District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
Submit 1 Conv to appropriate District Office to

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

Release Notificatio	on and Corrective Action	n
	OPERATOR	☐ Initial Report ☐ Final Report
Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9786	
Facility Name: San Juan 30-6 Unit 400	Facility Type: Gas Well	
S. S. Comp. End. of D. J. of D. of D	DIM	ADV.) 200202224
Surface Owner Federal (B. of Reclamation) Mineral Owner	BLIVI	API No. 3003923934
		RCVD SEP 11'11
M 14 30N 07W 300'	South Peet from the East	West Line County West Rio Arriba
Latitude <u>36.806</u> 0	04 Longitude <u>-107.5451</u>	OIL CONS. DIV.
NATURE	E OF RELEASE	DIST. 3
Type of Release Produced Water	Volume of Release 38 BBLs	Volume Recovered 38 BBLs
Source of Release Overflow of Below Grade Tank	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given?		08/04/14 (a) 8:52 a.m.
		LM
Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company Address 3401 East 30th St, Farmington, NM Facility Name: San Juan 30-6 Unit 400 Surface Owner Federal (B. of Reclamation) Mineral Owner BLM LOCATION OF RELEASE Unit Letter Section 14 30N 07W 300' South 990' Latitude 36.80604 Longitude -107.5451 NATURE OF RELEASE Type of Release Produced Water Contact Lisa Hunter Telephone No. (505) 326-9786 Facility Type: Gas Well API No. 3003923934 API No. 3003923934 Contact Lisa Hunter Feet from No. (505) 326-9786 Facility Type: Gas Well API No. 3003923934 LOCATION OF RELEASE RCWD SEP 11 '1 Contact Lisa Hunter Section 15 300 Separate Section 25 300 Separate Separate Section 25 300 Separate Sect		
By Whom? Lindsay Dumas		
	NWIOCD 08/04/14 @ 4:12 p.m.	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.
☐ Yes ⊠ No		
If a Watercourse was Impacted, Describe Fully.*		
• • • •		
Describe Cause of Broblem and Demodial Action Tolon *		
	ning unit shut down and re-directed i	numn line to the 500 BBL tanks. 38 bbls
	regulatory standards – no idithe	action required. The son sampling
report is accidence for review. No further remediation required		
I hereby certify that the information given above is true and complete to	the best of my knowledge and underst	and that pursuant to NMOCD rules and
We will be a second of the sec	OIL CONSER'	VATION DIVISION
Waster Jake		
Signature:		(and)
N. C. IN. and P. C. Hand	Approved by Environmental Speciali	st / Ty VI
	Approval Date: 4/18/14	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached
Date: Sentember 8 2014 Phone: (505) 326-0786		_
Attach Additional Sheets If Necessary	4,2514212789806	
remon regulational one of the recognity	TAIL JUDY CONTROL OF CONTROL	•



6121 Indian School Road NE, Suite 200 Albuquerque, New Mexico 87110 Telephone: (505) 884-0672 Fax: (505) 884-4932

www.CRAworld.com

September 4, 2014

Reference No. 086082

Mrs. Lisa Hunter ConocoPhillips San Juan Business Unit 5525 Hwy 64 Farmington, New Mexico 87401

Via electronic mail to: SJBUE-Team@conocophillips.com

Re:

Release Assessment Report

San Juan 30-6 No. 400

San Juan County, New Mexico

Dear Lisa Hunter:

On August 18, 2014 Conestoga-Rovers & Associates (CRA) completed a release assessment at the ConocoPhillips (CoP) San Juan 30-6 No. 400 (Site), located in San Juan County, New Mexico. The release consisted of approximately 38 barrels (bbls) of produced water from the onsite below grade tank (BGT). Of the 38 bbls of produced water released, 38 bbls were recovered.

