

SITE INFORMATION

Report Type: Closure Report

General Site Information:

Site:	Blue Jay Federal #001H				
Company:	COG Operating LLC				
Section, Township and Range	Unit 0	Sec. 18	T 20S	R 35E	
Lease Number:	API No. 30-025-42338				
County:	Lea County				
GPS:	32.56651° N			103.49514° W	
Surface Owner:	Federal				
Mineral Owner:					
Directions:	From HWY 176 & Co Rd 27A in Lea County, travel NORTH on CR 27A for 2.30 mi, turn EAST onto lease road for 1.65 mi, turn NORTH for 0.65 mi to location on west side of the road.				

Release Data:

Date Released:	10/21/2016
Type Release:	Oil & Produced Water
Source of Contamination:	Damaged dump valve
Fluid Released:	197 bbls oil & 169 bbls water
Fluids Recovered:	182 bbls oil & 159 bbls water

Official Communication:

Name:	Robert McNeil	Ike Tavarez
Company:	COG Operating, LLC	Tetra Tech
Address:	One Concho Center 600 W. Illinois Ave.	4000 N. Big Spring Ste 401
City:	Midland Texas, 79701	Midland, Texas
Phone number:	(432) 686-3023	(432) 682-4559
Fax:	(432) 684-7137	
Email:	rmcneil@conchoresources.com	Ike.Tavarez@tetrattech.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	0
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:		20

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	100



January 3, 2017

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

Re: Closure Report for the COG Operating LLC., Blue Jay Federal #001H, Unit O, Section 18, Township 20 South, Range 35 East, Lea County, New Mexico.

Ms. Lynch:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC., (COG) to assess a spill from the Blue Jay Federal #001H, Unit O, Section 18, Township 20 South, Range 35 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.566561°, W 103.49514°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on October 21, 2016, and released approximately one hundred and ninety-seven (197) barrels of oil and one hundred and sixty nine (169) barrels of produced water due to a damaged dump valve. Approximately one hundred and eighty-two (182) barrels of oil and one hundred and fifty-nine (159) barrels of produced water were recovered. The spill occurred inside of the lined facility which breached the metal containment and the fluid migrated onto the pad, covering an area measuring approximately 60' x 80' on the pad. The initial C-141 form is included in Appendix A.

Groundwater

No water wells were listed within Section 18 on the New Mexico Office of the State Engineer database. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is between 25' to 50' below surface. The groundwater data is shown in Appendix B.



TETRA TECH

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 100 mg/kg.

Soil Assessment and Analytical Results

On December 1, 2016, Tetra Tech personnel were onsite to evaluate and sample the release area. Two sample trenches (T-1 and T-2) were installed on the pad to assess the impacted soils. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The trench locations are shown on Figure 3.

Referring to Table 1, none of the trench samples exceeded the RRAL's for TPH, benzene, or total BTEX. Both areas showed total TPH and benzene concentrations below the laboratory reporting limits. Total BTEX concentrations of 0.432 mg/kg (T-1) and <0.300 mg/kg (T-2) were detected at 0-1' below surface. Additionally, the areas of trenches (T-1 and T-2) did not show a significant chloride impact with a concentration high of 32.0 mg/kg.

Conclusion

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

Respectfully submitted,
TETRA TECH

Handwritten signature of Ike Tavarez in blue ink.

