMPLING	MATRIX	PRESERVA: METHOD	INE I	RS (N)
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Released to Imaging: 9/19/2022 12:59:47

4 of

Final 1.002

Project #: Sampler Signature:	Project #: Sampler Signature:	Project #:	Project #:	Project #:	Project #:
Sampler Signature:	Sampler Signature:	Sampler Signature:			
		oumprot orginature.	RO - MRQ	RO - MRQ	RO - MRQ
1	PRESERVATIVE	PRESERVATIVE	PRESERVATIVE TEX 8260B to C35) D - DRO - ORO B Ba Cd Cr Pb S	PRESSERVATIVE TEX 8260B to C35) O - DRO - ORO BBa Cd Cr Pb BBa Cd Cr Pb	TEX 8260B to C35) D - DRO - ORC Ba Cd Cr Pb ss Ba Cd Cr Pb
WATER SOIL HCL HNO3 ICE	WATER OIL PRESERVATIVE METHOD DE ON O	WATER SOIL HCL HNO3 ICE None # CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 82	WATER SOIL HCL HNO3 ICE None # CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 8021B BTEX 8021B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRC PAH 8270C Total Metals Ag As Ba Cd	WATER SOIL HCL HNO3 ICE None # CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 8021B BTEX 8021B TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles RCI	WATER SOIL HCL HNO3 ICE None # CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 82 TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624
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10 E S		# CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 82	# CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 82 TPH TX1005 (Ext to C35) TPH 8015M (GRO - DRO PAH 8270C Total Metals Ag As Ba Cd (# CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 82 TPH TX1005 (Ext to C35) CPH 8015M (GRO - DRO PAH 8270C Total Metals Ag As Ba Cd of TCLP Metals Ag As Ba Cd TCLP Semi Volatiles RCI	# CONTAINERS FILTERED (Y/N) BTEX 8021B BTEX 82 TPH TX1005 (Ext to C35) PH 8015M (GRO - DRO PAH 8270C Total Metals Ag As Ba Cd TCLP Metals Ag As Ba Cd TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/6 PCB's 8082 / 608 NORM



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 07/11/2017 10:37:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 557206

Temperature Measuring device used: R8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	5	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seal present on shipping container/ cooler?	No	
#5 *Custody Seals intact on shipping container/ cooler?	N/A	
#6 Custody Seals intact on sample bottles?	N/A	
#7 *Custody Seals Signed and dated?	N/A	
#8 *Chain of Custody present?	Yes	
#9 Sample instructions complete on Chain of Custody?	Yes	
#10 Any missing/extra samples?	No	
#11 Chain of Custody signed when relinquished/ received?	Yes	
#12 Chain of Custody agrees with sample label(s)?	Yes	
#13 Container label(s) legible and intact?	Yes	
#14 Sample matrix/ properties agree with Chain of Custody?	Yes	
#15 Samples in proper container/ bottle?	Yes	
#16 Samples properly preserved?	Yes	
#17 Sample container(s) intact?	Yes	
#18 Sufficient sample amount for indicated test(s)?	Yes	
#19 All samples received within hold time?	Yes	
#20 Subcontract of sample(s)?	No	
#21 VOC samples have zero headspace?	N/A	

* Must be co	mpleted for after-hours de	livery of samples prior to pla	cing in the refrigerator
Analyst: ss		PH Device/Lot#:	
	Checklist completed by:	Maurel Synths Shawnee Smith	Date: <u>07/11/2017</u>
	Checklist reviewed by:	Mike Kimmel	Date: 07/11/2017

Analytical Report 557682

for Tetra Tech- Midland

Project Manager: Ike Tavarez
EOG- Beowulf 33 State Com 6
212C-MD-00902
18-JUL-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





18-JUL-17

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): 557682

EOG- Beowulf 33 State Com 6

Project Address: Lea County, New Mexico

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 557682. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 557682 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Koah

