

March 3, 2015

Oil Conservation Division District 2 – Artesia 811 S. First St. Artesia, NM 88210

Re: GJ West Coop #92 Battery Sec. 28, T17S-R29E Eddy County, NM

Mr. Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 initial report dated December 3, 2014.

Background

The release was caused by a gasket failure on the fire tube of the heater treater resulting in the release of 9 barrels of oil and 14 barrels of produced water of which 8 barrels of oil and 10 barrels of produced water were recovered. The majority of the fluid was contained within the lined facility and some of the fluid impacted a portion of the pad and the nearby pasture. Upon discovery of the release and recovery of the standing fluid, the impacted pasture was treated with Micro Blaze® and the pad was scraped.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at greater than 150'.

Soil Assessment and Analytical Results

Initial soil samples were taken on December 9, 2014 with the results and approximate locations depicted on the attached Site Diagram as S1, S2, and Pad.

Sample results indicate that TPH and BTEX are within RRAL's for S1 and the Pad. S2 sample results indicate elevated BTEX levels at a depth of 1' and drop below RRAL's at a depth of 2'. Chloride levels for all sample points are elevated to a depth of 2'.

Work Plan

COG Operating LLC proposes the following remediation plan:

- **S1**: Excavate to a depth 2.5' due to elevated chloride results.
- **S2:** Excavate to a depth of 2.5' due to elevated chloride results.
- **Pad:** The area is a high traffic area during normal operations of the facility and the existing lease road; therefore we are proposing no excavation until time of abandonment. Groundwater is greater than 150'.

All impacted material excavated will be hauled to an approved NMOCD facility for disposal. Although the topography of the area is of a dunal complex with not much vegetation between dunes or impacted areas, the excavated or disturbed areas will be reseeded in the spring of 2015.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,

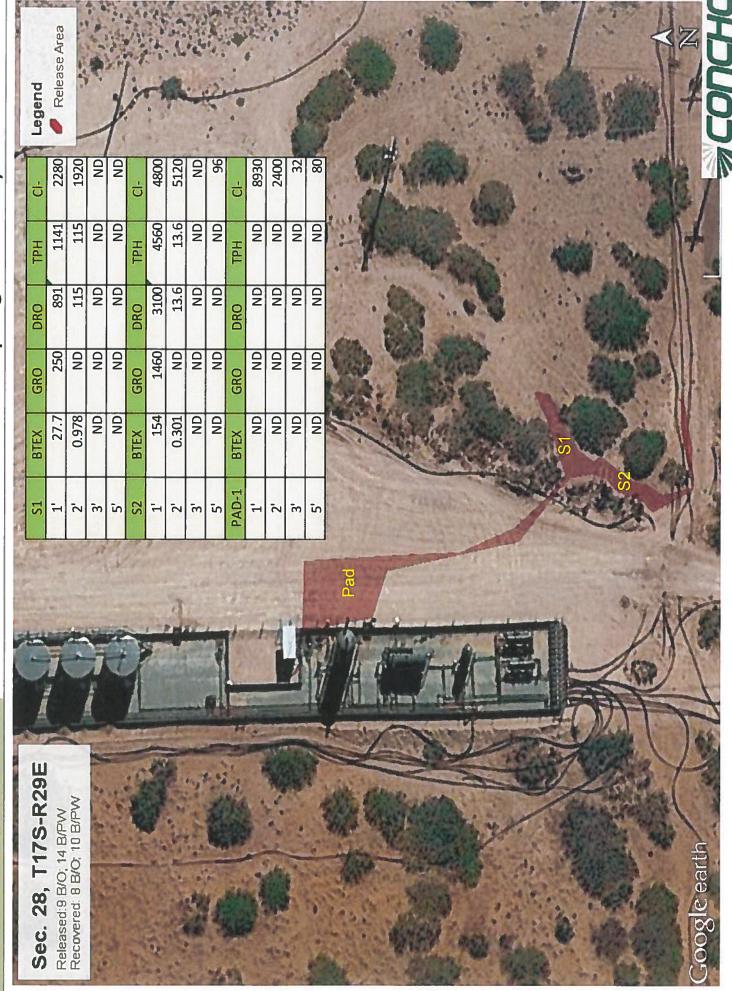
Lupe Carrasco

Environmental Coordinator

Enclosed:

- (1) Site Diagram and Summary Table
- (2) Laboratory Analysis
- (3) C-141 Initial (copy)