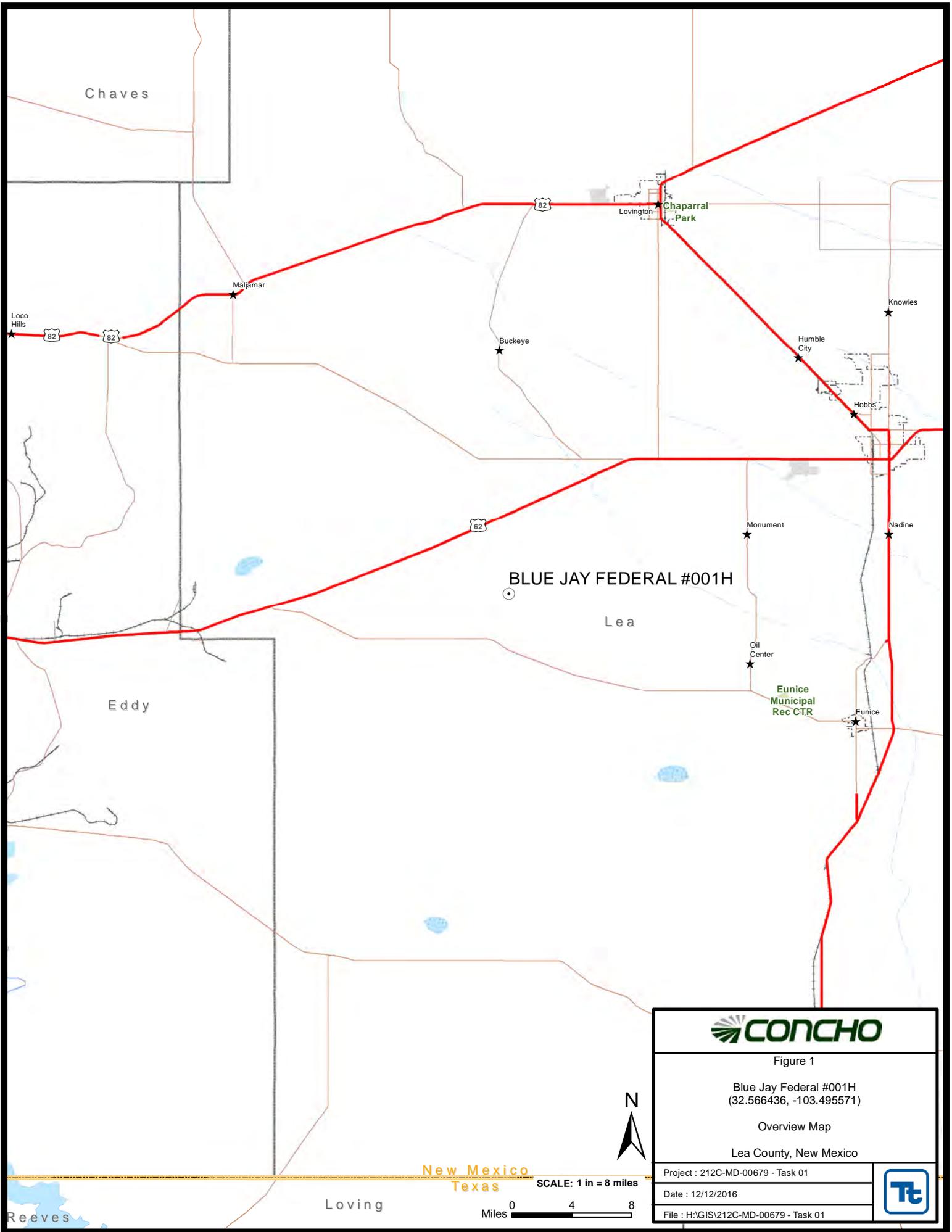
Ike Tavarez, PG
Senior Project Manager

Handwritten signature of Clair Gonzales in blue ink.

Clair Gonzales,
Geologist I

cc: Robert McNeill – COG
Dakota Neel - COG
Shelly Tucker – BLM

Figures



Chaves

Loco Hills

Majamar

Buckeye

Lovington
Chaparral Park

Knowles

Humble City

Hobbs

BLUE JAY FEDERAL #001H

Lea

Monument

Nadine

Oil Center

Eunie Municipal Rec CTR

Eunie

Eddy



Figure 1

Blue Jay Federal #001H
(32.566436, -103.495571)