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 557682



Tetra Tech- Midland, Midland, TX

EOG- Beowulf 33 State Com 6

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Pasture Area (3'BEB) Center Sample	S	07-11-17 00:00		557682-001
Pasture Area South Sidewall Sample	S	07-11-17 00:00		557682-002
Pasture Area North Sidewall Sample	S	07-11-17 00:00		557682-003
Pasture Area East Sidewall Sample	S	07-11-17 00:00		557682-004
(Areas of T1, T2 & T3) South East Sidewall	S	07-12-17 00:00		557682-005
(Areas of T1, T2 & T3) South West Sidewall	S	07-12-17 00:00		557682-006
(Areas of T1, T2 & T3) North West Sidewal	S	07-12-17 00:00		557682-007
(Areas of T1, T2 & T3) North East Sidewall	S	07-12-17 00:00		557682-008
(Areas of T1, T2 & T3) East Sidewall Sampl	S	07-12-17 00:00		557682-009
(Areas of T1, T2 & T3) West Sidewall Samp	S	07-12-17 00:00		557682-010
(Areas of T1, T2 & T3) South Bottomhole Sa	S	07-12-17 00:00		557682-011
(Areas of T1, T2 & T3) Center Bottomhole S	S	07-12-17 00:00		557682-012
(Areas of T1, T2 & T3) North Bottomhole Sa	S	07-12-17 00:00		557682-013

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: EOG- Beowulf 33 State Com 6

 Project ID:
 212C-MD-00902
 Report Date:
 18-JUL-17

 Work Order Number(s):
 557682
 Date Received:
 07/17/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Contact:

Certificate of Analysis Summary 557682

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Beowulf 33 State Com 6

GORATOR

Project Id: 212C-MD-00902

Project Location: Lea County, New Mexico

Ike Tavarez

Date Received in Lab: Mon Jul-17-17 09:51 am

Report Date: 18-JUL-17 **Project Manager:** Kelsey Brooks

	Lab Id:	557682-0	01	557682-0	02	557682-0	03	557682-0	04	557682-0	05	557682-0	06
Analysis Requested	Field Id:	Pasture Area (3'BE	B) Center	Pasture Area Soutl	n Sidewall	Pasture Area Norti	h Sidewall	Pasture Area East S	Sidewall S	Areas of T1, T2 &	z T3) Soutl	Areas of T1, T2 &	T3) South
Anaiysis Requesieu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-11-17 0	0:00	Jul-11-17 0	0:00	Jul-11-17 0	0:00	Jul-11-17 0	0:00	Jul-12-17 0	0:00	Jul-12-17 00	0:00
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-17-17 1	Jul-17-17 12:30		2:30	Jul-17-17 1	2:30	Jul-17-17 1	2:30	Jul-17-17 1	2:30	Jul-17-17 12	2:30
	Analyzed:	Jul-17-17 1	4:05	Jul-17-17 1	4:28	Jul-17-17 1	4:36	Jul-17-17 1	4:44	Jul-17-17 1	4:51	Jul-17-17 15	5:14
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.96	4.96	13.2	4.93	5.22	4.96	14.3	4.94	56.7	4.98	<4.97	4.97

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Mus front



Certificate of Analysis Summary 557682

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Beowulf 33 State Com 6



Project Id: 212C-MD-00902

Contact: Ike Tavarez

Project Location: Lea County, New Mexico

Date Received in Lab: Mon Jul-17-17 09:51 am

Report Date: 18-JUL-17 **Project Manager:** Kelsey Brooks

	Lab Id:	557682-0	07	557682-0	08	557682-0	09	557682-0	10	557682-0	11	557682-0	012
Analysis Requested	Field Id:	(Areas of T1, T2 &	T3) Nor	Areas of T1, T2 &	T3) North	(Areas of T1, T2 &	t T3) East	(Areas of T1, T2 &	t T3) West	Areas of T1, T2 &	t T3) South	Areas of T1, T2 &	T3) Cente
Anatysis Requestea	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jul-12-17 0	0:00	Jul-12-17 0	0:00	Jul-12-17 0	0:00	Jul-12-17 0	0:00	Jul-12-17 (00:00	Jul-12-17 0	00:00
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-17-17 1	Jul-17-17 12:30		2:30	Jul-17-17 1	2:30	Jul-17-17 1	2:30	Jul-17-17 1	2:30	Jul-17-17 1	2:30
	Analyzed:	Jul-17-17 1	5:22	Jul-17-17 15:30		Jul-17-17 1	5:37	Jul-17-17 1	5:45	Jul-17-17 1	5:53	Jul-17-17 1	6:16
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride	loride 12.8 4.97		4.97	14.6	4.98	69.0	4.96	6.43	4.95	10.7	4.99	8.29	4.93

