State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

Santa Fe, NM 87505 Release Notification and Corrective Action

Surface Owner: Federal

Type of Release:

Received by OCD: 4/11/2023 2:48:19 PM

Mineral Owner: Federal

API No. 30-015-34707

Volume Recovered:

				LOCA	TION OF REI	LEASE		
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	09	17S	30E	330	South	330	East	Eddy

Latitude 32,8427429 Longitude - 103.9695206

Volume of Release:

NATURE OF RELEASE

Produced Water & Oil	40 bbls PW; 10 bbls Oil 38 bbls PW; 9 bbls Oil							
Source of Release:	Date and Hour of Occurrence:	Date and H	lour of Discovery:					
Tank Overflow	9-26-2017 9:00 am	9-26-2017	9:00 am					
Was Immediate Notice Given?	If YES, To Whom?							
🛛 Yes 🔲 No 🗌 Not Required	d Crystal Weaver/Shelly Tucker							
By Whom? Becky Haskell	Date and Hour: 9/26/2017 03:43 PM							
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	lercourse.						
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*								
The release occurred when the transducer failed causing the water tank to	o overflow. The transducer was replace	ed.						
Describe Area Affected and Cleanup Action Taken.*								
The release occurred within the lined facility [sic]. Vacuum trucks were of for any possible impact from the release and we will present a remediation activities. The release occurred within an unlined facility. Remediation activitie <i>Workplan</i> . Please reference the Workplan dated January 23, 2018, an additional details regarding remediation activities.	n work plan to the NMOCD for appro es were conducted in accordance wit ad the Remediation Summary and C	val prior to a h and NMO losure Repo	ny significant remediation CD and BLM-approved rt dated July 2, 2018, for					
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release a public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective ac a NMOCD marked as "Final Report" te contamination that pose a threat to g	tions for relea does not relie ground water,	ases which may endanger we the operator of liability surface water, human health					
	OIL CONSERV	VATION I	DIVISION					
Signature Leblica Haskell	Approved by Environmental Special	\square	Juttan Hall					
Printed Name: Rebecca Haskell	reproved by Environmental Specials	<u>" 1</u>	Jun T					
Title: HSE Coordinator	Approval Date: 5/2/2023	Expiration D	Date: N/A					
E-mail Address: <u>rhaskell@concho.com</u>	Conditions of Approval:	Attached						
Date: July 2, 2018 Phone: 432-818-2372 Approved under the old rules per approved								
Date: July 2, 2010 Phone: 452-616-2572	Approved under the old rules pe	a approved	C					



July 2, 2018

Mike Bratcher New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First Street Artesia, NM 88210

Henryetta Price Carlsbad Field Office United States Department of the Interior Bureau of Land Management 620 E. Greene Street Carlsbad, NM 88220

Re:

Remediation Summary and Closure Report Polaris B Federal #005 API No. 30-015-34707 GPS: 32.84274, -103.96952 UL "P", Sec. 09, T17S, R30E Eddy Co, NM NMOCD Ref. No. 2RP-4418

TRC Environmental Corporation (TRC), on behalf of COG Operating, LLC (COG), has prepared this *Remediation Summary and Closure Report* for the release site known as the Polaris B Federal #005. Details of the release are summarized below:

RELEASE DETAILS										
Turno of Poloosou	Crudo Oil and Produced Water	Volume of Release	: 10 bbls Oil,	, 40 bbls Produced W	ater					
Source of Release: Tank Overflow Date of Release:	d: 9 bbls Oil, 38 bbls Produced Water									
Source of Release:	Tank Overflow	Date of Release:	09/26/17	Date of Discovery:	09/26/17					
Was Immediate No	tice Given? Yes	If YES, to Whom? NMOCD District II/BLM								
Was a Watercourse	Reached? No	Volume Impacted the Watercourse: Not Applicable								
Cause of Problem and Remedial Action Taken:										
The release was att	ributed to the failure of a transdu	icer causing the wat	er tank to ov	erflow.						

A Site Location Map is provided as Attachment #1. A copy of the initial Release Notification and Corrective Action (NMOCD Form C-141) is provided as Attachment #6.

REGULATORY FRAMEWORK

Crude oil facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). Impact of soil due to a surface release is addressed in the NMOCD guidance document titled *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993.

The guidance document provides direction for initial response actions, site assessment, sampling procedures and provides a total ranking score based on the depth to groundwater, distance to private and domestic water sources, and the distance to the nearest surface water body as follows:

RANKING SCORE CRITERIA									
General Site Characteristics	General Site Characteristics								
	< 50 Feet	20							
Depth to Groundwater	50-99 Feet	10							
	> 100 Feet	0							
Well Head Protection Area,	Yes	20							
<1,000 Feet from water source, or <200 Feet from private domestic water source	No	0							
	< 200 Feet	20							
Distance to Surface Water Body	200 - 1,000 Feet	10							
	> 1,000 Feet	0							

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within the Section and identify any registered water wells within 1,000 ft. of the release site. If none were identified, the approximate depth to groundwater was extrapolated from a Depth to Groundwater Map utilized by the NMOCD. The results of the groundwater database search are provided as Attachment #3.

TOTAL RANKING SCORE FOR SITE										
Ranking Score Criteria	Ranking Score Criteria									
Depth to Groundwater	325 Feet	0								
Well Head Protection Area, <1,000 Feet from water source, or <200 Feet from private domestic water source	No	0								
Distance to Surface Water Body	> 1,000 Feet	0								
TOTAL RANKING SCORE FOR S	ITE	0								

The NMOCD guidelines indicated the Site has an initial ranking score of 0 points. The NMOCD Recommended Remediation Action Levels (RRAL) for a Site with a ranking score of 0 points are as follows:

RECOMMENDED REMEDIATION ACT	ION LEVELS
Benzene	10 mg/kg
Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX)	50 mg/kg
Total Petroleum Hydrocarbons (TPH)	5,000 mg/kg
Chloride	600 mg/kg

INITIAL INVESTIGATION

On December 21, 2017, TRC conducted an initial soil investigation at the Site. During the initial soil investigation, a series of hand-augered soil bores (SP #1 through SP #3) were advanced within the release margins in an effort to determine the vertical extent of soil impact. During the advancement of the soil bores, nine (9) soil samples (SP #1 @ Surf., SP #1 @ 1', SP #1 @ 2', SP #2 @ Surf., SP #2 @ 1', SP #2 @ 2', SP #3 @ Surf., SP #3 @ 1', and SP #3 @ 2') were collected and submitted to Xenco Laboratories in Midland, Texas for determination of chloride using Method 300/300.1. (See attached Figure 2 and Table 1 for sample locations and a summary of laboratory analytical results). Laboratory analytical results indicated chloride concentrations ranged from 5,590 mg/kg for soil sample SP #3 @ Surf. to less than the applicable laboratory reporting limit (RL) in soil samples SP #2 @ 1' and SP #2 @ 2'. Chloride concentrations were less than the NMOCD RRAL in each of the submitted soil samples, with the exception of soil samples SP #1 @ Surf. (4,620 mg/kg), SP #1 @ 1' (753 mg/kg), SP #3 @ Surf. (5,590 mg/kg), and SP #3 @ 1' (903 mg/kg).

In addition, soil samples SP #1 @ Surf., SP #1 @ 2', SP #2 @ Surf., SP #2 @ 1', SP #3 @ Surf., and SP #3 @ 2' were analyzed for concentrations of TPH using Method SW 846-8015M. Laboratory analytical results indicated TPH concentrations ranged from 4,293 mg/kg in soil sample SP #2 @ Surf. to less than the applicable laboratory RL in soil samples SP #1 @ Surf., SP #1 @ 2', and SP #3 @ 2'. TPH concentrations were less than the NMOCD RRAL in each of the submitted soil samples. It should be noted soil sample SP #2 @ Surf. was analyzed outside of recommended hold time for TPH.

Soil samples SP #1 @ Surf., SP #2 @ Surf., and SP #3 @ Surf. were also analyzed for concentrations of BTEX using Method SW 846-8021B. Laboratory analytical results indicated benzene concentrations were less than the applicable laboratory RL in each of the submitted soil samples, with the exception of soil sample SP #3 @ Surf., which exhibited a concentration of 0.00707 mg/kg. Total BTEX concentrations ranged from less than the laboratory RL in soil samples SP #1 @ Surf. to 4.3 mg/kg in soil sample SP #2 @ Surf. Benzene and total BTEX concentrations were less than the NMOCD RRAL in each of the submitted soil samples.