Overview Map

Lea County, New Mexico

Project : 212C-MD-00679 - Task 01

Date : 12/12/2016

File : H:\GIS\212C-MD-00679 - Task 01



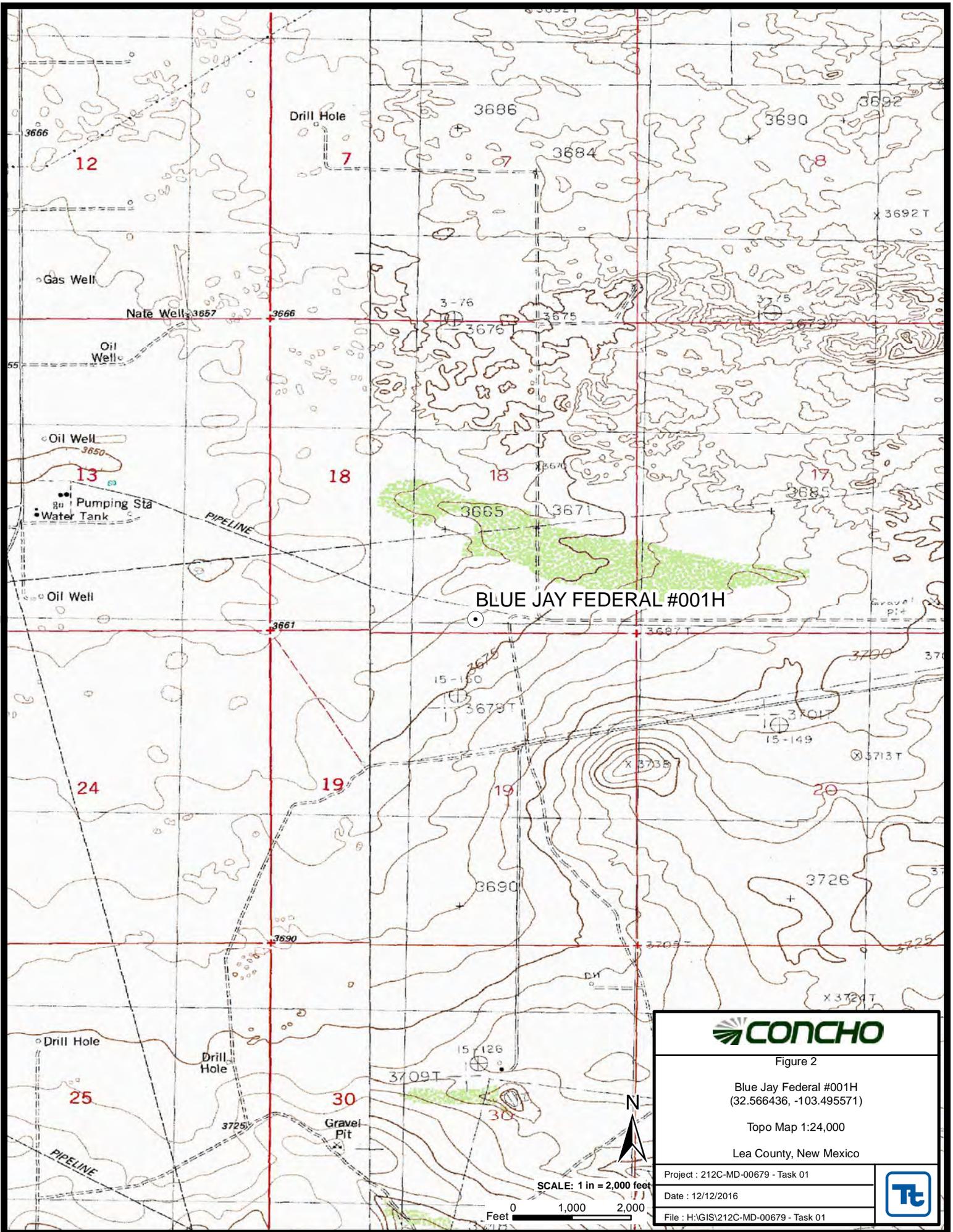
New Mexico
Texas

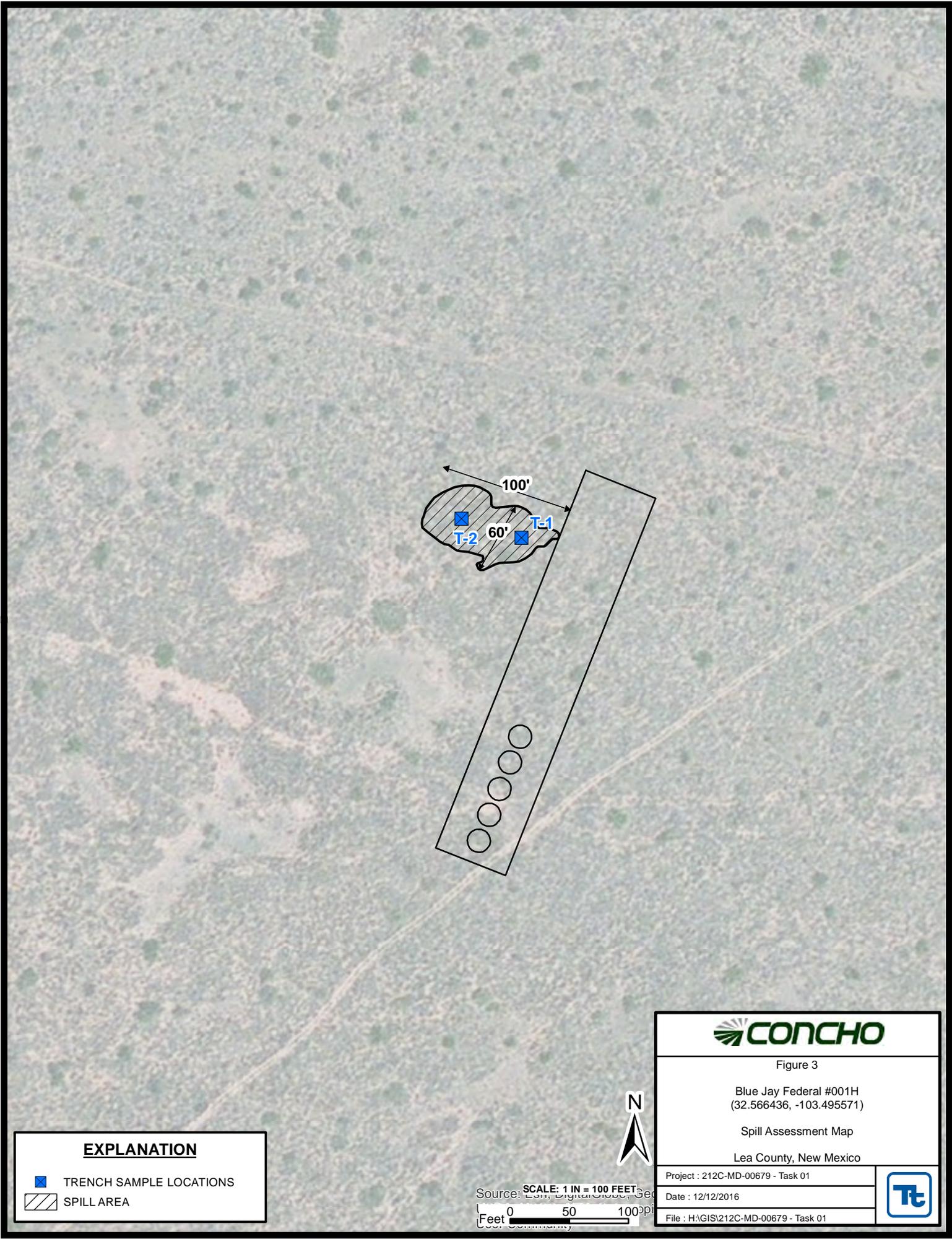
SCALE: 1 in = 8 miles



Loving

Reeves





EXPLANATION

 TRENCH SAMPLE LOCATIONS
 SPILL AREA



Source: ESRI, DigitalGlobe, GeoEye
 SCALE: 1 IN = 100 FEET
 Feet 0 50 100

	
Figure 3	
Blue Jay Federal #001H (32.566436, -103.495571)	
Spill Assessment Map	
Lea County, New Mexico	
Project : 212C-MD-00679 - Task 01	
Date : 12/12/2016	
File : H:\GIS\212C-MD-00679 - Task 01	

