



DELINEATION WORKPLAN

CHEVRON – NORTH WEST ABO UNIT BATTERY

(Leak Date: 12/28/17)

RP # 1RP-4930

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4930.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

Chevron will remediate the spill area as depicted on the following site diagram. The leak area near SP1 – SP5 and SP7 (pink shade on diagram) will be excavated to a depth of 6 inches. The leak area near SP6 (green shade on diagram) will be excavated to a depth of 2 feet.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Chevron, North West Abo Unit Battery

Leak date: 12/28/2017
Lea County, NM
API# see attached C-141
1RP-4930

Legend

- 2 ft Excavation
- 6 in Scrape
- Cardinal sample points
- Leak Area
- Sample points



Chevron, North West Abo Unit Battery

Sample points

SP1, N 32.81484 W-103.56479

SP2, N 32.81478 W-103.56463

SP3, N 32.81475 W-103.56453

SP4, N 32.81468 W-103.56450

SP5, N 32.81468 W-103.56463

SP6, N 32.81466 W-103.56468

SP7, N 32.81474 W-103.56467

NORTH, N 32.81486 W-103.56470

SOUTH, N 32.81463 W-103.56464

EAST, N 32.81472 W-103.56443

WEST, N 32.81483 W-103.56484



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 03616 S6	L	LE		4	4	3	21	17S	34E	634177	3631573*	321	232	105	127
L 03398	L	LE		2	2	28	17S	34E	634888	3631285*	568	242	125	117	
L 03616 S3	L	LE		2	2	4	21	17S	34E	634974	3632189*	708	242	121	121
L 06897	L	LE		3	4	2	21	17S	34E	634768	3632392*	767	176	118	58
L 03616 S5	L	LE		4	3	1	22	17S	34E	635370	3632398*	1142	245	138	107
L 02724 S	L	LE		4	4	3	22	17S	34E	635739	3631673	1258	242	110	132
L 02724 POD9	L	LE		4	4	3	22	17S	34E	635785	3631601*	1307	240	170	70
L 04624	L	LE		1	1	21	17S	34E	633659	3632876*	1449	186	170	16	
L 03616 S4	L	LE		4	1	22	17S	34E	635674	3632507*	1451	244	105	139	
L 06760	L	LE		1	1	1	22	17S	34E	635163	3633000*	1485	162	98	64
L 02724 POD10	L	LE		1	4	4	27	17S	34E	635884	3630725	1698	250	164	86

Average Depth to Water: **129 feet**

Minimum Depth: **98 feet**

Maximum Depth: **170 feet**

Record Count: 11

UTMNAD83 Radius Search (in meters):

Easting (X): 634480

Northing (Y): 3631681

Radius: 1700

*UTM location was derived from PLSS - see Help

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

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: "
Latitude (Y): Degrees: ° Minutes: ' Seconds: "

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X): mtrs Northing (Y): mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
North Vacuum Abo West Battery

		Sample ID	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'
Analyte	Method	Date	5/25/18	5/25/18	5/25/18	5/25/18	5/25/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		64	32	16	16	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1120	1810	174	451	11.8
EXT DRO	TPH 8015M		292	456	63	153	<10.0

		Sample ID	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	5/29/18	5/30/18	5/30/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500CI-B		112	528	480
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		183	101	21.6
EXT DRO	TPH 8015M		96.9	30.8	<10.0

		Sample ID	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	5/25/18	5/25/18	5/25/18	5/25/18	5/25/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		144	16	48	16	80
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		2490	310	69.1	<10.0	16.4
EXT DRO	TPH 8015M		587	93.9	32.2	<10.0	<10.0

		Sample ID	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	5/30/18	5/30/18	5/30/18	5/30/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		2080	656	576	160
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		2460	12.1	<10.0	<10.0
EXT DRO	TPH 8015M		674	<10.0	<10.0	<10.0