1.0 Site Information

1.1 Location

Location - Unit letter M, Section 14, Township 30N, Range 07W, San Juan County, New Mexico API Number: 30-039-23934

Well Head Latitude/Longitude - N36.8064, W107.5451, respectively

Release Location Latitude/Longitude - N36.806409, W107.546067, respectively

Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

Figure 3. Release Assessment Sample Locations and Results

1.2 Site Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD Guidelines for Remediation of Leaks, Spills, and

Employment Opportunity



Reference No. 086082

- 2 -

Releases (August 1993) prior to site work. The release was given a ranking score of 10 based on the following factors:

- **Depth to Groundwater**: Groundwater depth in the vicinity of the release is estimated to be approximately 190 feet based on a New Mexico Office of the State Engineer database search of wells in the area. (0 points)
- **Wellhead Protection Area**: The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body**: St. Francis Creek is located approximately 800 horizontal feet from the release location. (10 points)

1.3 Assessment

CRA was initially contacted by Lindsay Dumas of CoP on August 6, 2014, and on August 13, 2014 Christine Mathews of CRA completed the release assessment field work. The assessment included collection and field screening of five soil samples from soil borings in and around the release area. Soil borings were terminated at approximately six inches below the bottom of the BGT containment area. Sample locations are presented on Figure 3.

2.0 Soil Sampling

Five soil samples from five hand-augered soil borings, B-1 through B-5, were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs) and chlorides. The five soil samples were also analyzed by Hall Environmental Analysis Laboratory for confirmation laboratory analysis

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

Field screening for VOCs was conducted with a photo-ionization detector (PID. Before performing any field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 HACH Chloride Field Analysis

Field chloride samples were screened using HACH low range (30 to 600 milligrams per liter (mg/L)) chloride test strips. The field screening procedure followed was that contained in the



Reference No. 086082

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document Field Determination of Chloride in Salt Impacted Soils by David G. Boyer, P.G., Safety and Environmental Solutions, Inc., Hobbs, New Mexico. Chloride field screening results achieved from the above referenced method are typically comparable to laboratory analytical results. One factor that can interfere with field results, however, is turbid solutions. Small soil particles are capable of plugging up the capillary pores of the HACH chloride test strips resulting in slow or incomplete reactions. Solutions for each of the five soil samples collected for field screening were turbid since soils consist of silty clay. Due to the incomplete reaction of the 5 samples that were field screened for chloride, the test strips indicated that chloride levels were below <128 mg/L. In comparison to laboratory analytical results (see below), it is evident that the turbid solutions impeded the reaction during field screening for chlorides.

2.2 Laboratory Analysis

A soil sample from each of the five borings was submitted for laboratory analysis . Samples were placed into laboratory supplied containers, properly labeled, placed on ice, and transported to Hall Environmental Analysis Laboratory (Hall), of Albuquerque, New Mexico under chain of custody documentation. All soil samples were analyzed by Hall for the following constituents.

- TPH GRO and DRO by EPA Method 8015
- BTEX by EPA Method 8021
- Chloride by EPA Method 300.1

2.3 Field and Laboratory Analytical Results

On August 13, 2014, release assessment field screening results for VOCs via PID showed concentrations were 0.3 ppm in all samples except for B-3 and B-4 with results of 0.1 ppm and 0.2 ppm, respectively. Field chloride concentrations were determined to be less than 128 mg/L based on partially reacted HACH chloride test strip, as explained above. Results are included in Table 1 and on Figure 3. The CRA Field Sampling Report is also attached.

Table 1. VOC and Chloride Field Screening Results
San Jan 30-6 No. 400 Release Assessment, August 2014

6 15	Data Canada d	Sample Depth	VOCs via OVM	Chloride
Sample ID	Date Sampled	(ft bgs)	(ppm)	(mg/kg)
	NMOCD Action Level	*	100	NE

Reference No. 086082

- 4 -

B-1	8/13/2014	0.5	0.3	370
B-2	, 8/13/2014	0.5	0.3	350
B-3	8/13/2014	0.5	0.1	250
B-4	8/13/2014	0.5	0.2	270
B-5	8/13/2014	0.5	0.3	300