Tables

Table 1
COG Operating LLC.
Blue Jay Federal #1H
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
T-1	12/1/2016	0-1	X		<10.0	<10.0	<20.0	<0.050	0.086	0.051	0.295	0.432	<16.0
	"	2	X		-	-	-	-	-	-	-	-	32.0
	"	3	X		-	-	-	-	-	-	-	-	32.0
	"	4	X		-	-	-	-	-	-	-	-	16.0
T-2	12/1/2016	0-1	X		<10.0	<10.0	<20.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	"	2	X		-	-	-	-	-	-	-	-	<16.0
	"	3	X		-	-	-	-	-	-	-	-	<16.0
	"	4	X		-	-	-	-	-	-	-	-	<16.0

Appendix A

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

Form C-141
Revised August 8, 2011

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: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Blue Jay Federal #001H	Facility Type: Battery
Surface Owner: Federal	Mineral Owner: Federal
API No. 30-025-42338	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	18	20S	35E	190	South	2310	East	Lea

32.5664367366954,-103.495571226436

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 197 bbls of Oil ; 169 bbls of PW	Volume Recovered: 182 bbls of Oil ; 159 bbls of PW
Source of Release: Dump Valve	Date and Hour of Occurrence: 10/21/2016 unknown	Date and Hour of Discovery: 10/21/2016 3:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kristen Lynch NMOCD/ Shelly Tucker BLM	
By Whom?	Date and Hour: 10/21/2016 @ 1:42 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
The release was caused by a damaged dump valve on a FWKO. The dump valve was removed to determine cause of damage and a new dump valve was installed. Vacuum trucks were immediately dispatched to recover all standing fluid from the well pad and the lined containment. The impacted area of the well pad was lightly scraped to remove the surface contamination and the impacted soil was hauled off.

Describe Area Affected and Cleanup Action Taken.*
This release occurred within the falcon lined containment and on a portion of the well pad directly in front of the containment walls. There was no impact to the pasture. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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: Dakota Neel	Approved by Environmental Specialist:		
Title: Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: dneel2@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/28/2016	Phone: 575-748-6933		

* Attach Additional Sheets If Necessary

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

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company COG Operating LLC	Contact Robert McNeil
Address 600 West Illinois Ave., Midland, TX 79701	Telephone No. (432) 683-7443
Facility Name Blue Jay Federal #001H	Facility Type Well

Surface Owner: Federal	Mineral Owner	API No. 30-025-42338
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LOCATION OF RELEASE

Unit Letter O	Section 18	Township 20S	Range 35E	Feet from the 190	North/South Line South	Feet from the 2310	East/West Line East	County Lea
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Latitude N 32.56644° Longitude W 103.49557°

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release 197 bbls oil & 169 bbls produced water	Volume Recovered 182 bbls oil & 159 bbls produced water
Source of Release: Dump valve	Date and Hour of Occurrence 10/21/16 unknown	Date and Hour of Discovery 10/21/16 3:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kristen Lynch NMOCD / Shelly Tucker BLM	
By Whom?	Date and Hour 10/21/16 1:42 pm.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

The release was caused by a damaged dump valve on a FWKO. The dump valve was removed to determine the cause of damage and a new dump valve was installed. Vacuum trucks were immediately dispatched to recover all standing fluid from the well pad and the lined containment. The impacted area of the well pad was lightly scraped to remove the surface contamination and the impacted soil was hauled for proper disposal.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech inspected site and collected samples to define spills extent. None of the samples collected showed impact above the RRAL's. Tetra Tech prepared closure report and submitted to NMOCD for review.