In addition, TRC collected four (4) soil samples (North B @ 1', South @ 1', East @ 1' and West @ 1') from the edges of the inferred release margins and submitted the samples to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated benzene, BTEX, and TPH concentrations were less than the applicable laboratory RL in each of the submitted soil samples, with the exception of soil samples South #1 and West #1, which exhibited TPH concentrations of 16.0 mg/kg and 26.4 mg/kg, respectively. Laboratory analytical results indicated chloride concentrations ranged from 29.9 mg/kg for soil sample East @ 1' to 1,210 mg/kg for soil sample North B @ 1'. A review of the analytical results indicated benzene, BTEX, TPH and chloride concentrations were less than the NMOCD RRAL in each of the submitted delineation samples, with the exception of soil samples North B @ 1' and South @ 1' which exhibited chloride concentrations of 1,210 mg/kg and 879 mg/kg, respectively. A table summarizing laboratory analytical results from soil samples collected during the initial assessment is provided on the following page:

					Table 1				
			SW 84	46-8021b			SW-846 8015	М	E300
Sample ID	Depth	Soil Status	Benzene	Total BTEX	TPH GRO C ₆ -C ₁₀	TPH DRO C ₁₀ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C_6 - C_{35}	CHLORIDE 4,620 753 46.6 228 <10.0 <9.65 5,590 903 127 1,210 879
SP #1 @ Surf.	Surf.	Excavated	<0.000992	<0.000992	<14.9	<14.9	<14.9	<14.9	4,620
SP #1 @ 1'	1'	Excavated	-	-	-	-	-	-	753
SP #1 @ 2'	2'	In-Situ	-	-	<14.9	<14.9	<14.9	<14.9	46.6
SP #2 @ Surf.	Surf.	Excavated	<0.0250	4.3	392 ^k	3,260 ^k	641 ^k	4,293 ^k	228
SP #2 @ 1'	1'	Excavated	-	-	33.6	75.4	<14.9	109.0	<10.0
SP #2 @ 2'	2'	In-Situ	-	-	-	-	-	-	<9.65
SP #3 @ Surf.	Surf.	Excavated	0.00707	0.038054	37.5	3,030	786	3,854	5,590
SP #3 @ 1'	1'	Excavated	-	-	-	-	-	-	903
SP #3 @ 2'	2'	Excavated	-	-	<14.9	<14.9	<14.9	-	127
North B @ 1'	1'	Excavated	<0.000990	<0.00099	<14.9	<14.9	<14.9	<14.9	1,210
South @ 1'	1'	Excavated	<0.000992	<0.000992	<15.0	16.0	<15.0	16.0	879
East @ 1'	1'	In-Situ	<0.00101	<0.00101	<14.9	<14.9	<14.9	<14.9	29.9
West @ 1'	1'	In-Situ	<0.000994	<0.000994	<14.9	26.4	<14.9	26.4	198
NMO	CD RR	RAL	10	50	-	-	-	5,000	600

Laboratory analytical reports are provided as Attachment #4. A "Site & Sample Location Map" is provided as Attachment #2.

PROPOSED REMEDIATION ACTIVITIES AND REMEDIATION WORKPLAN

Based on laboratory analytical results, site conditions and field observations made during the initial release assessment, COG proposed the following remediation activities designed to advance the Release Site toward an approved closure:

• Utilizing a backhoe and/or shovels, excavate impacted soil within the release margins in the areas represented by soil samples SP #1 @ Surf. SP #1 @ 1', SP #3 @ Surf., and SP #3 @ 1' to a depth of approximately two (2) feet (ft.) bgs, or until field test results indicated impacted soil affected above the NMOCD RRAL for chloride has been removed.

• Resample the affected area represented by sample point SP #2 @ Surf. in an effort to determine if soil is affected above the NMOCD RRAL for TPH. In the event it is determined the soil is not affected above the NMOCD RRAL for TPH, the area will be aesthetically addressed.

• Advance the sidewalls of the excavation in the areas characterized by soil samples North B @ 1' and South @ 1' until laboratory analytical results from confirmation soil samples indicate impacted soil affected above the NMOCD RRAL for chloride has been removed.

Affected soil adjacent to and/or beneath active oil and gas equipment impacted above the NMOCD RRAL will be excavated to the maximum extent practicable, in an effort to mitigate risks to human health and property.
Excavated soil will be temporarily stockpiled on-site, atop an impermeable liner, pending final disposition at an

NMOCD-approved disposal facility.
 Upon receiving laboratory analytical results from confirmation soil samples, transport impacted soil to an

NMOCD-approved disposal facility and backfill the excavated area with locally-sourced, non-impacted caliche.
Upon completion of remediation activities and receipt of laboratory analytical result from confirmation soil samples, TRC will prepare and submit a "Remediation Summary and Site Closure Request" to the NMOCD and BLM detailing remediation activities and laboratory analytical results from confirmation soil samples. The *Workplan* was subsequently approved.

SUMMARY OF FIELD ACTIVITIES

As per the approved workplan, impacted soil in the areas represented by soil samples SP #1 @ Surf. SP #1 @ 1', SP #3 @ Surf., and SP #3 @ 1' was excavated to a depth of approximately two (2) ft. bgs, or until field test results indicated impacted soil affected above the NMOCD RRAL for chloride had been removed. In addition, the affected area represented by soil sample SP#2 was excavated to approximately one (1) ft. bgs. Excavation sidewalls were advanced toward the North and South until laboratory analytical results indicated impacted soil affected had been removed. Upon excavating impacted soil from within the release margins, two (2) confirmation soil samples were collected from the excavation sidewalls and submitted to the laboratory for analysis of concentrations of chloride. Laboratory analytical results indicated chloride concentrations were less than the NMOCD RRAL in each of the submitted soil samples. A table summarizing laboratory analytical results from confirmation soil samples is provided below:

			SW 84	46-8021b	SW-846 80	E300			
Sample ID	Depth	Soil Status	Benzene	Total BTEX	TPH GRO C ₆ -C ₁₀	TPH DRO C ₁₀ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE 169 309
North B @ 1' A	1'	In-Situ	-	-	-	-	-	-	169
South @ 1' A	1'	In-Situ	-	-	-	-	-	-	309
NMOCD RRAL		10	50	-	-	-	5,000	600	

Upon receiving laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, non-impacted "like" material. A Photographic Log is provided as Attachment #5.

EXCAVATION/REMEDIATION DETAIL SUMMARY										
Type of Remediation:		Dig and Haul								
Date Remediation Activities Bega	n: May 21, 2018									
Excavation Dimensions:	Length: 112.5 ft.	Width: 25 to 35 ft.	Depth: 0 to 2 ft.							
Soil Transportation Start Date:	May 25, 2018	Backfill Date:	June 7, 2018							
Total Yards Transported to Dispos	sal: 224	Disposal Facility:	R360 Halfway Facility							

LIMITATIONS

TRC has prepared this Remediation Summary and Soil Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

TRC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. TRC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. TRC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. TRC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of COG Operating, LLC. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of TRC and/or COG Operating, LLC.

SITE CLOSURE REQUEST

Remediation activities were conducted in accordance with the NMOCD- and BLM-approved *Workplan*. Excavated impacted material was transported to an NMOCD-approved disposal facility and the site was backfilled with locally sourced, non-impacted "like" material. TRC on behalf of COG Operating, LLC respectfully requests the NMOCD and BLM grant closure approval for the Polaris B Federal #005 release, which occurred on September 26, 2017.

If you have any questions, or if additional is required, please feel free to contact Becky Haskell or either of the undersigned by phone or email.

Respectfully,

Jael Joung

Joel Lowry Senior Project Manager TRC Environmental Corp.

Cust O Stanley

Curt Stanley Senior Project Manager TRC Environmental Corp.

Attachments:

Attachment #1-Attachment #2-Attachment #3-Attachment #4-Attachment #5-Attachment #6-

#1- Figure 1 - Site Location Map
#2- Figure 2 - Site & Sample Location Map
#3- Groundwater Database Search
#4- Laboratory Analytical Reports
#5- Photographic Log
#6- Release Notification and Corrective Action (FORM C-141)







Analytical Report 572194

for TRC Solutions, Inc

Project Manager: Joel Lowry

Polaris B Federal #005

19-JAN-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





19-JAN-18

Project Manager: Joel Lowry TRC Solutions, Inc 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): **572194 Polaris B Federal #005** Project Address: Eddy County , New Mexico

Joel Lowry:

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) 572194. 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. 572194 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,

Huns hoah

Kelsey Brooks 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 Id SP #1 @ SUR. SP #1 @ 1' SP #1 @ 2' SP #2 @ SUR. SP #2 @ 1' SP #2 @ 2' SP #3 @ SUR. SP #3 @ 1' SP #3 @ 2' North B @ 1' South @ 1' East @ 1'

Sample Cross Reference 572194

TRC Solutions, Inc, Midland, TX

Polaris B Federal #005

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	12-21-17 08:00		572194-001
S	12-21-17 08:05		572194-002
S	12-21-17 08:10		572194-003
S	12-21-17 08:15	0	572194-004
S	12-21-17 08:20	1 ft	572194-005
S	12-21-17 08:25	2 ft	572194-006
S	12-21-17 08:30	0	572194-007
S	12-21-17 08:35	1 ft	572194-008
S	12-21-17 08:40	2 ft	572194-009
S	12-21-17 08:45	1 ft	572194-010
S	12-21-17 08:50	1 ft	572194-011
S	12-21-17 08:55	1 ft	572194-012
S	12-21-17 09:00	1 ft	572194-013



CASE NARRATIVE

Page 14 of 60

Client Name: TRC Solutions, Inc Project Name: Polaris B Federal #005

Project ID: Work Order Number(s): 572194

BORATORIES

 Report Date:
 19-JAN-18

 Date Received:
 12/27/2017

Sample receipt non conformances and comments: 572194-004 added per Joal Lowry e-mail 01/10/18-- KB

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3037321 BTEX by SW 8260B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3037396 BTEX by SW 8260B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3037542 BTEX by SW 8260B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.