NE ~ not established

Laboratory analyses for all five soil samples were used to confirm field screening results. The laboratory analyses reported concentrations of TPH GRO and DRO, BTEX, and benzene below the NMOCD site specific action levels of 1,000 mg/kg, 50 mg/Kg, and 10 mg/Kg respectively. Analytical results are presented in Table 2 and on Figure 3. The laboratory analytical report is also attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH and Chloride San Juan 30-6 No. 400 Release Assessment, August 2014

		Sample		Total			
Sample	Date	Depth	Benzene	BTEX	TPH GRO	TPH DRO	Chloride
ID	Sampled	(ft bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMO	OCD Action Le	evel*	10	50	1,0	000	NE
B-1	.8/13/2014	0.5	< 0.050	< 0.250	< 5.0	26	370
B-2	8/13/2014	0.5	< 0.048	< 0.241	< 4.8	10	350
B-3	8/13/2014	0.5	< 0.048	< 0.241	< 4.8	<10	250
B-4	8/13/2014	0.5	< 0.046	< 0.231	< 4.6	88	270
B-5	8/13/2014	0.5	< 0.047	< 0.235	< 4.7	410	300

NE - not established

3.0 Conclusions and Recommendations

On August 13, 2014, CRA conducted a release assessment of soils associated with an overflow of produced water from a BGT at the San Juan 30-6 No. 400. Action levels for releases are

^{*} Action level determined by the NMOCD ranking score per the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)

^{*}Action level determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993)



Reference No. 086082

- 5 -

determined by the NMOCD ranking score per NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), and the site was assigned a rank of 10.

Field screening results for VOCs were below 0.5 ppm in all collected samples. Laboratory confirmation results for VOCs and TPH GRO and DRO indicated concentrations below the NMOCD action levels. Laboratory analysis for VOCs indicated concentrations of BTEX below laboratory detection limits. The highest laboratory analytical TPH concentration was reported in B-5 with 410 mg/kg.

The release was completely contained within the BGT bermed area and all liquids were essentially recovered by a vacuum truck. Laboratory analytical results were below applicable NMOCD action levels. These results, combined with a significant depth to groundwater, do not present any potential impacts to surface or groundwater and therefore CRA recommends no further action at the Site.

If you have any questions about this report or site conditions please do not hesitate to contact Bernard Bockisch at 505-884-0672.

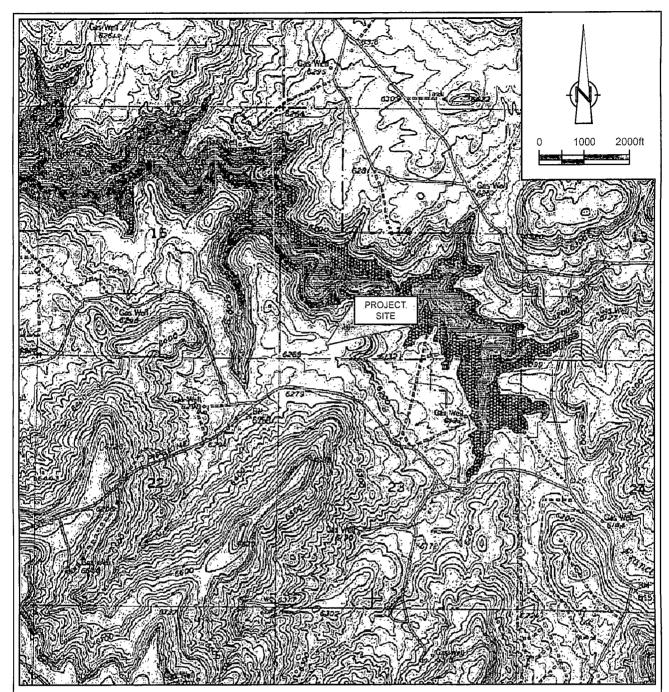
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Bernard Bockisch

BB/MC/01

Encl.