		Sample ID	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	5/29/18	5/29/18	5/29/18	5/29/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		32	48	48	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1060	473	24.6	16.7
EXT DRO	TPH 8015M		280	117	<10.0	<10.0

		Sample ID	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'	SP7 @ 5'
Analyte	Method	Date	5/31/18	5/31/18	5/31/18	5/31/18	5/31/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		32	64	32	64	368
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		411	182	<10.0	38.9	421
EXT DRO	TPH 8015M		53.6	30.6	<10.0	<10.0	119

		Sample ID	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	5/29/18	5/29/18	5/29/18	5/29/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		144	64	48	48
GRO	TPH 8015M		<50.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		2780	466	<10.0	<10.0
EXT DRO	TPH 8015M		674	82	<10.0	<10.0

		Sample ID	NORTH	EAST	WEST	SOUTH
Analyte	Method	Date	5/31/18	5/31/18	5/31/18	5/31/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		32	80	64	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		14.2	11.8	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

June 11, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NORTH VACUUM ABO

Enclosed are the results of analyses for samples received by the laboratory on 06/04/18 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 1 @ 1' (H801507-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57			
DRO >C10-C28*	1120	10.0	06/04/2018	ND	194	97.1	200	3.45			
EXT DRO >C28-C36	292	10.0	06/04/2018	ND							

Surrogate: 1-Chlorooctane 92.2 % 41-142
Surrogate: 1-Chlorooctadecane 156 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 1 @ 2' (H801507-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57			
DRO >C10-C28*	1810	10.0	06/04/2018	ND	194	97.1	200	3.45			
EXT DRO >C28-C36	456	10.0	06/04/2018	ND							

Surrogate: 1-Chlorooctane 91.0 % 41-142

Surrogate: 1-Chlorooctadecane 210 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 1 @ 3' (H801507-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	174	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	63.0	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 95.8 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 1 @ 4' (H801507-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	451	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	153	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 1 @ 5' (H801507-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	11.8	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	<10.0	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 79.9 % 41-142

Surrogate: 1-Chlorooctadecane 76.7 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 2 @ 1' (H801507-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<50.0	50.0	06/04/2018	ND	187	93.3	200	2.57			
DRO >C10-C28*	2490	50.0	06/04/2018	ND	194	97.1	200	3.45			
EXT DRO >C28-C36	587	50.0	06/04/2018	ND							

Surrogate: 1-Chlorooctane 69.2 % 41-142

Surrogate: 1-Chlorooctadecane 201 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 2 @ 2' (H801507-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	310	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	93.9	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 2 @ 3' (H801507-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	69.1	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	32.2	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 88.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 2 @ 4' (H801507-09)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	<10.0	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	<10.0	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/25/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 2 @ 5' (H801507-10)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	16.4	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	<10.0	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 82.0 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 3 @ 1' (H801507-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	1060	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	280	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 89.2 % 41-142

Surrogate: 1-Chlorooctadecane 147 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 3 @ 2' (H801507-12)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	473	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	117	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 3 @ 3' (H801507-13)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/04/2018	ND	187	93.3	200	2.57		
DRO >C10-C28*	24.6	10.0	06/04/2018	ND	194	97.1	200	3.45		
EXT DRO >C28-C36	<10.0	10.0	06/04/2018	ND						

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 80.0 % 37.6-147

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 3 @ 4' (H801507-14)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	16.7	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 95.5 % 41-142

Surrogate: 1-Chlorooctadecane 92.7 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 4 @ 1' (H801507-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74	
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11	
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67	
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32	
Total BTEX	<0.300	0.300	06/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/06/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	2780	50.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	674	50.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 92.0 % 41-142

Surrogate: 1-Chlorooctadecane 246 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 4 @ 2' (H801507-16)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	466	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	82.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 94.8 % 41-142