Project Id:

Contact:

Joel Lowry **Project Location:** Eddy County, New Mexico

Certificate of Analysis Summary 572194

TRC Solutions, Inc, Midland, TX Project Name: Polaris B Federal #005

Date Received in Lab: Wed Dec-27-17 05:12 pm Report Date: 19-JAN-18 Project Manager: Kelsey Brooks

	Lab Id:	572194-0	001	572194-0	02	572194-0	03	572194-0	004	572194-0	05	572194-0	06
	Field Id:	SP #1 @ S		SP #1 @	-	SP #1 @		SP #2 @ S		SP #2 @		SP #2 @	
Analysis Requested	Depth:			51 #1 0		51 #1 0	-	0-	Jon.	1- ft		2- ft	-
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
		~		~	~ ~ ~	~ ~ ~ ~ ~		~				~	
	Sampled:	Dec-21-17	08:00	Dec-21-17 (08:05	Dec-21-17 (08:10	Dec-21-17	08:15	Dec-21-17 (08:20	Dec-21-17 0	08:25
BTEX by SW 8260B	Extracted:	Jan-03-18	14:20				[Jan-04-18	13:00		[
SUB: TX104704215-17-23	Analyzed:	Jan-03-18	14:55					Jan-04-18	14:19				
	Units/RL:	mg/kg	RL					mg/kg	RL				
Benzene		< 0.000992	0.000992					< 0.0250	0.0250				
Toluene		< 0.000992	0.000992					< 0.0250	0.0250				
Ethylbenzene		< 0.000992	0.000992					1.18	0.0250				
m,p-Xylenes		< 0.00198	0.00198					1.95	0.0500				
o-Xylene		< 0.000992	0.000992					1.17	0.0250				
Total Xylenes		< 0.000992	0.000992					3.12	0.025				
Total BTEX		< 0.000992	0.000992					4.3	0.025				
Chloride by EPA 300	Extracted:	Jan-03-18	14:00	Jan-03-18 1	4:00	Jan-03-18 1	4:00	Jan-03-18 14:00 Jan-03-18 14:00		4:00	Jan-03-18 14:00		
SUB: TX104704215-17-23	Analyzed:	Jan-04-18	02:14	Jan-04-18 0	3:10	Jan-04-18 0	3:21	Jan-04-18 (03:32	Jan-04-18 0	3:43	Jan-04-18 03:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4620	48.9	753	9.77	46.6	9.84	228	10.0	<10.0	10.0	<9.65	9.65
DRO-ORO By SW8015B	Extracted:	Dec-29-17	09:51			Dec-29-17 ()9:54	Jan-18-18	12:00	Dec-29-17 (9:57		
SUB: TX104704215-17-23	SUB: TX104704215-17-23 Analyzed:		19:29			Dec-29-17 1	9:49	Jan-19-18 (09:02	Dec-29-17 2	20:10		
	Units/RL:	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)	·	<14.9	14.9			<14.9	14.9	392 K	74.9	33.6	14.9		
Diesel Range Organics (DRO)		<14.9	14.9			<14.9	14.9	3260 K	74.9	75.4	14.9		
Oil Range Hydrocarbons (ORO)		<14.9	14.9			<14.9	14.9	641 K	74.9	<14.9	14.9		

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Boah

Kelsey Brooks Project Manager





Project Id:

Contact:

Joel Lowry **Project Location:** Eddy County, New Mexico

Certificate of Analysis Summary 572194

TRC Solutions, Inc, Midland, TX Project Name: Polaris B Federal #005

Date Received in Lab: Wed Dec-27-17 05:12 pm Report Date: 19-JAN-18 Project Manager: Kelsey Brooks

	Lab Id:	572194-0	007	572194-0	08	572194-0	09	572194-0	10	572194-0	011	572194-	012
Analysis Requested	Field Id:	SP #3 @ SUR.		SP #3 @	1'	SP #3 @ 2'		North B @ 1'		South @ 1'		East @ 1'	
Analysis Kequestea	Depth:	0-		1- ft		2- ft		1- ft		1- ft		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-21-17	08:30	Dec-21-17 ()8:35	Dec-21-17 0	08:40	Dec-21-17 ()8:45	Dec-21-17 (08:50	Dec-21-17	08:55
BTEX by SW 8260B	Extracted:	Jan-03-18	14:20					Jan-02-18 1	8:00	Jan-02-18 1	8:00	Jan-02-18	18:00
SUB: TX104704215-17-23	Analyzed:	Jan-03-18	14:38					Jan-02-18 2	1:56	Jan-02-18 2	2:13	Jan-02-18	22:46
	Units/RL:	mg/kg	RL					mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.00707	0.000994					<0.000990	0.000990	< 0.000992	0.000992	< 0.00101	0.00101
Toluene		0.0224	0.000994					<0.000990	0.000990	< 0.000992	0.000992	< 0.00101	0.00101
Ethylbenzene		0.00369	0.000994					<0.000990	0.000990	< 0.000992	0.000992	< 0.00101	0.00101
m,p-Xylenes		0.00390	0.00199					< 0.00198	0.00198	< 0.00198	0.00198	< 0.00202	0.00202
o-Xylene		0.000994	0.000994					<0.000990	0.000990	< 0.000992	0.000992	< 0.00101	0.00101
Total Xylenes		0.004894	0.000994					< 0.00099	0.00099	< 0.000992	0.000992	< 0.00101	0.00101
Total BTEX		0.038054	0.000994					<0.00099 0.00099 <0.000992 0.0		0.000992	< 0.00101	0.00101	
Chloride by EPA 300	Extracted:	Jan-03-18	14:00	Jan-03-18 1	4:00	Jan-03-18 1	5:00	Jan-03-18 15:00 Jan-03-18 15:00		5:00	Jan-03-18 15:00		
SUB: TX104704215-17-23	Analyzed:	Jan-04-18	04:05	Jan-04-18 0	4:17	Jan-04-18 0	5:24	Jan-04-18 0	5:35	Jan-04-18 (6:08	Jan-04-18	06:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		5590	47.6	903	9.38	127	9.71	1210	9.71	879	10.0	29.9	10.0
DRO-ORO By SW8015B	Extracted:	Dec-29-17	10:00			Dec-29-17 0	9:42	Dec-29-17 1	0:03	Dec-29-17	10:06	Dec-29-17	10:09
SUB: TX104704215-17-23	Analyzed:	Jan-02-18	23:16			Dec-29-17 1	6:02	Dec-29-17 2	20:30	Dec-29-17 2	20:52	Dec-29-17	21:13
	Units/RL:	mg/kg	RL			mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		37.5	14.9			<14.9	14.9	<14.9	14.9	<15.0	15.0	<14.9	14.9
Diesel Range Organics (DRO)		3030	14.9			<14.9	14.9	<14.9	14.9	16.0	15.0	<14.9	14.9
Oil Range Hydrocarbons (ORO)		786	14.9			<14.9	14.9	<14.9	14.9	<15.0	15.0	<14.9	14.9

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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Huns Boah

Kelsey Brooks Project Manager





Project Id:

Contact:

Joel Lowry **Project Location:** Eddy County, New Mexico Certificate of Analysis Summary 572194

TRC Solutions, Inc, Midland, TX Project Name: Polaris B Federal #005

Date Received in Lab: Wed Dec-27-17 05:12 pm Report Date: 19-JAN-18 Project Manager: Kelsey Brooks

			1	1	1		
	Lab Id:	572194-013					
Analysis Requested	Field Id:	West @ 1'					
Anutysis Requested	Depth:	1- ft					
	Matrix:	SOIL					
	Sampled:	Dec-21-17 09:00					
BTEX by SW 8260B	Extracted:	Jan-02-18 18:00	1				
SUB: TX104704215-17-23	Analyzed:	Jan-02-18 22:29					
	Units/RL:	mg/kg RL					
Benzene		<0.000994 0.000994					
Toluene		<0.000994 0.000994					
Ethylbenzene		<0.000994 0.000994					
m,p-Xylenes		<0.00199 0.00199					
o-Xylene		< 0.000994 0.000994					
Total Xylenes		< 0.000994 0.000994					
Total BTEX		<0.000994 0.000994					
Chloride by EPA 300	Extracted:	Jan-03-18 15:00					
SUB: TX104704215-17-23	Analyzed:	Jan-04-18 06:31					
	Units/RL:	mg/kg RL					
Chloride		198 9.90					
DRO-ORO By SW8015B	Extracted:	Dec-29-17 10:12					
SUB: TX104704215-17-23	Analyzed:	Dec-29-17 21:33					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<14.9 14.9					
Diesel Range Organics (DRO)		26.4 14.9					
Oil Range Hydrocarbons (ORO)		<14.9 14.9					
				1	1	1	

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Huns Boah

Kelsey Brooks Project Manager



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 AZ 85282	(602) 437-0330	



Project Name: Polaris B Federal #005

Work Ord Lab Batch #:	ers: 57219 3037271	4, Sample: 572194-009 / SMP	Bate	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 12/29/17 16:02	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-O	PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		179	198	90	70-135	
o-Terphenyl			94.2	99.2	95	70-135	
Lab Batch #:	3037271	Sample: 572194-001 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 12/29/17 19:29	SU	RROGATE R	ECOVERY	STUDY	
	DRO-O	PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctan	0	Analytes	00.0	99.0	92	70-135	
o-Terphenyl	e		90.9		-		
Lab Batch #:	3037271	Sample: 572194-003 / SMP	48.8 Batc	49.5 h: 1 Matrix	99 • Soil	70-135	
Lab Batch #: Units:		-					
Units:	mg/kg	Date Analyzed: 12/29/17 19:49	SU	RROGATE R	ECOVERY	STUDY	
	DRO-O	RO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		88.8	99.4	89	70-135	
o-Terphenyl			46.3	49.7	93	70-135	
Lab Batch #:	3037271	Sample: 572194-005 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 12/29/17 20:10	SU	RROGATE R	ECOVERY	STUDY	
	DRO-O	PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes	[A]	[0]	[D]	701	
1-Chlorooctan	e	·	90.1	99.0	91	70-135	
o-Terphenyl			49.5	49.5	100	70-135	
Lab Batch #:	3037271	Sample: 572194-010 / SMP	Batc		1	1	
Units:	mg/kg	Date Analyzed: 12/29/17 20:30	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-O	PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooctan	e		87.7	99.0	89	70-135	
o-Terphenyl			44.4	49.5	90	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	rders: 57219 #: 3037271	4, Sample: 572194-011 / SMP	Batcl	Project ID: n: 1 Matrix			
Units:	mg/kg	Date Analyzed: 12/29/17 20:52		RROGATE R	• • • •	STUDY	
	DRO-O	DRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		79.3	99.9	79	70-135	
o-Terpheny	r l		43.1	50.0	86	70-135	
Lab Batch	#: 3037271	Sample: 572194-012 / SMP	Batch	n: 1 Matrix	: Soil		
U nits:	mg/kg	Date Analyzed: 12/29/17 21:13	SURROGATE RECOVERY STUDY				
	DRO-O	PRO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
		Analytes					
1-Chlorooc			87.4	99.0	88	70-135	
o-Terpheny			44.1	49.5	89	70-135	
	#: 3037271	Sample: 572194-013 / SMP	Batch	n: 1 Matrix	: Soil		
J nits:	mg/kg	Date Analyzed: 12/29/17 21:33	SU	RROGATE R	ECOVERY	STUDY	
	DRO-O	ORO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		79.3	99.0	80	70-135	
o-Terpheny	/1		43.8	49.5	88	70-135	
ab Batch	#: 3037321	Sample: 572194-010 / SMP	Batch	n: 1 Matrix	: Soil		
J nits:	mg/kg	Date Analyzed: 01/02/18 21:56	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0515	0.0500	103	74-126	
1,2-Dichlor	oethane-D4		0.0477	0.0500	95	80-120	
Toluene-D8	3		0.0487	0.0500	97	73-132	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	rders: 572194 #: 3037321	4, Sample: 572194-011 / SMP	Batc	Project ID h: 1 Matrix					
Units:	mg/kg	Date Analyzed: 01/02/18 22:13	SURROGATE RECOVERY STUDY						
		X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Dibromoflu	oromethane		0.0513	0.0500	103	74-126			
1,2-Dichlor	oethane-D4		0.0470	0.0500	94	80-120			
Toluene-D8	8		0.0505	0.0500	101	73-132			
Lab Batch	#: 3037321	Sample: 572194-013 / SMP	Batc	h: 1 Matrix	: Soil				
Units:	mg/kg	Date Analyzed: 01/02/18 22:29	st	RROGATE R	ECOVERY	STUDY			
BTEX by SW 8260B			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
D'h	oromethane	Analytes	0.0500	0.0500		74.106			
	oethane-D4		0.0509	0.0500	102	74-126			
,			0.0464	0.0500	93	80-120			
Toluene-D8	#: 3037321	Sample: 572194-012 / SMP	0.0519 Bate	0.0500 h: 1 Matrix	104 104	73-132			
		•							
Units:	mg/kg	Date Analyzed: 01/02/18 22:46	SU	RROGATE R	ECOVERYS	STUDY			
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
Dibromoflu	oromethane		0.0507	0.0500	101	74-126			
1,2-Dichlor	oethane-D4		0.0485	0.0500	97	80-120			
Toluene-D8	3		0.0507	0.0500	101	73-132			
Lab Batch	#: 3037271	Sample: 572194-007 / SMP	Batc	h: 1 Matrix	: Soil				
U nits:	mg/kg	Date Analyzed: 01/02/18 23:16	SU	RROGATE R	ECOVERY	STUDY			
		RO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooc	tane		85.1	99.6	85	70-135			
o-Terpheny	/1		48.3	49.8	97	70-135			