SOURCE: USGS 7.5 MINUTE QUAD "NAVAJO DAM, NEW MEXICO"

LAT/LONG: 36.8063° NORTH, 107.5459° WEST COORDINATE: NAD83 DATUM, U.S. FOOT STATE PLANE ZONE - NEW MEXICO CENTRAL

Figure 1

TOPOGRAPHIC SITE LOCATION MAP SAN JUAN 30-6 No.400, UNIT LETTER M SECTION 14, T30N, R07W, SAN JUAN COUNTY, NEW MEXICO ConocoPhillips Company



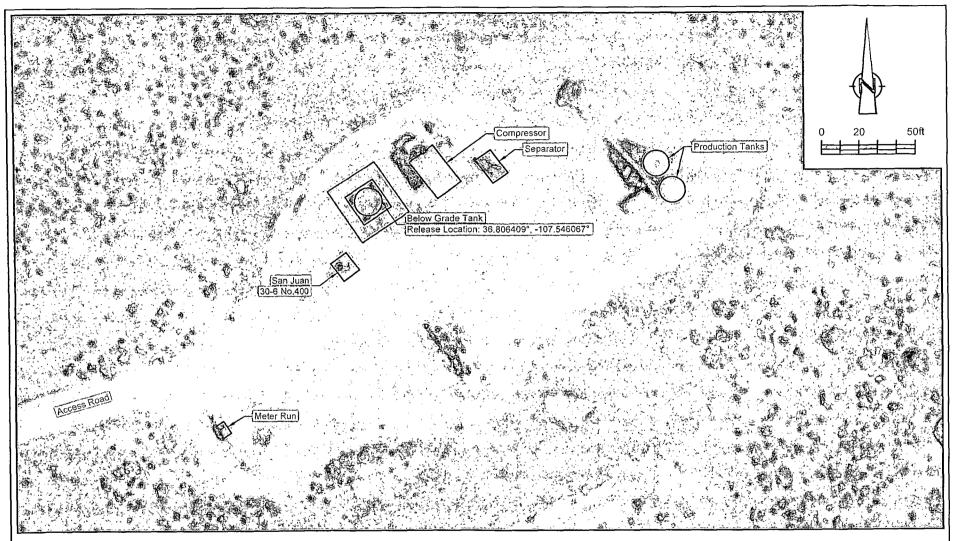


Figure 2

AERIAL SITE MAP SAN JUAN 30-6 No.400, UNIT LETTER M SECTION 14, T30N, R07W, SAN JUAN COUNTY, NEW MEXICO ConocoPhillips Company



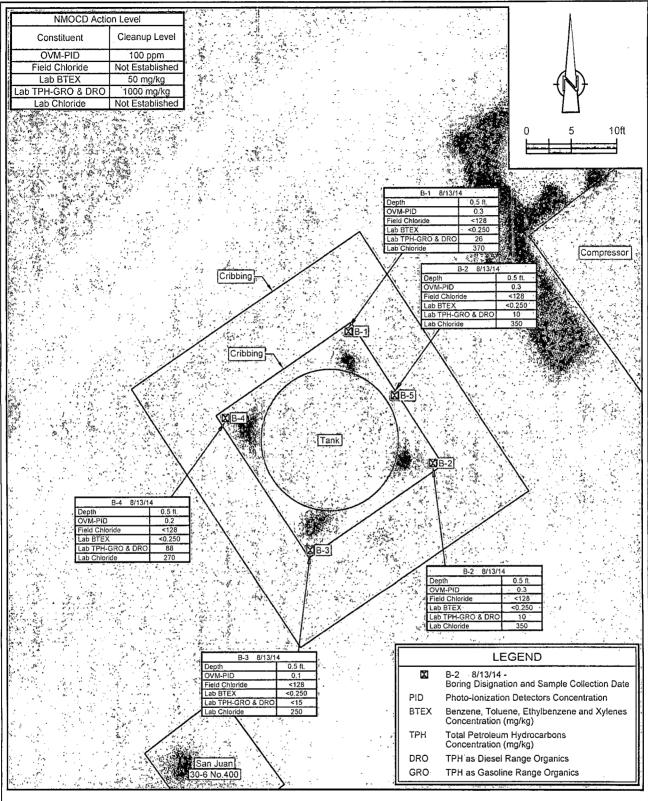


Figure 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS SAN JUAN 30-6 No.400, UNIT LETTER M SECTION 14, T30N, R07W, SAN JUAN COUNTY, NEW MEXICO ConocoPhillips Company