Surrogate: 1-Chlorooctadecane 120 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 4 @ 3' (H801507-17)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.79	89.7	2.00	3.74		
Toluene*	<0.050	0.050	06/05/2018	ND	1.77	88.7	2.00	4.11		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	1.83	91.5	2.00	2.67		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.59	93.2	6.00	2.32		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	<10.0	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 82.9 % 41-142

Surrogate: 1-Chlorooctadecane 79.5 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 4 @ 4' (H801507-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	<10.0	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 87.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.6 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/29/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 5 @ 1' (H801507-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	183	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	96.9	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 90.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.0 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/30/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 5 @ 2' (H801507-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	101	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	30.8	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 80.5 % 41-142

Surrogate: 1-Chlorooctadecane 85.1 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/30/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 5 @ 3' (H801507-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47	
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67	
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98	
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50	
Total BTEX	<0.300	0.300	06/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/06/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53	
DRO >C10-C28*	21.6	10.0	06/05/2018	ND	183	91.7	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND					

Surrogate: 1-Chlorooctane 78.9 % 41-142

Surrogate: 1-Chlorooctadecane 78.2 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/30/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 6 @ 1' (H801507-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47	
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67	
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98	
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50	
Total BTEX	<0.300	0.300	06/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	06/06/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	2460	50.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	674	50.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 92.5 % 41-142

Surrogate: 1-Chlorooctadecane 243 % 37.6-147

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Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/30/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 6 @ 2' (H801507-23)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	12.1	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/30/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 6 @ 3' (H801507-24)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	<10.0	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 83.3 % 37.6-147

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 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/30/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 6 @ 4' (H801507-25)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	<10.0	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 90.6 % 41-142

Surrogate: 1-Chlorooctadecane 87.1 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 7 @ 1' (H801507-26)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	411	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	53.6	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 90.0 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 7 @ 2' (H801507-27)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	182	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	30.6	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 95.3 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 7 @ 3' (H801507-28)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	<10.0	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 82.2 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 7 @ 4' (H801507-29)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	38.9	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: 7 @ 5' (H801507-30)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	421	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	119	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 71.9 % 41-142

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

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Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: NORTH (H801507-31)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	14.2	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 80.7 % 41-142

Surrogate: 1-Chlorooctadecane 79.8 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: EAST (H801507-32)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47	
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67	
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98	
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50	
Total BTEX	<0.300	0.300	06/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/06/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53	
DRO >C10-C28*	11.8	10.0	06/05/2018	ND	183	91.7	200	6.20	
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND					

Surrogate: 1-Chlorooctane 78.5 % 41-142

Surrogate: 1-Chlorooctadecane 75.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: WEST (H801507-33)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	184	91.9	200	4.53		
DRO >C10-C28*	<10.0	10.0	06/05/2018	ND	183	91.7	200	6.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 73.7 % 41-142

Surrogate: 1-Chlorooctadecane 71.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	06/04/2018	Sampling Date:	05/31/2018
Reported:	06/11/2018	Sampling Type:	Soil
Project Name:	NORTH VACUUM ABO	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON		

Sample ID: SOUTH (H801507-34)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/05/2018	ND	1.98	98.8	2.00	5.47		
Toluene*	<0.050	0.050	06/05/2018	ND	2.01	100	2.00	5.67		
Ethylbenzene*	<0.050	0.050	06/05/2018	ND	2.03	101	2.00	6.98		
Total Xylenes*	<0.150	0.150	06/05/2018	ND	5.88	98.0	6.00	6.50		
Total BTEX	<0.300	0.300	06/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/06/2018	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2018	ND	209	105	200	0.669		
DRO >C10-C28*	<10.0	10.0	06/05/2018	ND	226	113	200	0.0120		
EXT DRO >C28-C36	<10.0	10.0	06/05/2018	ND						

Surrogate: 1-Chlorooctane 65.1 % 41-142

Surrogate: 1-Chlorooctadecane 70.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report





ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: <i>Chevron</i>		City:													
Project Name: <i>North Vacuum Abo</i>		State: Zip:													
Project Location:		Phone #:													
Sampler Name: <i>Jeff Omelas</i>		Fax #:													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TYP	EXT	CL
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
<i>H801507</i>																	
<i>11</i>	<i>3 @ 1'</i>	<i>6</i>										<i>5/29/18</i>	<i>930</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>12</i>	<i>3 @ 2'</i>	<i>6</i>										<i>5/29/18</i>	<i>952</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>13</i>	<i>3 @ 3'</i>	<i>6</i>										<i>5/29/18</i>	<i>1030</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>14</i>	<i>3 @ 4'</i>	<i>6</i>										<i>5/29/18</i>	<i>1050</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>15</i>	<i>4 @ 1'</i>	<i>6</i>										<i>5/29/18</i>	<i>1130</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>16</i>	<i>4 @ 2'</i>	<i>6</i>										<i>5/29/18</i>	<i>1149</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>17</i>	<i>4 @ 3'</i>	<i>6</i>										<i>5/29/18</i>	<i>1248</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>18</i>	<i>4 @ 4'</i>	<i>6</i>										<i>5/29/18</i>	<i>122</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>19</i>	<i>5 @ 1'</i>	<i>6</i>										<i>5/29/18</i>	<i>215</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	
<i>20</i>	<i>5 @ 2'</i>	<i>6</i>										<i>5/30/18</i>	<i>833</i>	<i>1/1</i>	<i>1/1</i>	<i>1/1</i>	

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Relinquished By: <i>Jeff Omelas</i>	Date: <i>6/1/18</i> Time: <i>4:00</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: <i>6-4-18</i> Time: <i>3:10</i>	Received By: <i>Jawara Olatun</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) <i>-3.1c</i>	Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <i>10-#15</i>	REMARKS: <i>Has some head space</i>

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #:		City:													
Project Name: North Vacuum H2O		State: Zip:													
Project Location:		Phone #:													
Sampler Name: Jeff Ornelas		Fax #:													

Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TPA EXT	BTEX	CL
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:						
H801507																	
21	5 @ 3'	6										5/30/18	922				
22	6 @ 1'	6										5/31/18	938				
23	6 @ 2'	6										5/30/18	959				
24	6 @ 3'	6										5/30/18	1144				
25	6 @ 4'	6										5/30/18	111				
26	7 @ 1'	6										5/31/18	850				
27	7 @ 2'	6										5/31/18	940				
28	7 @ 3'	6										5/31/18	1059				
29	7 @ 4'	6										5/31/18	1148				
30	7 @ 5'	6										5/31/18	111				

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Relinquished By: Jeff Ornelas	Date: 6/1/18	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:00		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 6-4-18	Received By: Jennifer Odatok	REMARKS:	
	Time: 3:10			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -3.1c	Sample Condition: Cool <input type="checkbox"/> Intact <input type="checkbox"/>	CHECKED BY: (Initials) TO-#15	Has some head space	
Corrected -3.15c	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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4 of 4



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson		P.O. #:													
Address: P.O. Box 805		Company:													
City: Hobbs State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397		Address:													
Project #: Project Owner: <i>Cherion</i>		City:													
Project Name: <i>North Vacuum Hbo</i>		State: Zip:													
Project Location:		Phone #:													
Sampler Name: <i>Jeff Ormedas</i>		Fax #:													

FOR LAB USE ONLY		(G)RAB OR (C)OMP. #	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	TPT EXT	BTEX	CL
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
<i>H801507</i>																		
<i>31</i>	<i>North</i>	<i>6</i>	<i>1</i>										<i>8/31/18</i>	<i>130</i>	<i>///</i>	<i>///</i>	<i>///</i>	
<i>32</i>	<i>East</i>	<i>6</i>	<i>1</i>										<i>5/31/18</i>	<i>190</i>	<i>///</i>	<i>///</i>	<i>///</i>	
<i>33</i>	<i>West</i>	<i>6</i>	<i>1</i>										<i>5/31/18</i>	<i>150</i>	<i>///</i>	<i>///</i>	<i>///</i>	
<i>34</i>	<i>South</i>	<i>6</i>	<i>1</i>										<i>5/31/18</i>	<i>215</i>	<i>///</i>	<i>///</i>	<i>///</i>	