GJ West Coop #92 Battery





December 17, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: GJ WEST COOP #92 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/12/14 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number: Project Location: NONE GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S 1 - 1' (H403798-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/16/2014	ND	1.81	90.3	2.00	10.1	
Toluene*	6.31	0.500	12/16/2014	ND	1.76	87.8	2.00	10.6	
Ethylbenzene*	9.83	0.500	12/16/2014	ND	1.67	83.4	2.00	11.8	
Total Xylenes*	11.6	1.50	12/16/2014	ND	5.02	83.6	6.00	12.5	
Total BTEX	27.7	3.00	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Resuit	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	250	100	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	891	100	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	104 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.5	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Z. Keina



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S 1 - 2' (H403798-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS			<u>.</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.81	90.3	2.00	10.1	
Toluene*	0.110	0.050	12/16/2014	ND	1.76	87.8	2.00	10.6	
Ethylbenzene*	0.330	0.050	12/16/2014	ND	1.67	83.4	2.00	11.8	
Total Xylenes*	0.538	0.150	12/16/2014	ND	5.02	83.6	6.00	12.5	
Total BTEX	0.978	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 61-154				- -			
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	115	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	97.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.7	% 52.1-170	5						

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S 1 - 3' (H403798-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.81	90.3	2.00	10.1	
Toluene*	<0.050	0.050	12/16/2014	ND	1.76	87.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	12/16/2014	ND	1.67	83.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	12/16/2014	ND	5.02	83.6	6.00	12.5	
Total BTEX	<0.300	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	61-154					11		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	92.6 9	% 47.2-15°	7					- 11	
Surrogate: 1-Chlorooctadecane	89.8 9	6 52.1-170	5						

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Celey Z. Keena



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Received:

12/12/2014

Reported:

DTEV DOSER

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S 1 - 5' (H403798-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.81	90.3	2.00	10.1	
Toluene*	<0.050	0.050	12/16/2014	ND	1.76	87.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	12/16/2014	ND	1.67	83.4	2.00	11.8	
Total Xylenes*	<0.150	0.150	12/16/2014	ND	5.02	83.6	6.00	12.5	
Total BTEX	<0.300	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	6 61-154					100/		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	93.9 9	% 47.2-15°	7						
Surrogate: 1-Chlorooctadecane	92.2 9	52.1-170	5						

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number: Project Location:

NONE GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S 2 - 1' (H403798-05)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.12	1.00	12/16/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	53.0	1.00	12/16/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	46.6	1.00	12/16/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	52.6	3.00	12/16/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	154	6.00	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 %	6 61-154		100					
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1460	100	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	3100	100	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	150 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	121 %	52.1-17	5						

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Celey D. Keena



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Hensori

Sample ID: S 2 - 2' (H403798-06)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	0.225	0.050	12/16/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	0.076	0.050	12/16/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/16/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	0.301	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS			<u></u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	13.6	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	92.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.9	% 52.1-170	6						

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Celeg D. Keine



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S 2 - 3' (H403798-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	<0.050	0.050	12/16/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	<0.050	0.050	12/16/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/16/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	<0.300	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	94.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.6	% 52.1-170	6						

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*=Accredited Analyte

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Celeg T. Keine



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S 2 - 5' (H403798-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	<0.050	0.050	12/16/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	<0.050	0.050	12/16/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/16/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	<0.300	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154						11-11-1	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	92.8	% 47.2-157	7					35 -2-	
Surrogate: 1-Chlorooctadecane	88.2	% 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or

greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

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

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Celey D. Kuna



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Belinquished By: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) out of or related to the performance of services hereunder by Ca Date: Time 5.7 Received By: Cool Intact
Pres Tres
No No Sample Condition upon any of the above stated reasons or otherwise.

Phone Result: CHECKED BY: Fax Result: REMARKS: atrujillo@concho.com, gmerket@concho.com ☐ Yes ☐ No Add'I
☐ Yes ☐ No Add'I
☐ Carrasco@concho.com Add'l Phone #: Add'l Fax #:



December 17, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: GJ WEST COOP #92 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/12/14 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PAD - 1' (H403799-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS		9			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	<0.050	0.050	12/16/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	<0.050	0.050	12/16/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/16/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	<0.300	0.300	12/16/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	94.4 9	% 47.2-15°	7				1.5		
Surrogate: 1-Chlorooctadecane	90.79	52.1-170	5						

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Celey Z. Keine



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

RTEV 9021B

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

ma/ka

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: PAD - 2' (H403799-02)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	<0.050	0.050	12/17/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	<0.050	0.050	12/17/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/17/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	<0.300	0.300	12/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Resuit	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	89.9	% 47.2-15	7			-1			
Surrogate: 1-Chlorooctadecane	85.8	% 52.1-170	5						