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.

		<u>OIL CONSERVATION DIVISION</u>	
Signature:	Approved by District Supervisor:		
Printed Name: Ike Tavarez (Agent for COG)	Approval Date:	Expiration Date:	
Title: Project Manager	Conditions of Approval:		Attached <input type="checkbox"/>
E-mail Address: Ike.Tavarez@TetraTech.com			
Date: 12/9/16 Phone: (432) 682-4559			

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - Blue Jay Federal #001H
Lea County, New Mexico

19 South 34 East

6	5	4	3	2	1
244				100	
7	8	9	10	11	12
		29		123	60
		28.6			
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
					28
31	32	33	34	35	36
65					

19 South 35 East

6	5	4	3	2	1
61					
58	63	70			63
7	8	9	10	11	12
51	18		53		
18	17	26	16	15	14
	30		26	27	27
19	20	21	22	23	24
			27		20
30	29	28	27	26	25
31	32	33	34	35	36

19 South 36 East

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

20 South 34 East

6	5	4	3	2	1
		125			
7	8	9	10	11	12
18	17	128	16	15	14
	140			150	
19	20	21	22	23	24
					270
30	29	28	27	26	25
31	32	33	34	82	35
					36

20 South 35 East

6	5	4	3	2	1
56		64			
64					
7	8	9	10	11	12
					49
18	17	16	15	14	13
SITE					
19	20	21	22	23	24
30	29	28	27	26	25
31	65	32	33	34	35
			89		36

20 South 36 East

6	5	4	3	2	1
32					
	28			92	40
7	8	9	10	11	12
	33	38		32	29
18	17	16	15	14	13
				45	
19	20	21	22	23	24
30	29	28	27	26	106
				170	
31	32	33	34	35	36
	170				122

21 South 33 East

6	5	4	3	2	1
				79	
				107	
7	8	9	10	11	12
				150	
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
		179			
31	32	33	180	34	35
					36

21 South 34 East

6	5	4	3	2	1
		95			
7	8	120	9	10	11
					12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	140	27	26
					25
31	32	33	34	35	36

21 South 35 East

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

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



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 04116 S	L	LE		1	2	02	20S	35E		647710	3608881*	55	50	5
L 04157	L	LE		3	3	06	20S	35E		640483	3607561*	70	64	6
L 04158	L	LE		2	4	05	20S	35E		643290	3608008*	70	64	6
L 14097 POD1	L	LE		1	3	06	20S	35E		638740	3718500	61	0	61

Average Depth to Water: **44 feet**

Minimum Depth: **0 feet**

Maximum Depth: **64 feet**

Record Count: 4

PLSS Search:

Township: 20S

Range: 35E

*UTM location was derived from PLSS - see Help

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

Appendix C

December 07, 2016

IKE TAVAREZ

TETRA TECH

1910 N. BIG SPRING STREET

MIDLAND, TX 79705

RE: BLUE JAY FEDERAL #1H

Enclosed are the results of analyses for samples received by the laboratory on 12/01/16 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1 0-1	H602693-01	Soil	01-Dec-16 00:00	01-Dec-16 14:15
T-1 2	H602693-02	Soil	01-Dec-16 00:00	01-Dec-16 14:15
T-1 3	H602693-03	Soil	01-Dec-16 00:00	01-Dec-16 14:15
T-1 4	H602693-04	Soil	01-Dec-16 00:00	01-Dec-16 14:15
T-2 0-1	H602693-05	Soil	01-Dec-16 00:00	01-Dec-16 14:15
T-2 2	H602693-06	Soil	01-Dec-16 00:00	01-Dec-16 14:15
T-2 3	H602693-07	Soil	01-Dec-16 00:00	01-Dec-16 14:15
T-2 4	H602693-08	Soil	01-Dec-16 00:00	01-Dec-16 14:15