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Relinquished By: <i>Jeff Ormedas</i>	Date: <i>6/1/18</i> Time: <i>4:00</i>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: <i>6-4-18</i> Time: <i>3:10</i>	Received By: <i>Jamara Aldrete</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	REMARKS: <i>Has some head space.</i>	
Sampler - UPS - Bus - Other: <i>3.10E</i> <i>Corrected 3.15E</i>	Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>JO #75</i>		

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

State of New Mexico
Energy Minerals and Natural Resources

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.

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company	Chevron USA Inc.	Contact	Josepha DeLeon
Address	6301 Deauville Blvd., Midland, TX 79706	Telephone No.	wk: 575-263-0424 cell: 432-425-1528
Facility Name	North West Abo Unit Battery	Facility Type:	Battery
Surface Owner	State	Mineral Owner	State of New Mexico
		API No.	See attached

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	21	17S	34E					Lea

Latitude 32.814740 Longitude; -103.564660

NATURE OF RELEASE

Type of Release	Spill	Volume of Release:	1.52 barrels oil; 11.06 barrels produced water	Volume Recovered:	1 barrels oil 10 barrels produced water
Source of Release	Water pump failure	Date and Hour of Occurrence	12/28/2017; 05:12 AM	Date and Hour of Discovery	12/28/2017; 08:00 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Olivia Yu / Maxey Brown - email		
By Whom?	Josepha DeLeon	Date and Hour:	12/28/2017; 10:08 AM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

RECEIVED
By Olivia Yu at 3:16 pm, Jan 12, 2018

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Loss of power causing an interruption in instrument air supply, water pump failure and resulting in a release of 1.52 barrels oil and 11.06 barrels produced water to caliche pad. Recovered 1 barrel of oil and 10 barrels produced water.

Describe Area Affected and Cleanup Action Taken.*
Spill within Tank Battery's caliche pad. None of the material went off the pad. Remediation to follow. Shut lease in. Vacuum truck extracted liquid. Manually opened valve to equalize to other tanks.

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

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	Josepha DeLeon	Approved by Environmental Specialist:	
Title:	HES Compliance Support - Environmental	Approval Date:	1/12/2018
E-mail Address:	jdxd@chevron.com	Expiration Date:	
Date	01/11/2018	Conditions of Approval:	see attached directive
Phone:	432-425-1528	Attached	<input checked="" type="checkbox"/>