Conestoga-Rovers & Associates Field Sampling Report

Client: ConocoPhillips

Project Location: San Juan 30-6 No. 400

Date: 8/12/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Chloride (mg/kg)	Analysts Initials
B-1 (0-6")	8/13/2014	1305	0.3	< 128	CM
B-2 (0-6")	8/13/2014	1320	0.3	< 128	CM
B-3 (0-6")	8/13/2014	1340	0.1	< 128	CM
B-4 (0-6")	8/13/2014	1355	0.2 .	< 128	CM
B-5 (0-6")	8/13/2014	1415	0.3	< 128	CM

Analyst: Thristine Mathews



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

OrderNo.: 1408768

August 20, 2014

Jeff Walker

CRA

6121 Indian School Road, NE #200

Albuquerque, NM 87110

TEL: (505) 884-0672

FAX

RE: San Juan 30-6 No. 400

Dear Jeff Walker:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/14/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1408768

Date Reported: 8/20/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CRA

Client Sample ID: SS-081314-CM-B1(0-6")

Project:

San Juan 30-6 No. 400

Collection Date: 8/13/2014 1:05:00 PM

Lab ID:

1408768-001

Matrix: SOIL

Received Date: 8/14/2014 2:05:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	26	9.9	mg/Kg	1	8/18/2014 5:29:56 PM	14785
Surr: DNOP	76.2	57.9-140	%REC	1	8/18/2014 5:29:56 PM	14785
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/18/2014 11:06:17 PN	1 14792
Surr: BFB	98.5	80-120	%REC	1	8/18/2014 11:06:17 PM	1 14792
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.10	mg/Kg	1	8/18/2014 11:06:17 PN	1 14792
Benzene	ND	0.050	mg/Kg	1	8/18/2014 11:06:17 PM	1 14792
Toluene	ND	0.050	mg/Kg	1	8/18/2014 11:06:17 PM	1 14792
Ethylbenzene	ND	0.050	mg/Kg	1	8/18/2014 11:06:17 PM	1 14792
Xylenes, Total	ND	0.10	mg/Kg	1	8/18/2014 11:06:17 PM	1 14792
Surr: 4-Bromofluorobenzene	109	80-120	%REC	1	8/18/2014 11:06:17 PM	1 14792
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	370	30	mg/Kg	20	8/18/2014 12:44:17 PN	1 14812

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1408768

Date Reported: 8/20/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CRA

San Juan 30-6 No. 400

Lab ID: 1408768-002

Project:

Matrix: SOIL

Collection Date: 8/13/2014 1:20:00 PM

Client Sample ID: SS-081314-CM-B2(0-6")

Received Date: 8/14/2014 2:05:00 PM

RL Qual Units **DF** Date Analyzed Analyses Result Batch **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN 8/18/2014 5:51:13 PM Diesel Range Organics (DRO) 9.9 mg/Kg 14785 Surr: DNOP 84.9 57.9-140 %REC 8/18/2014 5:51:13 PM 14785 Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 8/18/2014 11:34:53 PM 14792 ND 4.8 Gasoline Range Organics (GRO) mg/Kg 8/18/2014 11:34:53 PM 14792 Surr: BFB 98.5 80-120 %REC **EPA METHOD 8021B: VOLATILES** Analyst: NSB 0.097 8/18/2014 11:34:53 PM 14792 Methyl tert-butyl ether (MTBE) ND mg/Kg Benzene ND 0.048 mg/Kg 8/18/2014 11:34:53 PM 14792 8/18/2014 11:34:53 PM 14792 Toluene ND 0.048 mg/Kg Ethylbenzene ND 0.048 mg/Kg 8/18/2014 11:34:53 PM 14792 0.097 8/18/2014 11:34:53 PM 14792 Xylenes, Total ND mg/Kg %REC 8/18/2014 11:34:53 PM 14792 Surr: 4-Bromofluorobenzene 110 80-120 **EPA METHOD 300.0: ANIONS** Analyst: JRR Chloride 350 30 mg/Kg 8/18/2014 1:09:07 PM