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	r ders : 572194 #: 3037396	4, Sample: 572194-007 / SMP	Batc	Project ID: h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 01/03/18 14:38		RROGATE R		STUDV	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0535	0.0500	107	74-126	
1,2-Dichlor	oethane-D4		0.0514	0.0500	103	80-120	
Toluene-D8	3		0.0512	0.0500	102	73-132	
ab Batch	#: 3037396	Sample: 572194-001 / SMP	Batc	h: 1 Matrix	: Soil		
Units:	mg/kg	Date Analyzed: 01/03/18 14:55	SU	RROGATE R	ECOVERY S	STUDY	
BTEX by SW 8260B Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0531	0.0500	106	74-126	
1,2-Dichlor	oethane-D4		0.0495	0.0500	99	80-120	
Toluene-D8	3		0.0497	0.0500	99	73-132	
Lab Batch	#: 3037542	Sample: 572194-004 / SMP	Batc	h: 1 Matrix	: Soil		
U nits:	mg/kg	Date Analyzed: 01/04/18 14:19	SU	RROGATE R	ECOVERY S	STUDY	
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0524	0.0500	105	74-126	
1,2-Dichlor	oethane-D4		0.0487	0.0500	97	80-120	
Toluene-D8	3		0.0511	0.0500	102	73-132	
Lab Batch	#: 3038649	Sample: 572194-004 / SMP	Batc	h: 1 Matrix	: Soil	1	
U nits:	mg/kg	Date Analyzed: 01/19/18 09:02	SU	RROGATE R	ECOVERY S	STUDY	
		RO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		83.4	99.8	84	70-135	
o-Terpheny	l		43.2	49.9	87	70-135	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	ders : 57219 #: 3037271	4, Sample: 7636744-1-BLK /	BLK Batcl	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 12/29/17 12:52		RROGATE R		STUDY	
	DRO-O	RO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooct	tane		72.6	100	73	70-135	
o-Terphenyl	1		39.9	50.0	80	70-135	
Lab Batch	#: 3037321	Sample: 7636872-1-BLK /	BLK Batcl	h: 1 Matrix	: Solid		
U nits:	mg/kg	Date Analyzed: 01/02/18 15:37	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0516	0.0500	103	74-126	
1,2-Dichloroethane-D4			0.0465	0.0500	93	80-120	
Toluene-D8	3		0.0482	0.0500	96	73-132	
Lab Batch	# 2027206			1		1	
Lab Datti	#: 303/396	Sample: 7636943-1-BLK /	BLK Batcl	h: 1 Matrix	: Solid		
	#: 3037396 mg/kg	Sample: 7636943-1-BLK / Date Analyzed: 01/03/18 12:09		h: 1 Matrix		STUDY	
	mg/kg	-				STUDY Control Limits %R	Flags
J nits:	mg/kg BTE2	Date Analyzed: 01/03/18 12:09 X by SW 8260B	SU Amount Found	RROGATE R True Amount	ECOVERY S Recovery %R	Control Limits	Flags
	mg/kg BTE2 oromethane	Date Analyzed: 01/03/18 12:09 X by SW 8260B	Amount Found [A]	RROGATE R True Amount [B]	ECOVERY S Recovery %R [D]	Control Limits %R	Flags
Units: Dibromoflue	mg/kg BTE2 oromethane oethane-D4	Date Analyzed: 01/03/18 12:09 X by SW 8260B	SU Amount Found [A] 0.0509	RROGATE R True Amount [B] 0.0500	ECOVERY S Recovery %R [D] 102	Control Limits %R	Flags
J nits: Dibromoflu 1,2-Dichlord Toluene-D8	mg/kg BTE2 oromethane oethane-D4	Date Analyzed: 01/03/18 12:09 X by SW 8260B	SU Amount Found [A] 0.0509 0.0482 0.0497	RROGATE R True Amount [B] 0.0500 0.0500 0.0500	ECOVERY S Recovery %R [D] 102 96 99	Control Limits %R 74-126 80-120	Flags
Units: Dibromoflud 1,2-Dichlord Toluene-D8 Lab Batch	mg/kg BTE2 oromethane oethane-D4	Date Analyzed: 01/03/18 12:09 X by SW 8260B Analytes	Amount Found [A] 0.0509 0.0482 0.0497 BLK Batcl	RROGATE R True Amount [B] 0.0500 0.0500 0.0500	ECOVERY S Recovery %R [D] 102 96 99 : Solid	Control Limits %R 74-126 80-120 73-132	Flags
Units: Dibromoflud 1,2-Dichlord Toluene-D8 Lab Batch	mg/kg BTEX oromethane oethane-D4 #: 3037542 mg/kg	Date Analyzed: 01/03/18 12:09 X by SW 8260B Analytes Sample: 7637024-1-BLK / Date Analyzed: 01/04/18 12:32 X by SW 8260B	Amount Found [A] 0.0509 0.0482 0.0497 BLK Batcl	RROGATE R True Amount [B] 0.0500 0.0500 0.0500 0.0500 0.0500 h: 1 Matrix	ECOVERY S Recovery %R [D] 102 96 99 : Solid	Control Limits %R 74-126 80-120 73-132	Flags
Units: Dibromoflud 1,2-Dichlord Toluene-D8 Lab Batch	mg/kg BTEZ oromethane oethane-D4 3 #: 3037542 mg/kg BTEZ	Date Analyzed: 01/03/18 12:09 X by SW 8260B Analytes Sample: 7637024-1-BLK / Date Analyzed: 01/04/18 12:32	SU Amount Found [A] 0.0509 0.0482 0.0497 BLK Batcl SU Amount Found	RROGATE R Amount [B] 0.0500 0.0500 0.0500 h: 1 Matrix RROGATE R True Amount	ECOVERY S Recovery %R [D] 102 96 99 : Solid ECOVERY S Recovery %R	Control Limits %R 74-126 80-120 73-132 STUDY Control Limits	
Units: Dibromoflue 1,2-Dichlore Toluene-D8 Lab Batch Units:	mg/kg BTEX oromethane oethane-D4 3 #: 3037542 mg/kg BTEX oromethane	Date Analyzed: 01/03/18 12:09 X by SW 8260B Analytes Sample: 7637024-1-BLK / Date Analyzed: 01/04/18 12:32 X by SW 8260B	SU Amount Found [A] 0.0509 0.0482 0.0497 BLK Batcl SU Amount Found [A]	RROGATE R True Amount [B] 0.0500 0.0500 0.0500 h: 1 Matrix RROGATE R True Amount [B]	ECOVERY S Recovery %R [D] 102 96 99 : Solid ECOVERY S Recovery %R [D]	Control Limits %R 74-126 80-120 73-132 STUDY Control Limits %R	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	rders: 57219 #: 3038649	94, Sample: 7637669-1-BLK /	BLK Batcl	Project ID: n: 1 Matrix			
Units:	mg/kg	Date Analyzed: 01/18/18 17:18		RROGATE R	ECOVERY S	STUDY	
	DRO-C	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane	-	70.2	100	70	70-135	
o-Terpheny	'l		37.7	50.0	75	70-135	
Lab Batch	#: 3037271	Sample: 7636744-1-BKS /	BKS Batcl	n: 1 Matrix	: Solid		
U nits:	mg/kg	Date Analyzed: 12/29/17 12:10	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-C	ORO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		82.5	100	83	70-135	
o-Terpheny	n		43.5	50.0	87	70-135	
Lab Batch	#: 3037321	Sample: 7636872-1-BKS /	BKS Batcl	n: 1 Matrix	: Solid		1
Units:	mg/kg	Date Analyzed: 01/02/18 13:48	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0479	0.0500	96	74-126	
	oethane-D4		0.0474	0.0500	95	80-120	
Toluene-D8	3		0.0540	0.0500	108	73-132	
Lab Batch	#: 3037396	Sample: 7636943-1-BKS /	BKS Batcl	n: 1 Matrix	: Solid	I	
U nits:	mg/kg	Date Analyzed: 01/03/18 09:39	SU	RROGATE R	ECOVERY S	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0502	0.0500	100	74-126	
1,2-Dichlor	oethane-D4		0.0538	0.0500	108	80-120	
Toluene-D8	8		0.0504	0.0500	101	73-132	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	r ders : 572194 #: 3037542	4, Sample: 7637024-1-BKS /	BKS Batc	Project ID h: 1 Matrix			
J nits:	mg/kg	Date Analyzed: 01/04/18 10:07		RROGATE R		STUDY	
	BTE	K by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0515	0.0500	103	74-126	
1,2-Dichlor	oethane-D4		0.0494	0.0500	99	80-120	
Toluene-D8	3		0.0503	0.0500	101	73-132	
ab Batch	#: 3038649	Sample: 7637669-1-BKS /	BKS Bate	h: 1 Matrix	: Solid	11	
J nits:	mg/kg	Date Analyzed: 01/18/18 16:15	SU	RROGATE R	ECOVERY S	STUDY	
		RO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1 (11)		Analytes		100			
1-Chlorooc			81.6	100	82	70-135	
o-Terpheny			43.4	50.0	87	70-135	
	#: 3037271	Sample: 7636744-1-BSD /					
J nits:	mg/kg	Date Analyzed: 12/29/17 12:31	SU	RROGATE R	ECOVERY S	STUDY	
	DRO-O	RO By SW8015B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
1-Chlorooc	tane		89.6	100	90	70-135	
o-Terpheny	1		44.4	50.0	89	70-135	
ab Batch	#: 3037321	Sample: 7636872-1-BSD /	BSD Bate	h: 1 Matrix	: Solid		
J nits:	mg/kg	Date Analyzed: 01/02/18 13:20	SU	RROGATE R	ECOVERY S	STUDY	
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0482	0.0500	96	74-126	
1,2-Dichlor	oethane-D4		0.0479	0.0500	96	80-120	
Toluene-D8	3		0.0536	0.0500	107	73-132	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	rders : 57219 #: 3037396	4, Sample: 7636943-1-BSD /	BSD Bate	Project ID			
Units:	mg/kg	Date Analyzed: 01/03/18 10:56		JRROGATE R	-	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	uoromethane		0.0469	0.0500	94	74-126	
1,2-Dichlor	roethane-D4		0.0470	0.0500	94	80-120	
Toluene-D	8		0.0545	0.0500	109	73-132	
Lab Batch	#: 3037542	Sample: 7637024-1-BSD /	BSD Bate	h: 1 Matrix	: Solid	11	
U nits:	mg/kg	Date Analyzed: 01/04/18 11:28	SU	JRROGATE R	ECOVERY	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	uoromethane	1 11111 y 000	0.0498	0.0500	100	74-126	
1,2-Dichlor	roethane-D4		0.0503	0.0500	101	80-120	
Toluene-D	8		0.0520	0.0500	104	73-132	
Lab Batch	#: 3038649	Sample: 7637669-1-BSD /	BSD Bate	h: 1 Matrix	: Solid	1	
U nits:	mg/kg	Date Analyzed: 01/18/18 16:36	SU	JRROGATE R	ECOVERY	STUDY	
	DRO-O	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	etane		76.2	100	76	70-135	
o-Terpheny	yl		39.7	50.0	79	70-135	
Lab Batch	#: 3037271	Sample: 572194-009 S / M	S Bate	h: 1 Matrix	: Soil	11	
U nits:	mg/kg	Date Analyzed: 12/29/17 16:22	SU	JRROGATE R	ECOVERY	STUDY	
	DRO-O	DRO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	ctane	v	178	199	89	70-135	
	vl		88.4	-			