* Attach Additional Sheets If Necessary

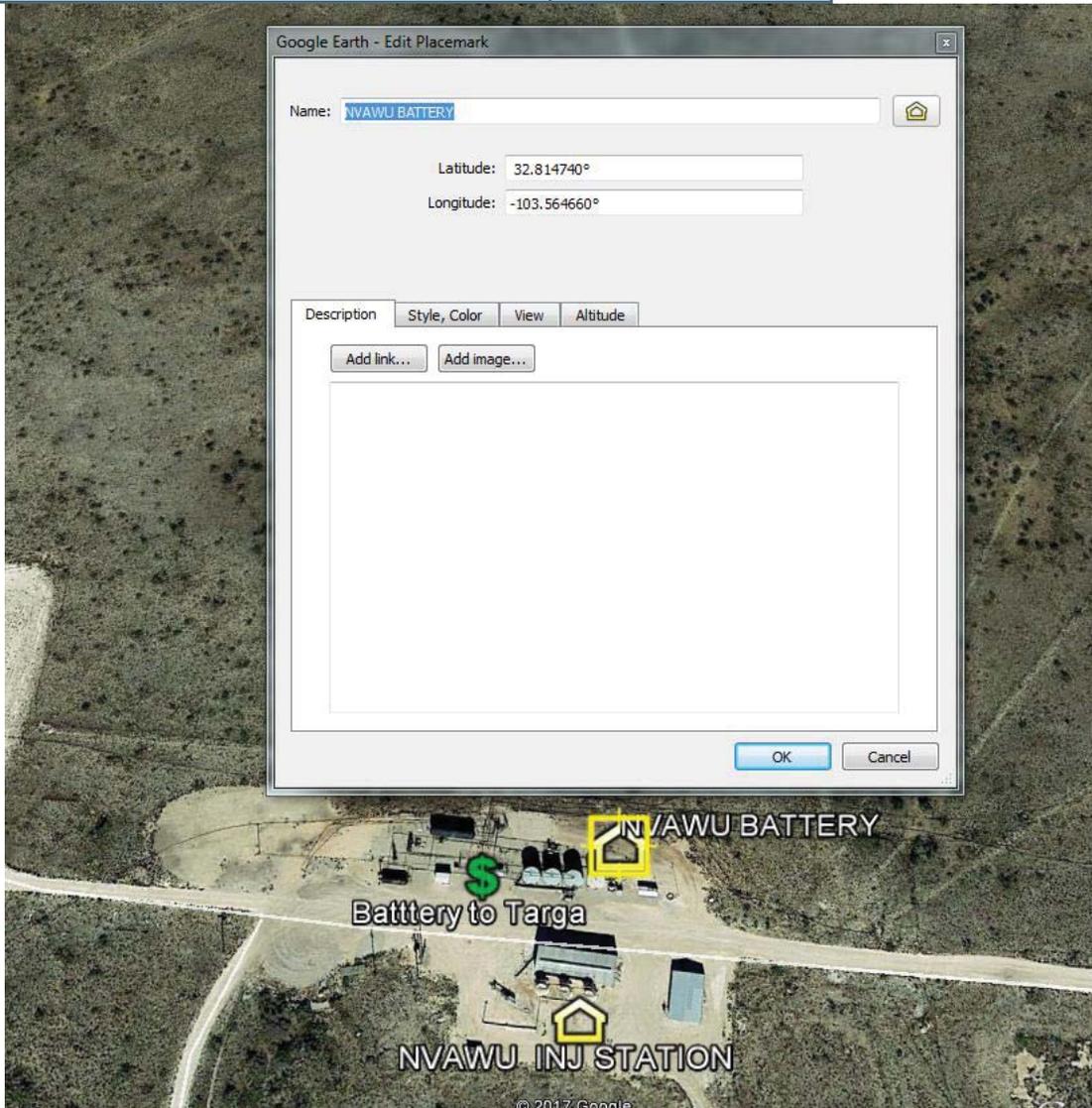
foY1801255161

1RP-4930

nOY1801255310

pOY1801255305

NVAWU 01	3002525652
NVAWU 11 2	3002524019
NVAWU 30	3002533987
NVAWU 31	3002533988
NVAWU 06 H	3002524026
NVAWU 08	3002524061
NVAWU 09	3002524064
NVAWU 10H	3002524062
NVAWU 13	3002524046
NVAWU 14	3002523944
NVAWU 19	3002523880
NVAWU 29H	3002534668
NVAWU 20H	3002523915
NVAWU 23	3002524050
NVAWU 24H	3002524087
NVAWU 26	3002533637
NVAWU 27	3002533638
NVAWU 28H	3002533926
NVAWU 32	3002534094



Operator/Responsible Party,

The OCD has received the form C-141 you provided on 1/11/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4930 has been assigned. **Please refer to this case number in all future correspondence.**

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 division-approved corrective action 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 1 office in Hobbs on or before 2/12/2018. 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
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