Cardinal Laboratories

* = Accredited Analyte

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 limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-1 0-1
H602693-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-Cl-B	
----------	-------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Toluene*	0.086		0.050	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Ethylbenzene*	0.051		0.050	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Total Xylenes*	0.295		0.150	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Total BTEX	0.432		0.300	mg/kg	50	6120501	MS	05-Dec-16	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140 6120501 MS 05-Dec-16 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	6120204	MS	03-Dec-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6120204	MS	03-Dec-16	8015B	

Surrogate: 1-Chlorooctane 76.7 % 35-147 6120204 MS 03-Dec-16 8015B

Surrogate: 1-Chlorooctadecane 78.1 % 28-171 6120204 MS 03-Dec-16 8015B

Cardinal Laboratories

*=Accredited Analyte

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 limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-1 2
H602693-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-Cl-B	
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-1 3
H602693-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-Cl-B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-1 4
H602693-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-Cl-B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-2 0-1
H602693-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Toluene*	<0.050		0.050	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	6120501	MS	05-Dec-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6120501	MS	05-Dec-16	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			118 %		73.6-140	6120501	MS	05-Dec-16	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	6120204	MS	03-Dec-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6120204	MS	03-Dec-16	8015B	
<i>Surrogate: 1-Chlorooctane</i>			74.6 %		35-147	6120204	MS	03-Dec-16	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			73.3 %		28-171	6120204	MS	03-Dec-16	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-2 2
H602693-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-Cl-B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-2 3
H602693-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-Cl-B	
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

T-2 4
H602693-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	6120504	AC	05-Dec-16	4500-Cl-B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6120504 - 1:4 DI Water										
Blank (6120504-BLK1)										
Prepared & Analyzed: 05-Dec-16										
Chloride	ND	16.0	mg/kg							
LCS (6120504-BS1)										
Prepared & Analyzed: 05-Dec-16										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (6120504-BSD1)										
Prepared & Analyzed: 05-Dec-16										
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6120501 - Volatiles
Blank (6120501-BLK1)

Prepared & Analyzed: 02-Dec-16

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0575</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>115</i>	<i>73.6-140</i>			

LCS (6120501-BS1)

Prepared & Analyzed: 02-Dec-16

Benzene	2.02	0.050	mg/kg	2.00		101	82.6-122			
Toluene	2.06	0.050	mg/kg	2.00		103	72.9-122			
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	65.4-131			
Total Xylenes	6.09	0.150	mg/kg	6.00		102	73.8-125			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0580</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>116</i>	<i>73.6-140</i>			

LCS Dup (6120501-BSD1)

Prepared & Analyzed: 02-Dec-16

Benzene	2.08	0.050	mg/kg	2.00		104	82.6-122	3.18	8.23	
Toluene	2.13	0.050	mg/kg	2.00		106	72.9-122	3.09	8.71	
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	65.4-131	3.08	9.46	
Total Xylenes	6.26	0.150	mg/kg	6.00		104	73.8-125	2.75	8.66	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0578</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>116</i>	<i>73.6-140</i>			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TETRA TECH
 1910 N. BIG SPRING STREET
 MIDLAND TX, 79705

 Project: BLUE JAY FEDERAL #1H
 Project Number: 212C-MD-00679.01
 Project Manager: IKE TAVAREZ
 Fax To: (432) 682-3946

 Reported:
 07-Dec-16 11:25

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 6120204 - General Prep - Organics
Blank (6120204-BLK1)

Prepared & Analyzed: 02-Dec-16

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	39.0		mg/kg	50.0		78.1	35-147			
<i>Surrogate: 1-Chlorooctadecane</i>	39.4		mg/kg	50.0		78.7	28-171			

LCS (6120204-BS1)