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Knis Roah

Kelsey Brooks Project Manager



Contact:

Certificate of Analysis Summary 557682

Tetra Tech- Midland, Midland, TX

Project Name: EOG- Beowulf 33 State Com 6



Project Id: 212C-MD-00902

Project Location: Lea County, New Mexico

Ike Tavarez

Date Received in Lab: Mon Jul-17-17 09:51 am

Report Date: 18-JUL-17 **Project Manager:** Kelsey Brooks

	Lab Id:	557682-013			
Analusia Daguastad	Field Id:	Areas of T1, T2 & T3) North			
Analysis Requested	Depth:				
	Matrix:	SOIL			
	Sampled:	Jul-12-17 00:00			
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-17-17 12:30			
	Analyzed:	Jul-17-17 16:23			
	Units/RL:	mg/kg RL			
Chloride		251 4.97			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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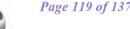
Mus Hoah

Kelsey Brooks



Flagging Criteria





- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800



BS / BSD Recoveries



Page 120 of 137

Project Name: EOG- Beowulf 33 State Com 6

Work Order #: 557682 Project ID: 212C-MD-00902

Analyst: MGO Date Prepared: 07/17/2017 Date Analyzed: 07/17/2017

Lab Batch ID: 3022477Sample: 727779-1-BKSBatch #: 1Matrix: Solid

U	I nits: mg/kg		BLAN	K/BLANK S	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	PΥ	
	Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
	Chloride	< 5.00	250	268	107	250	269	108	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Page 121 of 137

Project Name: EOG-Beowulf 33 State Com 6

Work Order #: 55768

557682 3022477

QC- Sample ID: 557682-001 S

Batch #:

Matrix: Soil

Project ID: 212C-MD-00902

Lab Batch ID: Date Analyzed:

07/17/2017

Date Prepared: 07/17/2017

Analyst: MGO

Reporting Units:

mg/kg

Analyst: MGC

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	[B]		[D]	[E]		[G]				
Chloride	<4.96	248	263	106	248	266	107	1	90-110	20	

Lab Batch ID: 3022477

QC- Sample ID: 557682-011 S

Batch #: 1

Matrix: Soil

Date Analyzed: Reporting Units: 07/17/2017

mg/kg

Date Prepared: 07/17/2017

Analyst: MGO

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	10.7	250	274	105	250	276	106	1	90-110	20	