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1408768

Date Reported: 8/20/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CRA

Client Sample ID: SS-081314-CM-B3(0-6")

Project: San Juan 30-6 No. 400

Collection Date: 8/13/2014 1:40:00 PM

Lab ID: 1408768-003

Matrix: SOIL

Received Date: 8/14/2014 2:05:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS		·		Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/19/2014 2:50:25 PM	14785
Surr: DNOP	79.0	57.9-140	%REC	1	8/19/2014 2:50:25 PM	14785
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/19/2014 12:03:23 AM	14792
Surr: BFB	99.6	80-120	%REC	1	8/19/2014 12:03:23 AM	14792
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND -	0.096	mg/Kg	1	8/19/2014 12:03:23 AM	14792
Benzene	ND	0.048	mg/Kg	1	8/19/2014 12:03:23 AM	14792
Toluene	ND	0.048	mg/Kg	1	8/19/2014 12:03:23 AM	14792
Ethylbenzene	ND	0.048	mg/Kg	1	8/19/2014 12:03:23 AM	14792
Xylenes, Total	ND	0.096	mg/Kg	1	8/19/2014 12:03:23 AM	14792
Surr: 4-Bromofluorobenzene	112	80-120	%REC	1	8/19/2014 12:03:23 AM	14792
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	250	7.5	mg/Kg	5	8/18/2014 1:46:21 PM	14812

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1408768

Date Reported: 8/20/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CRA

1408768-004

Client Sample ID: SS-081314-CM-B4(0-6")

Project: Lab ID:

San Juan 30-6 No. 400

Collection Date: 8/13/2014 1:55:00 PM

Received Date: 8/14/2014 2:05:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	88	10	mg/Kg	1	8/18/2014 6:34:01 PM	14785
Surr: DNOP	74.0	57.9-140	%REC	1	8/18/2014 6:34:01 PM	14785
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/19/2014 12:31:57 AM	√ 14792
Surr: BFB	99.7	80-120	%REC	1	8/19/2014 12:31:57 AM	N 14792
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093	mg/Kg	1	8/19/2014 12:31:57 AM	И 14792
Benzene	ND	0.046	mg/Kg	1	8/19/2014 12:31:57 AM	Л 14792
Toluene	ND	0.046	mg/Kg	1	8/19/2014 12:31:57 AM	Л 14792
Ethylbenzene	ND	0.046	mg/Kg	1	8/19/2014 12:31:57 AM	И 14792
Xylenes, Total	ND	0.093	mg/Kg	1	8/19/2014 12:31:57 AM	И 14792
Surr: 4-Bromofluorobenzene	111	80-120	%REC	1	8/19/2014 12:31:57 AM	√ 14792
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	270	30	mg/Kg	20	8/18/2014 2:23:36 PM	14812

Matrix: SOIL

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- I-I Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

Page 4 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1408768

Date Reported: 8/20/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: CRA

Client Sample ID: SS-081314-CM-B5(0-6")

Project:

San Juan 30-6 No. 400

Collection Date: 8/13/2014 2:15:00 PM

Lab ID:

1408768-005

Matrix: SOIL

Received Date: 8/14/2014 2:05:00 PM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analysi	BCN
Diesel Range Organics (DRO)	410	100		mg/Kg	10	8/19/2014 3:33:22 PM	14785
Surr: DNOP	0	57.9-140	S	%REC	10	8/19/2014 3:33:22 PM	14785
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/19/2014 1:00:38 AM	14792
Surr: BFB	100	80-120		%REC	1	8/19/2014 1:00:38 AM	14792
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094		mg/Kg	1	8/19/2014 1:00:38 AM	14792
Benzene	ND	0.047		mg/Kg	1	8/19/2014 1:00:38 AM	14792
Toluene	ND	0.047		mg/Kg	1	8/19/2014 1:00:38 AM	14792
Ethylbenzene	ND	0.047		mg/Kg	1	8/19/2014 1:00:38 AM	14792
Xylenes, Total	ND	0.094		mg/Kg	1	8/19/2014 1:00:38 AM	14792
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	8/19/2014 1:00:38 AM	14792
EPA METHOD 300.0: ANIONS						Analyst	: JRR
Chloride	300	7.5		mg/Kg	5	8/18/2014 2:36:01 PM	14812

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 5 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1408768

22-Aug-14

Client:

Project:

San Juan 30-6 No. 400

Sample ID MB-14812

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

LowLimit

Client ID: PBS

Batch ID: 14812

RunNo: 20645

%REC

Units: mg/Kg

HighLimit

Prep Date: 8/18/2014 Analysis Date: 8/18/2014

SeqNo: 600822

%RPD **RPDLimit**

Qual

Analyte Chloride

PQL ND

Sample ID LCS-14812 Client ID: LCSS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Prep Date: 8/18/2014

Batch ID: 14812 Analysis Date: 8/18/2014 RunNo: 20645

%REC

Units: mg/Kg

1.5

SegNo: 600823

%RPD **RPDLimit** Qual

Analyte

15.00

SPK value SPK Ref Val

SPK value SPK Ref Val

94.7

Chloride

HighLimit

Oualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDIimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded ND

Sample pH greater than 2.

Reporting Detection Limit

Not Detected at the Reporting Limit Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

WO#:

1408768

22-Aug-14

Client:

CRA

Project:

San Juan 30-6 No. 400

			-							
Sample ID MB-14785	Samp ⁻	Гуре: МЕ	BLK	TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS	Batc	Batch ID: 14785 RunNo: 20630								
Prep Date: 8/15/2014	Analysis [ysis Date: 8/18/2014 SeqNo: 600244 Un			Units: mg/k	(g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.5		10.00		74.9	57.9	140			
Sample ID LCS-14785	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8015D: Diese	el Range (Organics	
Client ID: LCSS	Batc	h ID: 14	785	F	RunNo: 2	0630				
Prep Date: 8/15/2014	Analysis [Date: 8/	/18/2014	5	SeqNo: 6	00245	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.7	68.6	130			
Surr: DNOP	4.2		- 5.000		84.6	57.9	140			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1408768

22-Aug-14

Client:

CRA

Project:

Surr: BFB

Gasoline Range Organics (GRO)

San Juan 30-6 No. 400

28

1100

5.0

Sample ID MB-14792	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8015D: Gasoline Range				
Client ID: PBS	Batch ID: 14792	RunNo: 20627					
Prep Date: 8/15/2014	Analysis Date: 8/18/2014	SeqNo: 600274	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimi	t Qual			
Gasoline Range Organics (GRO)	ND 5.0						
Surr: BFB	1000 1000	99.6 80	120				
Sample ID LCS-14792	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range				
Client ID: LCSS	Batch ID: 14792	RunNo: 20627					
Prep Date: 8/15/2014	Analysis Date: 8/18/2014	SeqNo: 600275	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimi	t Qual			

112

108

65.8

80

139

120

25.00

1000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2.