Applyred By: MC

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date: Sampling Type: 12/09/2014

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: PAD - 3' (H403799-03)

97	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	12/17/2014	ND	1.82	91.1	2.00	8.15	
<0.050	0.050	12/17/2014	ND	1.79	89.3	2.00	8.31	
<0.050	0.050	12/17/2014	ND	1.70	85.2	2.00	8.56	
<0.150	0.150	12/17/2014	ND	5.18	86.3	6.00	8.51	
<0.300	0.300	12/17/2014	ND					
103 9	61-154							
mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Biank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	12/16/2014	ND	400	100	400	3.92	
mg/	kg	Analyze	d By: MS					
mg/ Result	kg Reporting Limit	Analyzed Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			•	BS 189	% Recovery	True Value QC	RPD 0.361	Qualifier
Result	Reporting Limit	Analyzed	Method Blank		·	•		Qualifier
Result	Reporting Limit 10.0 10.0	Analyzed 12/16/2014 12/16/2014	Method Blank	189	94.3	200	0.361	Qualifier
	<0.050 <0.050 <0.050 <0.150 <0.300 103 9 mg/	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Celeg L. Keine



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

12/12/2014

Reported:

12/17/2014

Project Name:

GJ WEST COOP #92 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

12/09/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: PAD - 5' (H403799-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	<0.050	0.050	12/17/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	<0.050	0.050	12/17/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/17/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	<0.300	0.300	12/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	1019	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Biank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	189	94.3	200	0.361	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	183	91.6	200	8.75	
Surrogate: 1-Chlorooctane	91.1 9	% 47.2-15	7					1,200	
Surrogate: 1-Chlorooctadecane	88.0 9	52.1-170	5						

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Celey Z. Keina



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

BTEX 8021B

12/12/2014

Sampling Date:

12/09/2014

Reported:

12/17/2014

Sampling Type:

Soil

Project Name:

GJ WEST COOP #92 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: PASTURE - 1' (H403799-05)

	9/	149	Allolyzo	34 571110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2014	ND	1.82	91.1	2.00	8.15	
Toluene*	<0.050	0.050	12/17/2014	ND	1.79	89.3	2.00	8.31	
Ethylbenzene*	<0.050	0.050	12/17/2014	ND	1.70	85.2	2.00	8.56	
Total Xylenes*	<0.150	0.150	12/17/2014	ND	5.18	86.3	6.00	8.51	
Total BTEX	<0.300	0.300	12/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AP					
Analyte	Resuit	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/16/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/16/2014	ND	194	96.9	200	3.46	
DRO >C10-C28	<10.0	10.0	12/16/2014	ND	206	103	200	3.31	
Surrogate: 1-Chlorooctane	96.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.5	% 52.1-170	6						

Analyzed By: MS

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Celey D. Keine



Notes and Definitions

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance

limits.

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

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Celey Z. Keina



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Company Name:								300000					1	80		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				ANALTOIS REGOEST	
Project Manager:	Lupe Carrasco						1	+=	P.O. #	1.	1"	1	1								
Address: 2208	2208 West Main								Company:	름	2	×		S	COG Operating LLC	LLC					
ā	State: NM		Zip	_	88210	0			Attn:	12				70	Robert McNeill						
Ф эь	(575) 748-6940 Fax #:							<u> </u>	Address:	7	25	71			600 W Illinois	S					
Project #:	Project Owner	7							City:	×					Midland						
ame:	GJ West COOP #92 Battery								State: TX	큠	H	×		N	Zip: 79701						
Project Location:									3	13	(D)	.17	43	2	Phone #: (432) 221-0388						
Sampler Name:	Lupe Carrasco							L	Fax #:	IX.		l	i .	1							
FOR LAB USE ONLY					Ę	MATRIX	×			P	PRESERV	٩ğ	12		SAMPLING						
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP.	CONTAINERS	ROUNDWATER VASTEWATER	OIL		DIL	SLUDGE	THER	CID/BASE:		CE / COOL	OTHER		DATE		ВТЕХ	ТРН	Chloride		
	Pad-1	×	(1			^								-	12/9/14		×	×	×		
7	Pad-2'	×			_	×				-				-	12/9/14		×	×	×		
10	Pad-3	×				×				-				-	12/9/14		×	×	×		
۲\	Pad-5'	×				×									12/9/14		×	×	×		
8	Pasture-1	×		year years are		×									12/9/14		×	×	×		
PLEASE NOTE: Liability a analyses: All claims includ	PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be facilitied to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 10 days after completion of the applications. All claims including the facilities for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 10 days after completion of the application.	for any da be deem	1 1 1	ang whe	The bar	B 2 2	1 2	2 4 3	0 0 Q	0 1 1	in the same	유민물	2 E	D & B	any claim arising whether besed in contract or tort, shall be firsted to the amount paid by the client for the or deemed wared unless made in writing and received by Cardinal within 30 days after completion of the ap to warpout firstation, business interruptions, loss of use, or loss of profits incurred by client, its subsediaries.	by the client for the completion of the emt, its subsidiari	a spolical	*	ı		
Relinquished By:	out of or related to the performance or	13	8	Received By:	· · ·	1		2	>	2	_		8		ceived By:	Phone Result: Fax Result: REMARKS:	ult:	☐ Yes ☐ Yes Carrascu	Yes Yes	☐ Yes ☐ No Add'l Phone #: ☐ Yes ☐ No Add'l Fax #: Calrasco@concho.com	
	O:1	S		2	-	1	7	-	6		5		C	7	1	atrujillo@c	conc	00.00	m Q	atrujillo@concho.com; gmerket@concho.com	