Prepared & Analyzed: 02-Dec-16

GRO C6-C10	182	10.0	mg/kg	200		90.9	76.7-115			
DRO >C10-C28	192	10.0	mg/kg	200		96.0	78.3-122			
Total TPH C6-C28	374	10.0	mg/kg	400		93.5	79.8-117			
<i>Surrogate: 1-Chlorooctane</i>	39.1		mg/kg	50.0		78.3	35-147			
<i>Surrogate: 1-Chlorooctadecane</i>	39.8		mg/kg	50.0		79.7	28-171			

LCS Dup (6120204-BSD1)

Prepared & Analyzed: 02-Dec-16

GRO C6-C10	185	10.0	mg/kg	200		92.6	76.7-115	1.79	9.42	
DRO >C10-C28	197	10.0	mg/kg	200		98.4	78.3-122	2.43	13.2	
Total TPH C6-C28	382	10.0	mg/kg	400		95.5	79.8-117	2.12	10.7	
<i>Surrogate: 1-Chlorooctane</i>	40.0		mg/kg	50.0		80.0	35-147			
<i>Surrogate: 1-Chlorooctadecane</i>	40.8		mg/kg	50.0		81.6	28-171			

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- 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. Keene, Lab Director/Quality Manager

Analysis Request of Chain of Custody Record



TETRA TECH
 1910 N. Big Spring St.
 Midland, Texas 79705
 (432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: **H602693**

PROJECT NO.: **225no-00679.b1**

LAB I.D. NUMBER: **2010**

DATE: **12/11**

TIME: **5**

MATRIX: **K**

COMP: **T-1**

GRAB: **D-1**

PROJECT NAME: **Blue Jay Federal #11H**

SITE MANAGER: **ke Foster**

SAMPLE IDENTIFICATION: **Loon Co**

RECEIVED BY: **[Signature]**

DATE: **12/11/10**

NUMBER OF CONTAINERS	
FILTERED (Y/N)	PRESERVATIVE METHOD
	HCL
	HNO3
	ICE
	NONE

<input checked="" type="checkbox"/>	BTEX 8021B
<input checked="" type="checkbox"/>	TPH 8015 MOD. TX1005 (Ext. to C35)
<input checked="" type="checkbox"/>	PAH 8270
<input checked="" type="checkbox"/>	RCRA Metals Ag As Ba Cd Cr Pb Hg Se
<input checked="" type="checkbox"/>	TCLP Metals Ag As Ba Cd Vr Pd Hg Se
<input checked="" type="checkbox"/>	TCLP Volatiles
<input checked="" type="checkbox"/>	TCLP Semi Volatiles
<input checked="" type="checkbox"/>	RCI
<input checked="" type="checkbox"/>	GC.MS Vol. 8240/8260/624
<input checked="" type="checkbox"/>	GC.MS Semi. Vol. 8270/625
<input checked="" type="checkbox"/>	PCB's 8080/608
<input checked="" type="checkbox"/>	Pest. 808/608
<input checked="" type="checkbox"/>	Chloride
<input checked="" type="checkbox"/>	Gamma Spec.
<input checked="" type="checkbox"/>	Alpha Beta (Air)
<input checked="" type="checkbox"/>	PLM (Asbestos)
<input checked="" type="checkbox"/>	Major Anions/Cations, pH, TDS

PAGE: **1** OF: **1**
 ANALYSIS REQUEST
 (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	RECEIVED BY: (Signature)	DATE: Time:	RECEIVED BY: (Signature)	DATE: Time:
1	12/11	5	K	T-1	D-1	Loon Co	[Signature]	12/11/10	[Signature]	12/11/10
2										
3										
4										
5										
6										
7										
8										
9										

RECEIVING LABORATORY:	ADDRESS:	CITY:	STATE:	PHONE:	ZIP:	DATE:	TIME:

REMARKS:	RECEIVED BY: (Signature)	DATE: Time:
Run dupes if Benzene exceeds 10mg/kg, BTEX exceeds 50mg/kg of TPH exceeds 1,000 mg/kg	[Signature]	12/11/10

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.