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	:ders : 572194 #: 3037321	4, Sample: 572190-004 S / MS	Batc	Project ID: h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 01/02/18 14:05		RROGATE R	ECOVERY S	STUDY	
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane	_	0.0510	0.0500	102	74-126	
1,2-Dichlor	oethane-D4		0.0557	0.0500	111	80-120	 I
Toluene-D8	;		0.0513	0.0500	103	73-132	
Lab Batch	#: 3037396	Sample: 572221-007 S / MS	Batc	h: 1 Matrix	: Soil	11	
Units:	mg/kg	Date Analyzed: 01/03/18 10:23	SURROGATE RECOVERY STUDY				
BTEX by SW 8260B Analytes			Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu			0.0517	0.0500	103	74-126	
1.2-Dichlor			0.0552	0.0500	110	80-120	
Toluene-D8			0.0508	0.0500	102	73-132	
	#: 3037542	Sample: 572221-024 S / MS	Batc		-	15-152	
Units:	mg/kg	Date Analyzed: 01/04/18 11:08		RROGATE R		STUDY	
		X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane	1111119 005	0.0541	0.0500	108	74-126	
1,2-Dichlor			0.0563	0.0500	113	80-120	
Toluene-D8			0.0459	0.0500	92	73-132	
Lab Batch	#: 3037271	Sample: 572194-009 SD / M	SD Bate	h: 1 Matrix	: Soil		
U nits:	mg/kg	Date Analyzed: 12/29/17 16:42	SU	RROGATE R	ECOVERY S	STUDY	
		RO By SW8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooc	tane		174	198	88	70-135	
o-Terpheny	1		90.6	99.0	92	70-135	 I

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



Project Name: Polaris B Federal #005

	r ders : 5 7219 #: 3037321	4, Sample: 572190-004 SD / N	MSD Bate	Project ID h: 1 Matrix			
Units:	mg/kg	Date Analyzed: 01/02/18 14:21	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0506	0.0500	101	74-126	
1,2-Dichlor	oethane-D4		0.0524	0.0500	105	80-120	
Toluene-D8	3		0.0538	0.0500	108	73-132	
Lab Batch	#: 3037396	Sample: 572221-007 SD / N	MSD Bate	h: 1 Matrix	: Soil	I	
U nits:	mg/kg	Date Analyzed: 01/03/18 10:40	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by SW 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Dibromoflu	oromethane		0.0517	0.0500	103	74-126	
1,2-Dichlor	oethane-D4		0.0558	0.0500	112	80-120	
Toluene-D8	3		0.0501	0.0500	100	73-132	
Lab Batch	#: 3037542	Sample: 572221-024 SD / N	MSD Bate	h: 1 Matrix	: Soil	I	
U nits:	mg/kg	Date Analyzed: 01/04/18 16:49	SU	RROGATE R	ECOVERY	STUDY	
	BTE	X by SW 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
		Analytes			[D]		
Dibromoflu	oromethane		0.0538	0.0500	108	74-126	
1,2-Dichlor	oethane-D4		0.0576	0.0500	115	80-120	
Toluene-D8	3		0.0460	0.0500	92	73-132	

* Surrogate outside of Laboratory QC limits

- ** Surrogates outside limits; data and surrogates confirmed by reanalysis
- *** Poor recoveries due to dilution
- Surrogate Recovery [D] = 100 * A / B



BS / BSD Recoveries



Page 29 of 60

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Project Name: Polaris B Federal #005

Work Order	r#: 572194							Pro	ject ID:			
Analyst:	JTR	D	ate Prepar	red: 01/02/20	18			Date A	nalyzed:	01/02/2018		
Lab Batch ID	Sam	ple: 7636872-1-BKS	Batc	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE / 2	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
Analy	BTEX by SW 8260B	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	ytes	<0.00100	0.100	0.0969	97	0.100	0.0982	98	1	62-132	25	
Toluene		<0.00100	0.100	0.106	106	0.100	0.104	104	2	66-124	25	
Ethylbenz	zene	<0.00100	0.100	0.109	109	0.100	0.104	104	5	71-134	25	
m,p-Xyler	nes	<0.00200	0.200	0.208	104	0.200	0.208	104	0	69-128	25	
o-Xylene		<0.00100	0.100	0.107	107	0.100	0.108	108	1	72-131	25	
Analyst:	JTR	D	ate Prepar	red: 01/03/20	18			Date A	nalyzed:	01/03/2018	•	
Lab Batch ID	Sam	ple: 7636943-1-BKS	Bate	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE / 2	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
Analy	BTEX by SW 8260B	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		<0.00100	0.100	0.0965	97	0.100	0.102	102	6	62-132	25	
Toluene		<0.00100	0.100	0.0983	98	0.100	0.110	110	11	66-124	25	
Ethylbenz	zene	<0.00100	0.100	0.0981	98	0.100	0.109	109	11	71-134	25	
m,p-Xyler	nes	<0.00200	0.200	0.198	99	0.200	0.215	108	8	69-128	25	
o-Xylene		< 0.00100	0.100	0.101	101	0.100	0.111	111	9	72-131	25	

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



Page 30 of 60

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Project Name: Polaris B Federal #005

Work Order	r #: 572194							Pro	ject ID:			
Analyst:	JTR	D	ate Prepar	ed: 01/04/20	18			Date A	nalyzed:	01/04/2018		
Lab Batch ID	: 3037542 Sample: 76370	24-1-BKS	Bate	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K /BLANK	SPIKE /]	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
	BTEX by SW 8260B	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
Analy	ytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Benzene		< 0.00100	0.100	0.102	102	0.100	0.114	114	11	62-132	25	
Toluene		< 0.00100	0.100	0.0920	92	0.100	0.0987	99	7	66-124	25	
Ethylbenz	zene	< 0.00100	0.100	0.0871	87	0.100	0.0998	100	14	71-134	25	
m,p-Xyle	nes	< 0.00200	0.200	0.181	91	0.200	0.204	102	12	69-128	25	
o-Xylene		< 0.00100	0.100	0.0869	87	0.100	0.101	101	15	72-131	25	
Analyst:	DHE	D	ate Prepar	red: 01/03/20	18			Date A	nalyzed:	01/03/2018		
Lab Batch ID	: 3037378 Sample: 76368	97-1-BKS	Batc	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K/BLANK	SPIKE /]	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	DY	
Analy	Chloride by EPA 300	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	y 1C5	-1.00	10.0				0.75	0.0	0	80-120	20	
Chioride		<1.00	10.0	9.77	98	10.0	9.75	98	0	80-120	20	<u> </u>