Delivered By: (Circle One)
FORM 206 R 20
Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Pyes Pyes
No No

CHECKED BY:

Time:

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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

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

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

Form C-141

Revised August 8, 2011

			Rel	ease Notific	cation	and Co	rrective A	ction				
						OPERA			✓ Initia	ıl Report		Final Repo
		COG Operati		J TV 70701			bert McNeill	77				
		st Coop #92		nd TX 79701		Facility Typ	No. 432-230-00' e: Battery	//				
Surface Ow				Mineral (API No			
Surface Ow	ner: State								APINO	•		
TT-14 T -44	G - A'-	m 1 - 1	l p			OF REI		E /317	4 7 1		<u> </u>	
Unit Letter J	Section 28	Township 17S	Range 29E	Feet from the	North	/South Line	Feet from the	East/W	est Line		County Eddy	
				Latitude 3	32.8025	9 Longitud	e 104.07849					
						OF RELI		***			ie.	
Type of Released Oil and Water						Volume of	Release: 14 bbls PW			ecovered: : 10 bbls PV	1/	
Source of Re							our of Occurrenc			Hour of Dis		
Gasket Failur		210				11/20/2014			1/20/201	4 8:00am		_
Was Immedia	ite Notice (Yes [No Not Re	equired	If YES, To	wnom?					
By Whom?	Amanda 7	rujillo				Date and H	our:					
Was a Watero	course Read		V.	1 No		If YES, Vo	lume Impacting t	he Watero	ourse.			
			Yes 🛚									
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	•								
Describe Cause of Problem and Remedial Action Taken.*												
This release v	This release was caused by a gasket failure on a heater treater. The process equipment was repaired and vacuum trucks were dispatched to pick up any											
				MOCD approved			•			•	•	1 ,
Describe Area	a Affected a	and Cleanup A	Action Tak	ten.*								
Most of the re	eleased fluid	d was containe	ed within t	the lined facility,	however	there was so	me impact outside	e of the li	ned area t	o the east o	f the faci	ility o the
pad. Concho	will have th	e spill site sar	npled to d	elineate any poss								
NMOCD for	approvai pr	for to any sigi	niricant re	mediation work.								
	0 1 1 1	0				1						
				is true and comp nd/or file certain r								
public health	or the envir	onment. The	acceptanc	e of a C-141 repo	ort by the	NMOCD ma	arked as "Final Re	eport" doe	s not relie	eve the oper	rator of li	iability
				investigate and r tance of a C-141								
federal, state,				tance of a C-141	report de	Jes not reneve	the operator of i	Caponator	inty for co	mphanee w	Till ally C)tile1
	4	/ _					OIL CONS	SERVA	TION	<u>DIVISIC</u>	<u>N</u>	
Signature:	5	-te	ما رس	ea 								
Printed Name	: Amanda	Trujillo			1	Approved by	Environmental Sp	pecialist:				
Title: Senior I	Environmer	ntal Coordinat	or			Approval Date	e:	Ex	piration I	Date:		
E-mail Addre	ss: <u>atrujillo</u>	@concho.con	<u>1</u>		(Conditions of	Approval:			Attached		
Date: Dece	mber 3, 201	14	Phone:	575-748-6940								
* Attach Addit	ional Shee	ts If Necess	ary									