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1408768

22-Aug-14

Client:

CRA

Project:

San Juan 30-6 No. 400

Sample ID MB-14792	Samp	SampType: MBLK		Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batcl	atch ID: 14792		F	RunNo: 2	0627				
Prep Date: 8/15/2014	Analysis [Date: 8/	18/2014	014 SeqNo: 600307 U		Units: mg/k	⟨g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10			<u> </u>	<u> </u>				
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID LCS-14792	Sampl	ype: LC	s	TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batcl	h ID: 14	792	F	RunNo: 20627										
Prep Date: 8/15/2014	Analysis D	Date: 8/	18/2014	5	SeqNo: 6	00308	Units: mg/F	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Methyl tert-butyl ether (MTBE)	1.1	0.10	1.000	0	106	80	120								
Benzene	1.0	0.050	1.000	0	100	80	120								
Toluene	1.0	0.050	1.000	0	99.5	80	120								
Ethylbenzene	1.0	0.050	1.000	0	103	80	120								
Xylenes, Total	3.1	0.10	3.000	0	102	80	120								
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120								

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Ē
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit О
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2.
- Reporting Detection Limit RL

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Client Name: CRA Albuquerque Work Order Number: 1408768 08/14/15 Received by/date: Celin Som 8/14/2014 2:05:00 PM Logged By: Celina Sessa Celin Som Completed By: Celina Sessa 8/15/2014 8:42:\$7 AM Reviewed By: Chain of Custody Yes 🗆 No 🗔 Not Present 1. Custody seals intact on sample bottles? Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In NA 🗍 No 🗌 4. Was an attempt made to cool the samples? Yes 🗸 NA 🗆 No V 5. Were all samples received at a temperature of >0° C to 6.0°C Not required No 🗌 Yes 🔽 6. Sample(s) in proper container(s)? Yes 🗸 No 🗌 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? No 🔽 NA 🗌 Yes 🗌 9. Was preservative added to bottles? Yes 🗌 No 🗍 No VOA Vials 10.VOA vials have zero headspace? Yes No 🔽 11. Were any sample containers received broken? # of preserved bottles checked Yes 🔽 No 🗆 for pH: 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🖂 Yes 🗹 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🗹 14. Is it clear what analyses were requested? Checked by: 15. Were all holding times able to be met? Yes V No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗌 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: eMail Phone Fax In Person Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date | Signed By Good Not Present

Chain-of-Custody Record			Turn-Around Time:						-	, i	1_	A			. IZ	TE		nin.	AEI	NTA		-			
Client:	CRA	for	Conoc	ofhilli	pSJBU	Stand Project N	dard lame:	□ Rush	· · · · · · · · · · · · · · · · · · ·					A	N	AL	YS	SIS	L	AE	301		TO		, ´•
Mailing Address: 6/21 Indian Shoof #200			San Juan 30-6 No. 400					www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109																	
Albucoeraio. AM 9710			Project #:					Tel. 505-345-3975 Fax 505-345-4107																	
Phone #: 505-884-0672			TBD					4.			A PE		A			₹ <u>ê</u> qι	uest		<u> </u>						
email o	r Fax#: [Package:	505 × 1	007"	1100	<u>.</u>	Project Manager:				021)	s only	MRC			<u></u>		,SO ₄	PCB's			2015B		-		
Standard			Jeff Walker				8)s (8	(Ga	RO/		į	SIMS)		.PO.	2 PC		- 1		8	3					
Accreditation Discrete Discre			Sampler: Christing Matthews Onice: A Yes Res No.				+ TMB's (8021)	TPH	0 / D	8.1)	£.1	8270		3,NO	/ 8082		· i'	27	705	3	ž				
EDD (Type)				Temp	eraturê 🔭	8:3:	en e	BE +	띪	(GR	od 41	od 50	ō	stals	8	ides	æ		6009	$z_{\vec{z}}$	3 3	٤			
Date	Time	Matrix	Sam	ple Req	uest İD	Contair Type ar		Preservative Type	HEAL NO.	?	BTEX + MTBE	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	ഗി	が世代	ATTX Proj		Air Bubbles (Y or N)
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13/10	1355			1314-M)25m	器	none	-004											\dashv	_	X)	XΙΧ		Ĺ
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