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



Page 31 of 60

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Project Name: Polaris B Federal #005

Work Ord	ler #: 572194							Pro	ject ID:			
Analyst:	DHE	D	ate Prepar	ed: 01/03/20	18			Date A	nalyzed:	01/04/2018		
Lab Batch	ID: 3037379 Sample: 7636898	-1-BKS	Batcl	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K/BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
Ana	Chloride by EPA 300	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
Chlorid	le	<1.00	10.0	9.73	97	10.0	9.68	97	1	80-120	20	
Analyst:	ARL	D	ate Prepar	ed: 12/29/20	17	-		Date A	nalyzed:	12/29/2017	1	4
Lab Batch	ID: 3037271 Sample: 7636744	-1-BKS	Batcl	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K/BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
	DRO-ORO By SW8015B	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
Ana	alytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Gasolir	ne Range Hydrocarbons (GRO)	<15.0	1000	857	86	1000	846	85	1	70-135	35	
Diesel	Range Organics (DRO)	<15.0	1000	917	92	1000	918	92	0	70-135	35	
Analyst:	ARL	D	ate Prepar	ed: 01/18/20	18			Date A	nalyzed: (01/18/2018		
Lab Batch	ID: 3038649 Sample: 7637669	-1-BKS	Batcl	h #: 1					Matrix:	Solid		
Units:	mg/kg		BLAN	K/BLANK	SPIKE /	BLANK	SPIKE DUP	LICATE	RECOV	ERY STU	DY	
A m	DRO-ORO By SW8015B	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
	ne Range Hydrocarbons (GRO)	<15.0	1000	986	99	1000	931	93	6	70-135	35	+
L	Range Organics (DRO)	<15.0	1000	1130	113	1000	1070	107	5	70-135	35	+
Dieser	Runge Organies (DICO)	<15.0	1000	1150	113	1000	10/0	107	5	10-155	55	1

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

Project Name: Polaris B Federal #005

Work Order # :	572194						Project II	D:				
Lab Batch ID:	3037321	QC- Sample ID:	572190	-004 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	01/02/2018	Date Prepared:	01/02/2	018	An	alyst: J	TR					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by SW 8260B	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]	Kesutt [F]	[G]	/0	70K		
Benzene		<0.000998	0.0998	0.0797	80	0.0998	0.0882	88	10	62-132	25	
Toluene		<0.000998	0.0998	0.0850	85	0.0998	0.0948	95	11	66-124	25	
Ethylbenzene		<0.000998	0.0998	0.0824	83	0.0998	0.0928	93	12	71-134	25	
m,p-Xylenes		< 0.00200	0.200	0.165	83	0.200	0.182	91	10	69-128	25	
o-Xylene		<0.000998	0.0998	0.0857	86	0.0998	0.0975	98	13	72-131	25	
Lab Batch ID:	3037396	QC- Sample ID:	572221	-007 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	01/03/2018	Date Prepared:	01/03/2	018	An	alyst: J	TR					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by SW 8260B 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		<0.000998	0.0998	0.0876	88	0.0996	0.0889	89	1	62-132	25	
Toluene		<0.000998	0.0998	0.0922	92	0.0996	0.0926	93	0	66-124	25	
Ethylbenzene		<0.000998	0.0998	0.0890	89	0.0996	0.0900	90	1	71-134	25	
m,p-Xylenes		< 0.00200	0.200	0.180	90	0.199	0.180	90	0	69-128	25	
o-Xylene		<0.000998	0.0998	0.0900	90	0.0996	0.0923	93	3	72-131	25	

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}[(C-F)/(C+F)]$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 22 of 30



Form 3 - MS / MSD Recoveries

Project Name: Polaris B Federal #005

Work Order # :	572194						Project II):				
Lab Batch ID:	3037542	QC- Sample ID:	572221	-024 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	01/04/2018	Date Prepared:	01/04/2	018	Ar	alyst: J	TR					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	BTEX by SW 8260B	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]	itesute [1]	[G]	,,,			
Benzene		<0.000992	0.0992	0.125	126	0.0998	0.129	129	3	62-132	25	
Toluene		< 0.000992	0.0992	0.0829	84	0.0998	0.0851	85	3	66-124	25	
Ethylbenzene		< 0.000992	0.0992	0.0911	92	0.0998	0.0951	95	4	71-134	25	
m,p-Xylenes		< 0.00198	0.198	0.196	99	0.200	0.198	99	1	69-128	25	
o-Xylene		< 0.000992	0.0992	0.0984	99	0.0998	0.0992	99	1	72-131	25	
Lab Batch ID:	3037378	QC- Sample ID:	572194	-001 S	Ba	tch #:	1 Matrix	x: Soil				
Date Analyzed:	01/04/2018	Date Prepared:	01/03/2	018	Ar	alyst: 1	OHE					
Reporting Units:	mg/kg		Ν	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	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]	[C]	[D]	[E]	Kesun [F]	70K [G]	/0	70K	70KI D	
Chloride		4620	489	5130	104	489	5100	98	1	80-120	20	
Lab Batch ID:	3037378	QC- Sample ID:	572225	-002 S	Ba	tch #:	1 Matri	x: Soil		ſ	<u>.</u>	
Date Analyzed:	01/03/2018	Date Prepared:	01/03/2	018	Ar	alyst: 1	OHE					
Reporting Units:	mg/kg		N	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Reporting Units:	mg/kg Chloride by EPA 300	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Reporting Units:				Spiked Sample	Spiked		Duplicate	Spiked		Control		Flag

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}[(C-F)/(C+F)]$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 23 of 30



Form 3 - MS / MSD Recoveries

Project Name: Polaris B Federal #005

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Work Order # :	572194						Project II):				
Lab Batch ID:	3037379	QC- Sample ID:	572194	-010 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	01/04/2018	Date Prepared:	01/03/2	018	An	alyst: I	OHE					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
	Chloride by EPA 300	Parent Sample	Spike	Spiked Sample Result	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		1210	97.1	1290	82	97.1	1290	82	0	80-120	20	
Lab Batch ID:	3037271	QC- Sample ID:	572194	-009 S	Ba	tch #:	1 Matrix	k: Soil				
Date Analyzed:	12/29/2017	Date Prepared:	12/29/2	017	An	alyst: A	ARL					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
D	RO-ORO By SW8015B	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]		/0K [D]	[E]	Acsun [F]	[G]	/0	/01		
Gasoline Range	Hydrocarbons (GRO)	<14.9	1990	1590	80	1980	1730	87	8	70-135	35	
Diesel Range Or	rganics (DRO)	<14.9	1990	1910	96	1980	2030	103	6	70-135	35	

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 24 of 30

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CHAIN OF CUSTODY

Page 1 Of 12

s 1 b 1 b 24a Deliverable Information D 24a Deliverable Information 111 Std QC + Forms 13 (CLP Forms) P Checklist H TIME SAMPLES CHANGE POSSI	0
	0 221/2017 1 122/2017 1 12/2017
SP #3 @ 1' 1 SP #3 @ 2' 2 North B @ 1' 1 Turnaround Time (Business days) 5 Day TAT Same Day TAT 5 Day TAT Turnaround Time (Business days) 5 Day TAT Same Day TAT 5 Day TAT Same Day TAT 5 Day TAT Tat Starts Day EMERGENCY 7 Day TAT 2 Day EMERGENCY 7 Day TAT 12 Day EMERGENCY 7 Day TAT 3 Day EMERGENCY X Contract TAT 13 Day EMERGENCY X Contract TAT 14 Distribution of by Sampler: 5 Day Face Mquished by: 5 State Mquished by: 5 State Mduished by: 5 State Matter States for this document and refinquishment of samples constitutes a Voltes: Signatures of this constitutes a Voltes: Signatures a State of the constitutes a Voltes: Signatures a State of the constitutes a Voltes of the constitutes a Voltes and the constitutes a Voltes a State of the constitutes a Voltes a Signatures a Voltes a Signatures a Voltes a Volte	