by O	Belinquished by:	2022	Relinquished by:		Relinquished by:							-			(LAB USE)	LAB#		Comments:	Receiving Laboratory:	invoice to:	state)	Project Name:	Client Name:	Tal.	Midlysis ne
	Date: Time:	Date.	C Date: Time:	When FIT-IT 9: Ster	II Sar	T2 &	(Areas of T1, T2 & T3) North East Sidewall Sample	(Areas of T1, T2 & T3) North West Sidewall Sample	(Areas of T1, T2 & T3) South West Sidewall Sample	(Areas of T1, T2 & T3) South East Sidewall Sample	Pasture Area East Sidewall Sample	Pasture Area North Sidewall Sample	Pasture Area South Sidewall Sample	Pasture Area (3'BEB) Center Sample		SAMPLE IDENTIFICATION			Xenco Midland Tx	Tetra Tech	(county, Lea County, New Mexico	Beowulf 33 State Com 6	EOG	Tetra Tech, Inc.	e viialysis nequest of chain of custody Record
	Received by:	neceived by:	M CIVUU	MA OLU MARK	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/12/2017	7/11/2017	7/11/2017	7/11/2017	7/11/2017	DATE	YEAR: 2017	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
1	Date:	Date:	L	Date:	×	×	×	×	×	×	×	×	×	×	WATER SOIL HCL HNO ₃	3	MATRIX PRESERV		7		212C-MD-00902		Ike Tavarez	4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
Q	Time:	lime:	10.1	Time:	X 1 N	_	1		_	1	_	_		X 1N	ICE None # CONT		OD				902			treet, Ste 579705 559 946	
ELIVERID		Sample Temperature		LAB USE ONLY											BTEX 80 TPH TX TPH 801 PAH 827 Total Met	021B 1005 5M (0C als A	BTEX (Ext to C GRO - D	035) DRO - 0 Cd Cr F	RO - N	łg		(Circle or		2571	
FEDEX UPS	Rush Charges Authorized Special Report Limits or T	X RUSH: Same Day		REMARKS: STANDARD											TCLP Vo TCLP Se RCI GC/MS V GC/MS S PCB's 80	ol. 8	260B / 6 Vol. 827					Specify	ALYSIS RE	682	
Tracking #:	Rush Charges Authorized Special Report Limits or TRRP Report	(24 h) 48 hr		RD	×	×	×	×	×	×	×	×	×	×	NORM PLM (Astronomical Chloride Chloride General N Anion/Ca	Sı Wate	Ilfate r Chemi	-	e atta	ched li	st)	Method No.)			Page
Jan	aging: 9	72 hr		22 10	0.50	-17	PM						-		łold							_			1 of 2

ved by OCD: 3.	elinquished by	Relinquished by	muke	Aelinquished by:							(LAB USE)	LAB#		Comments:	Heceiving Laboratory:	invoice to:	state)	Project Name:	Clent Name:	Client Name	
	V: Date: Time:	y: Date: Time:	Commo 7/7-/7	V: Date: Time:				(Areas of T1, T2 & T3) North Bottomhole Sample (1.5' BEB)	(Areas of T1, T2 & T3) Center Bottomhole Sample (1.5' BEB)	(Areas of T1, T2 & T3) South Bottome Sample (1.5' BEB)		SAMPLE IDENTIFICATION			Xenco Midland Tx	Tetra Tech	Lea County, New Mexico		EOG	Tetra Tech, Inc.	Pag
ORIGINAL COPY	Donatical but	Received by:	Many of	Book ha				7/19/2017	7/12/2017	2017	DATE	YEAR: 2017	SAMPLING		Sampler Signature:		Project #:		Site Manager:		
Temp: S, G	П		1 1-17-17 G				>			×	WATER SOIL HCL HNO ₃ ICE None		MATRIX PRESERVATIVE			7	212C-MD-00902		lke Tavarez	4000 N. Big Spring Street, Ste 401 Midland,Texas 79705 Tel (432) 682-4559 Fax (432) 682-3946	
IR ID:R-8		Samp) C				- 2			Z F	CONTACT	AINEI D (Y/ 21B	RS /N) BTEX								
D DELIVERED		Sample Temperature	LAB USE ONLY							F	PH TX1 PH 801 PAH 827 Total Meta CLP Meta CLP Vol	5M (0 DC als Ag	GRO - D g As Ba (g As Ba	RO - OI	b Se H	g		(Circle o	A	557	
Special Report Limits	Rush Charges Authorized	X RUSH: Same Day	REMARKS: STANDARD							G G	CLP Ser CCI GC/MS Vo GC/MS Se CB's 80	ol. 82 emi. V	60B / 62					or Specify Method	ANALYSIS REQUEST	CBI	
Special Report Limits or TRRP Report DEX UPS Tracking #:	thorized	ay 24 m 48 hr 72 hr	U				×	×	< >	C G	LM (Asbi hloride hloride eneral V nion/Cat	Sul Vater	fate T	DS stry (se	e attac	hed lis	st)	thod No.)			Page 2
sed to Imaging	. 0		22 1	2:59:4	17 DI					Н	old										of 2



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 07/17/2017 09:51:00 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 557682