Page 25 of 30

Page 35 of 60

LABORATORIES			CH	AIN OF	0		S	CUSTODY	Q										
Setting the Standard since 1990 Stafford,Texas (281-240-4200)	ÿ	San Antonio Texes /24	Tovac (14		Page 1	2 4 M	1.01												
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Commun Name / Reporting Information			Project	Project Information	uo					F	-				F	-		Matrix Codes	
TRC Environmental	Pol	Project Name/Number: Polaris B Federal #0	mber: ral #005															W = Water	
Company Address: 2057 Commerce Drive	Pro	Project Location: Eddy County, New N	2															S = Soil/Sed/Solid	q
Midland, TX 79703										•	_					_		DW = Drinking Water	Vater
Phone No: Ilowry@trcsolutions.com	COO	Invoice To: COG C/O Becky Haskell	laskeil							_								P = Product SW = Surface water	tter
Project Contact: Joel Lowry																	., 0	SL = Sludge OW =Ocean/Sea Water	Water
Samplers's Name Joel Lowry	ovn	Invoice: SRS No. Pending	Pending							00					_		-	WI = Wipe	•
	ပိ	Collection		-		Nimher of preserved hottloo	Dracan	d hottloc									-	W= Waste Wat	-in-
No. Field ID / Point of Collection		-	Γ		E		חובפבו ה		-									A = Air	
	Sample Depth	Date	Time	Matrix bottles	IOH	INO3 Cetate SOU12	HOB HOB	IEOH 9HSO4	ONE	SLOR	XƏT8								
1 South @ 1'	1 12/	12/21/2017	, cr		1		+	+-	N	+			+			-	Field	Field Comments	
2 East @ 1'	1. 12/	12/21/2017	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	+	-	+	-	+		+	< ;		+			_			
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5		+-	+	+			+	-		+		+	-						
0		-	+	-		+	+	+-		-		+	+						
2		-		+		+	+	+		+		+	_						
8		-	+			-	-	+		+			-			_			
6						-	-	+	+	+									
10		+	+	+		+	+	_		-		+	_						
Turnaround Time (Business days)		100		Data Del	Data Deliverable Information	ormation		-		-		-							
Same Day TAT			Level II S	Std OC			avel N/ (Evil Door Pic-	Eul Date			C .	F	Notes:					100 CO	
][rkg /rav	v data)		em	ali: RHa	skell@c	email: RHaskell@concho.com	Jlowry@trcsolutions.com	olutions.co	E	
			Level III Sta QC+ Forms	std QC+ P	orms		TRRP Level IV	/el IV											
Contract TAT	_		Level 3 (Level 3 (CLP Forms)	s)		UST/RG-411	411				-							T
3 Day EMERGENCY			TRRP Checklist	ecklist								+							Τ
TAT Starts Day received by Lab, if received by 5:00 pm	md													ED EV LIDO. T					
Relinquished by Sampler: CUSTODY MUST BE DOCUMENTED BELOW EACH T	MUST BE DOCUM	ENTED BELO		ME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY	ES CHANG	E POSSES	SION, INCL	UDING CC	URIER DI	ELIVERY				S: Frack	# Bu				
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													June fin		in ny venue r	UT NOT ALIAIYZEU V	will be invoice	d at \$5 per sample.	These

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Page 26 of 30

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Inter-Office Shipment

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Page 1 of 2

IOS Number 1053904

Date/Time:	12/28/17 18:02
Lab# From:	Lubbock
Lab# To:	Houston

Created by: Brenda Ward Delivery Priority:

771105606137

Air Bill No.:

Please send report to: Kelsey Brooks

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424 Phone:

E-Mail: kelsey.brooks@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
572194-001	S	SP #1 @ SUR.	12/21/17 08:00	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-002	S	SP #1 @ 1'	12/21/17 08:05	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-003	S	SP #1 @ 2'	12/21/17 08:10	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-004	S	SP #2 @ SUR.	12/21/17 08:15	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-005	S	SP #2 @ 1'	12/21/17 08:20	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-006	S	SP #2 @ 2'	12/21/17 08:25	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-007	S	SP #2 @ SUR.	12/21/17 08:30	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-008	S	SP #3 @ 1'	12/21/17 08:35	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-009	S	SP #3 @ 2'	12/21/17 08:40	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-009	S	SP #3 @ 2'	12/21/17 08:40	SW8015B_DROORO	DRO-ORO By SW8015B	01/03/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
572194-009	S	SP #3 @ 2'	12/21/17 08:40	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/03/18	01/04/18	KEB	PHCG	
572194-010	S	North B @ 1'	12/21/17 08:45	SW8015B_DROORO	DRO-ORO By SW8015B	01/03/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
572194-010	S	North B @ 1'	12/21/17 08:45	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/03/18	01/04/18	KEB	PHCG	
572194-010	S	North B @ 1'	12/21/17 08:45	SW8021B	BTEX by EPA 8021B	01/03/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
572194-010	S	North B @ 1'	12/21/17 08:45	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-011	S	South @ 1'	12/21/17 08:50	SW8021B	BTEX by EPA 8021B	01/03/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
572194-011	S	South @ 1'	12/21/17 08:50	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/03/18	01/04/18	KEB	PHCG	
572194-011	S	South @ 1'	12/21/17 08:50	SW8015B_DROORO	DRO-ORO By SW8015B	01/03/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
572194-011	S	South @ 1'	12/21/17 08:50	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-012	S	East @ 1'	12/21/17 08:55	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/03/18	01/04/18	KEB	PHCG	
572194-012	S	East @ 1'	12/21/17 08:55	SW8015B_DROORO	DRO-ORO By SW8015B	01/03/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
572194-012	S	East @ 1'	12/21/17 08:55	SW8021B	BTEX by EPA 8021B	01/03/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
572194-012	S	East @ 1'	12/21/17 08:55	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	
572194-013	S	West @ 1'	12/21/17 09:00	SW8015B_DROORO	DRO-ORO By SW8015B	01/03/18	01/04/18	KEB	PHCC10C28 PHCC28C35	
572194-013	S	West @ 1'	12/21/17 09:00	E300_CL	Chloride by EPA 300	01/03/18	01/18/18	KEB	CL	



Inter-Office Shipment

Page 2 of 2

IOS Number 1053904

Date/Time:	12/28/17 18:02	Created by:	Brenda Ward
Lab# From:	Lubbock	Delivery Priority:	
Lab# To:	Houston	Air Bill No.:	771105606137

Please send report to: Kelsey Brooks

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424 Phone:

Hor.

E-Mail: kelsey.brooks@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
572194-013	S	West @ 1'	12/21/17 09:00	SW8021B	BTEX by EPA 8021B	01/03/18	01/04/18	KEB	BR4FBZ BZ BZME EBZ X	
572194-013	S	West @ 1'	12/21/17 09:00	SW8015GRO	TPH GRO by EPA 8015 Mod.	01/03/18	01/04/18	KEB	PHCG	

Inter Office Shipment or Sample Comments:

Drenda Ward

Relinquished By Brenda Ward

Date Relinquished: 12/28/2017

Rene Vandenberghe

Received By:

Date Received: 12/29/2017 10:00

Cooler Temperature: <u>3.6</u>



LABORATORIES

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston IOS #: 1053904

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : hou-068

Sent By:	Brenda Ward	Date Sent:	12/28/2017 06:02 PM
Received By	: Rene Vandenberghe	Date Received:	12/29/2017 10:00 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	3.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 *Custody Seals Signed and dated for Containers/coolers	N/A
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by: Rene Vandenberghe Date: 12/29/2017

Received by OCD: 4/11/2023 2:48:19 PM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 12/27/2017 05:12:00 PM Temperature Measuring device used : IR-3 Work Order #: 572194 Comments Sample Receipt Checklist 1.1 #1 *Temperature of cooler(s)? #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/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 No

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 12/28/2017

N/A

Checklist completed by: Brenda Ward Brenda Ward Checklist reviewed by: Marghoat Kelsev Brooks

Date: 12/31/2017



Project Id:Contact:Joel LowryProject Location:Eddy, Co. NM

Certificate of Analysis Summary 587540

TRC Solutions, Inc, Midland, TX Project Name: Polaris B Federal #005

Date Received in Lab:Tue May-29-18 04:40 pmReport Date:05-JUN-18Project Manager:Kelsey Brooks

	Lab Id:	587540-001	587540-002			
Analysis Requested	Field Id:	North B @ 1' A	South @ 1' A			
Analysis Kequeslea	Depth:					
	Matrix:	SOIL	SOIL			
	Sampled:	May-24-18 11:00	May-24-18 11:05			
Chloride by EPA 300	Extracted:	Jun-01-18 15:00	Jun-01-18 15:00		Î	
	Analyzed:	Jun-04-18 12:17	Jun-04-18 12:54			
	Units/RL:	mg/kg RL	mg/kg RL			
Chloride		169 25.0	309 50.0			

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kins Joah

Kelsey Brooks Project Manager

Analytical Report 587540

for TRC Solutions, Inc

Project Manager: Joel Lowry

Polaris B Federal #005

05-JUN-18

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-18-26), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab Code: TX00158): Texas (T104704400-18-14) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757) Xenco-Atlanta (LELAP Lab ID #04176) Xenco-Tampa: Florida (E87429) Xenco-Lakeland: Florida (E84098) Received by OCD: 4/11/2023 2:48:19 PM



05-JUN-18

Project Manager: Joel Lowry **TRC Solutions, Inc** 2057 Commerce Midland, TX 79703

Reference: XENCO Report No(s): 587540 **Polaris B Federal #005** Project Address: Eddy, Co. NM

Joel Lowry:

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) 587540. 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. 587540 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,

Kniskoah

Kelsev Brooks 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 587540

TRC Solutions, Inc, Midland, TX

Polaris B Federal #005

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
North B @ 1' A	S	05-24-18 11:00		587540-001
South @ 1' A	S	05-24-18 11:05		587540-002

Released to Imaging: 5/2/2023 7:24:41 AM

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Client Name: TRC Solutions, Inc Project Name: Polaris B Federal #005

Project ID: Work Order Number(s): 587540 Report Date: 05-JUN-18 Date Received: 05/29/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 587540

TRC Solutions, Inc, Midland, TX

Polaris B Federal #005

Sample Id: Lab Sample I	North B @ 1' A d: 587540-001		Matrix: Date Colle	Soil cted: 05.24.18 11.00]	Date Received:05.	.29.18 16.4	0
Analytical M	ethod: Chloride by EPA	A 300]	Prep Method: E3	00P	
Tech:	RNL					% Moisture:		
Analyst:	RNL		Date Prep:	06.01.18 15.00	i	Basis: We	et Weight	
Seq Number:	3052218							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	169	25.0	mg/kg	06.04.18 12.17		1



Certificate of Analytical Results 587540

TRC Solutions, Inc, Midland, TX

Polaris B Federal #005

Sample Id:South @ 1' ALab Sample Id:587540-002		Matrix: Date Collect	Soil ted: 05.24.18 11.05	Date Re	ceived:05.2	29.18 16.40)
Analytical Method: Chloride by EPA Tech: RNL	300			Prep Me % Mois	ethod: E30	0P	
Analyst: RNL		Date Prep:	06.01.18 15.00	Basis:		t Weight	
Seq Number: 3052218 Parameter	Cas Number	Result	RL	Units Anal	ysis Date	Flag	Dil

309

16887-00-6

50.0

0.0

06.04.18 12.54

mg/kg

2

Released to Imaging: 5/2/2023 7:24:41 AM



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 LimitSDLSample Detection LimitLOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Clie	ent Sample	BLK	Method Blank	
BKS/LCS	S Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation





QC Summary 587540

TRC Solutions, Inc

Polaris B Federal #005

Analytical Method:	Chloride by EPA 30	0						Pr	ep Metho	1: E30	0P	
Seq Number:	3052218			Matrix:	Solid				Date Pre	p: 06.0	1.18	
MB Sample Id:	7655965-1-BLK		LCS San	nple Id:	7655965-	1-BKS		LCSI	O Sample	Id: 765	5965-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD]	RPD Limit	Units	Analysis Date	Flag

Analytical Method:	Chloride by EPA 30)0						Pr	ep Metho	d: E30	0P	
Seq Number:	3052218			Matrix:	Soil				Date Pre	p: 06.0)1.18	
Parent Sample Id:	587256-005		MS Sar	nple Id:	587256-00)5 S		MSI	O Sample	Id: 587	256-005 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date	Flag
Chloride	15500	250	18200	1080	17600	840	80-120	3	20	mg/kg	06.04.18 15:11	Х

Analytical Method:	Chloride by EPA 30	00						P	rep Meth	od: E30	0P	
Seq Number:	3052218			Matrix:	Soil				Date Pr	ep: 06.0	1.18	
Parent Sample Id:	587540-001		MS Sar	nple Id:	587540-00	01 S		MS	D Sample	e Id: 587	540-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Lim	it Units	Analysis Date	Flag
Chloride			409			97	80-120	0	20		06.04.18 12:29	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Setting the Standard since 1990				2							
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Dallas Texas (214-902-0300)	Midland	nd, Texas (4	Texas (432-704-5251)				2011-2	IIIA, ANZ	r.11061115, ANZONA (480-355-0900)	(0060	
28/540			W	www.xenco.com						Xenco Job #	507 5110
			!	11.12				-			2
Client / Reporting Information			Project Information	mation					Analytical Information	rination	Matrix Codes
nyany Name / Branch; C Environmental Corporation	Project Nan Ppfarris B	Name/Number: s B Federal #005	005								W = Water
npany Address; 7 Commerce Drive and, TX 76703	Project Loo Eddy, Go N	Location: o NM									S = Soil/Sed/Solid GW =Ground Wate DW = Drinking Wa
alt: Phone No; 432-466-4450	hroitea To: COG Opera	To: Jerating C/O Be	ting C/O Becky Haskall								P = Product SW = Surface wat
act Contact: Joel Lowry	Interioree						4				OW =Ocean/Sea W
plers's Name Joel Lowry							хЭ				0 = 0
	Collection	cilon			Number of preserved bottles	ed bottles	M SL				WW= Waste W A = Air
r. Frield I.D. / Point of Collection	Sample Depth			13 13 14	HOI BIEJEE BIEJEE BIEJEE BIEJEE	HD3 ¥OSHI	BH 80	hlorid 8 X3T			
North B @ 1' A	5/2	αŏ	1	HH	SH IH	BN BN					Field Comments
South @ 1' A	-	80	-					×			-
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Same Day TAT			Level JI Std QC		Level IV	Level IV (Full Data Pkg Iraw data)	g Iraw data	0	ilowry@	llowry@tresolutions.com	
Next Day EMERGENCY			Level III Std QC+ Forms	IC+ Forms	TRRP Level IV	evelIV			maske	maskeli@concho.com	
2 Day EMERGENCY			Level 3 (CLP Forms)	Forms)	UST / RG-411	G.–∳11			zconder	zconder@ircsolutions.com	
3 Day EMERGENCY		Ū	TRRP Checklist						dneel2.6	dneel2@concho.com	
TAT Starts Day received by Lab, if received by 5:00 pm	E								FED-EX	FED-EX / UPS: Tracking #	
SAMPLE CUSTODY MUST BE DOCUMENT Updut Shed by Sampler.	DY MUST BE DOCUME Date Time:	8	EACH TIME SA	MPLES CHANGE	BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY Received But	UDING COURIE	R DELIVER		-		
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A Mailer

Received by OCD: 4/11/2023 2:48:19 PM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: TRC Solutions, Inc Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Date/ Time Received: 05/29/2018 04:40:00 PM Temperature Measuring device used : IR-3 Work Order #: 587540 Comments Sample Receipt Checklist 3.4 #1 *Temperature of cooler(s)? #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/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

#16 All samples received within hold time? #17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

#15 Sufficient sample amount for indicated test(s)?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 05/30/2018

Yes

Yes

No

N/A

Checklist completed by: Checklist reviewed by: Kelsev Brooks

Date: 06/01/2018



Figure 1 - View of affected area prior to excavation activities, facing South.



Figure 2 - View of affected prior to excavation activities, facing North.



Figure 4 - View of affected area after excavation activities, facing South.



Figure 6 - View of affected area after remediation activities, facing South.



Figure 7 - View of affected area after remediation activities, facing North.



Figure 8 - View of affected area after remediation activities, facing Southeast.

NM OIL CONSERVATION

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						ARTE	SIA DISTR	lict	
<u>District I</u> 625 N. French Dr., Hobbs, NM 88240 <u>District II</u>)	State Energy Mine		New Mex and Natura		SEP	29 20		Form C-141 Revised August 8, 2011
11 S. First St., Artesia, NM 88210 District III 000 Rio Brazos Road, Aztec, NM 874 District IV	10			vation Div St. Franc		SRE	CEIVE	appropr ordance v	iate District Office in vith 19.15.29 NMAC.
220 S. St. Francis Dr., Santa Fe, NM	37505			e, NM 875					
	Rele	ase Notifica	tion	and Co	orrective A	ction			
NAB1727251523	3			OPERA'	ΓOR	[🛛 Initia	l Report	🔲 Final Repo
Name of Company: COG Op	erating LLC [bert McNeill	12			
Address: 600 West Illinois Av Facility Name: POLARIS B F				Facility Typ	No. 432-230-007	7			
Surface Owner: Federal		Mineral Ow					API No.	30-015-3	34707
				N OF RE	LEASE				
Unit Letter Section Towns P 09 17S		Fect from the 330		South Line	Feet from the 330		est Line ast		County Eddy
	<u> </u>	Latitude 32.8	42742	9 Longitude	- 103.9695206				
		NATU	JRE	OF REL	EASE				
Type of Release: Produced Water & Oil				Volume of	Release: W; 10 bbls Oil		Volume R 38 bbls P		- 01
Source of Release:					lour of Occurrence		Date and I		
Tank Overflow Was Immediate Notice Given?	· · · ·			9-26-2017		l	<u>9-26-2017</u>	9:00 am	
was infineurate Notice Given?	🛛 Yes 🗌	No 🗌 Not Requ	uired		aver/Shelly Tuck	er			
By Whom? Becky Haskell					lour: 9/26/2017 0				
Was a Watercourse Reached?	🗌 Yes 🛛	No *		IF YES, Vo	olume Impacting t	he Water	course.		
If a Watercourse was Impacted, D				1			,		
Describe Cause of Problem and R The release occurred when the tr Describe Area Affected and Clear The release occurred within the li any possible impact from the rele activities. I hereby certify that the informati regulations all operators are requi public health or the environment. should their operations have faile or the environment. In addition, I federal, state, or local laws and/or	ansducer failed nup Action Tal ned facility. Va ase and we wil on given above red to report an The acceptance d to adequately NMOCD accep	causing the water t ten.* couum trucks were of present a remediat is true and complet ad/or file certain relove to of a C-141 report investigate and rem	dispato ion wo te to th ease no by the nediate	ched to recov ork plan to th ne best of my otifications a e NMOCD m e contaminati	er all standing flui e NMOCD for app knowledge and u nd perform correc arked as "Final Ro on that pose a thro	id. Conc proval pr nderstand tive actic eport" do eat to gro	ho will have ior to any d that purse ons for releves not reliven ound water	significant uant to NN ases which eve the ope , surface w	remediation 10CD rules and 1 may endanger erator of liability ater, human health
	-				OIL CON	SERV	ATION	DIVISI	ON
Signature: D	~				Sim	ed By	\$1.L	K	
Printed Name: Dakota Neel			·····	Approved by	Environmental S	pecialist:		<u></u>	
Title: HSE Coordinator					$(1) \land (1) \land (1)$				1 1
				Approval Da	<u>a: 412411'</u>	E	xpiration I	Date: N	<u>IH</u>
E-mail Address: <u>dneel2@concho.</u> Date: September 29, 2017	com	Please n Please n Ud6-2010 Conserva updated i <u>http://ww</u>		Conditions o	F Approvak	LE NH	xpiration I TICha	Date: N Attache	ALH ADJULA

Operator/Responsible Party,

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

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

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in <u>ARTESIA</u> on or before 10/29/201? If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

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

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

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.

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

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

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

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

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

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

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

Bratcher, Mike, EMNRD

From:	Dakota Neel <dneel2@concho.com></dneel2@concho.com>
Sent:	Friday, September 29, 2017 9:28 AM
То:	Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD; stucker@blm.gov
Cc:	James_Amos@blm.gov; Robert McNeill; Rebecca Haskell
Subject:	(C-141 Initial) Polaris B Federal #005 9-26-2017 (30-015-34707)
Attachments:	C-141 Initial Polaris B Federal #005 9-26-2017 (30-015-34707).pdf

Ms. Weaver / Ms. Tucker,

Please find the attached Initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank You,

Dakota Neel HSE Coordinator COG Operating LLC Cell: <u>432-215-2783</u> dneel2@concho.com

2407 Pecos Ave. Artesia , NM 88210



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District I 1625 N. French Dr., Hobbs, NM 88240 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

District IV 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

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	206462
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
bhall	None	5/2/2023

Page 60 of 60

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Action 206462