Temperature Measuring device used: R8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		5.7
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seal present on shipping co	ontainer/ cooler?	N/A
#5 *Custody Seals intact on shipping co	ntainer/ cooler?	N/A
#6 Custody Seals intact on sample bottle	es?	N/A
#7 *Custody Seals Signed and dated?		N/A
#8 *Chain of Custody present?		Yes
#9 Sample instructions complete on Cha	in of Custody?	Yes
#10 Any missing/extra samples?		No
#11 Chain of Custody signed when relin	quished/ received?	Yes
#12 Chain of Custody agrees with samp	le label(s)?	Yes
#13 Container label(s) legible and intact	?	Yes
#14 Sample matrix/ properties agree with	n Chain of Custody?	Yes
#15 Samples in proper container/ bottle?		Yes
#16 Samples properly preserved?		Yes
#17 Sample container(s) intact?		Yes
#18 Sufficient sample amount for indicat	ed test(s)?	Yes
#19 All samples received within hold tim	e?	Yes
#20 Subcontract of sample(s)?		No
#21 VOC samples have zero headspace	?	N/A
* Must be completed for after-hours de Analyst: ss	elivery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by:		Date: <u>07/17/2017</u>
Checklist reviewed by:	Mury Hoah Kelsey Brooks	Date: 07/17/2017

Analytical Report 561733

for Tetra Tech- Midland

Project Manager: Ike Tavarez
EOG- Beowulf 33 State Com 601H
212C-MD-00902
11-SEP-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054) Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)

Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





11-SEP-17

Project Manager: **Ike Tavarez Tetra Tech- Midland**4000 N. Big Spring Suite 401
Midland, TX 79705

Reference: XENCO Report No(s): 561733

EOG- Beowulf 33 State Com 601H Project Address: Lea County NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 561733. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 561733 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Koah

Project Manager

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Sample Cross Reference 561733



Tetra Tech- Midland, Midland, TX

EOG- Beowulf 33 State Com 601H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North Bottom Hole	S	08-28-17 00:00		561733-001
North West Sidewall	S	08-28-17 00:00		561733-002
North East Sidewall	S	08-28-17 00:00		561733-003
Bottom Hole #1	S	08-28-17 00:00		561733-004
Bottom Hole #2	S	08-28-17 00:00		561733-005
South Bottom Hole	S	08-28-17 00:00		561733-006
South West Sidewall	S	08-28-17 00:00		561733-007
South East Sidewall	S	08-28-17 00:00		561733-008
West Sidewall	S	08-28-17 00:00		561733-009
East Sidewall	S	08-28-17 00:00		561733-010
Re-Trench #5 (8')	S	08-28-17 00:00		561733-011

CASE NARRATIVE

Client Name: Tetra Tech- Midland

Project Name: EOG- Beowulf 33 State Com 601H

 Project ID:
 212C-MD-00902
 Report Date:
 11-SEP-17

 Work Order Number(s):
 561733
 Date Received:
 08/30/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3027156 Inorganic Anions by EPA 300/300.1

Lab Sample ID 561733-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 561733-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Contact:

Certificate of Analysis Summary 561733

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Beowulf 33 State Com 601H



Project Id: 212C-MD-00902

Ike Tavarez

Project Location: Lea County NM

Date Received in Lab: Wed Aug-30-17 03:40 pm

Report Date: 11-SEP-17 **Project Manager:** Kelsey Brooks

	Lab Id:	561733-0	01	561733-00	02	561733-00	03	561733-0	04	561733-0	05	561733-00	06
Analysis Requested	Field Id:	North Botton	n Hole	North West Sic	dewall	North East Sid	lewall	Bottom Ho	le #1	Bottom Hol	e #2	South Bottom	Hole
Anaiysis Requesieu	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Aug-28-17 (00:00	Aug-28-17 0	00:00	Aug-28-17 0	00:00	Aug-28-17 (00:00	Aug-28-17 (00:00	Aug-28-17 0	00:00
Inorganic Anions by EPA 300/300.1	Extracted:	Sep-08-17	11:15	Sep-08-17 1	1:15	Sep-08-17 1	1:15	Sep-08-17 1	1:15	Sep-08-17 1	1:15	Sep-08-17 1	1:15
	Analyzed:	Sep-08-17	12:07	Sep-08-17 1	2:31	Sep-08-17 1	2:39	Sep-08-17 1	2:47	Sep-08-17 1	2:56	Sep-08-17 1	3:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		22.1	4.93	<4.98	4.98	<4.98	4.98	64.9	5.00	<4.90	4.90	<4.90	4.90

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Knis froah



212C-MD-00902

Lea County NM

Ike Tavarez

Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 561733

Tetra Tech- Midland, Midland, TX

Project Name: EOG-Beowulf 33 State Com 601H



Date Received in Lab: Wed Aug-30-17 03:40 pm **Report Date:** 11-SEP-17

Project Manager: Kelsey Brooks

		561500.0	07	561500.0	00	561733.0	00	561522.01		561522.0		
	Lab Id:	561733-0	07	561733-0	08	561733-0	09	561733-01	10	561733-0	11	
Analysis Requested	Field Id:	South West Si	dewall	South East Sie	dewall	West Sides	wall	East Sidew	all	Re-Trench #	5 (8')	
Anaiysis Requesieu	Depth:											
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-28-17 (00:00	Aug-28-17 (00:00	Aug-28-17 (00:00	Aug-28-17 0	0:00	Aug-28-17 (00:00	
Inorganic Anions by EPA 300/300.1	Extracted:	Sep-08-17 1	1:15	Sep-08-17 1	1:15	Sep-08-17 1	1:15	Sep-08-17 1	1:15	Sep-08-17 1	1:15	
	Analyzed:	Sep-08-17 1	3:28	Sep-08-17 1	3:37	Sep-08-17 1	3:45	Sep-08-17 13	3:53	Sep-08-17 1	4:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		<4.92	4.92	62.2	4.96	18.1	4.95	<4.99	4.99	<4.96	4.96	·

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Kelsey Brooks Project Manager



Flagging Criteria



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- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800



BS / BSD Recoveries



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Project Name: EOG-Beowulf 33 State Com 601H

Work Order #: 561733 Project ID: 212C-MD-00902

Analyst: MNV Date Prepared: 09/08/2017 Date Analyzed: 09/08/2017

 Lab Batch ID: 3027156
 Sample: 730568-1-BKS
 Batch #: 1
 Matrix: Solid

Units:	mg/kg	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
I	Inorganic Anions by EPA 300/300.1	Blank Sample ResultSpike AddedBlank Spike ResultBlank Spike WRSpike AddedBlank Spike AddedBlank Spike Spike DuplicateBlk. Spk Dup.Control RPDControl Limits WRControl Limits WRPD									Flag	
	Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Ch	nloride	<5.00	250	240	96	250	242	97	1	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



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Project Name: EOG- Beowulf 33 State Com 601H

Work Order #: 561733

Project ID: 212C-MD-00902

Lab Batch ID:

3027156

QC- Sample ID: 561733-001 S

Batch #:

Matrix: Soil

Date Analyzed:

09/08/2017

Date Prepared: 09/08/2017

Analyst: MNV

Reporting Units:

mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	22.1	247	300	113	247	298	112	1	90-110	20	X

Lab Batch ID:

3027156

mg/kg

QC- Sample ID: 561733-011 S

Batch #:

Matrix: Soil

Date Analyzed:

Reporting Units:

09/08/2017

Date Prepared: 09/08/2017

Analyst: MNV

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<4.96	248	278	112	248	278	112	0	90-110	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Final 1.000

Final 1.000



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: Tetra Tech- Midland

Date/ Time Received: 08/30/2017 03:40:00 PM

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Work Order #: 561733

Temperature Measuring device used: R8

Sa	mple Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.6	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/	cooler? N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/	received? Yes	
#10 Chain of Custody agrees with sample labels	s/matrix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)? Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace	? N/A	

* Must be c	completed for after-hours de	livery of samples prior to placir	og in the refrigerator
Analyst:	,	PH Device/Lot#:	J J
	Checklist completed by:	Jessica Veamer Jessica Kramer	Date: 09/01/2017
	Checklist reviewed by:	Mury Horah Kelsey Brooks	Date: 09/01/2017

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Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 85921

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	85921
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

С	reated By		Condition Date
á	amaxwell	None	9/19/2022