

Appendix 3

Wellhead Protection Area

Boyd X State #15H

Section 16, T19S-R25E
Eddy County, New Mexico
2RP-5594
Wellhead Protection Area (0.5 mile radius)

Legend

- Boyd X State Corn #15H Battery
- Wellhead Protection Area

USGS - 323948104302901 (DTW: 97', FGLM: 2/2/1994, DFL: 0.78 miles)

USGS - 324041104294801 (DTGW: 120', FGLM: 1/5/2012, DFL: 0.83 miles)

USGS - 324004104285801 (DTW: 95', FGLM: 1/13/2015, DFL: 0.73 miles)

NMOSE - RA06900 (DTGW: 95', LFD: 3/25/1974, DFL: 0.73 miles)
Boyd X State Corn #15H Battery



National Flood Hazard Layer FIRMette



Legend

SEE HIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99 With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
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OTHER AREAS OF FLOOD HAZARD	0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile (Zone X) Future Conditions 1% Annual Chance Flood Hazard (Zone X) Area with Reduced Flood Risk due to Levees, See Notes, Zone X Area with Flood Risk due to Levee Zone D
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OTHER AREAS	NO SCREEN Effective LOMRs Area of Undetermined Flood Hazard Zone GENERAL STRUCTURES Channel, Culvert, or Storm Sewer Levee, Dike, or Floodwall
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OTHER FEATURES	20.2 17.5 15 10 5 0 Cross Sections with 1% Annual Chance Water Surface Elevation Coastal Transect Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary Coastal Transect Baseline Profile Baseline Hydrographic Feature
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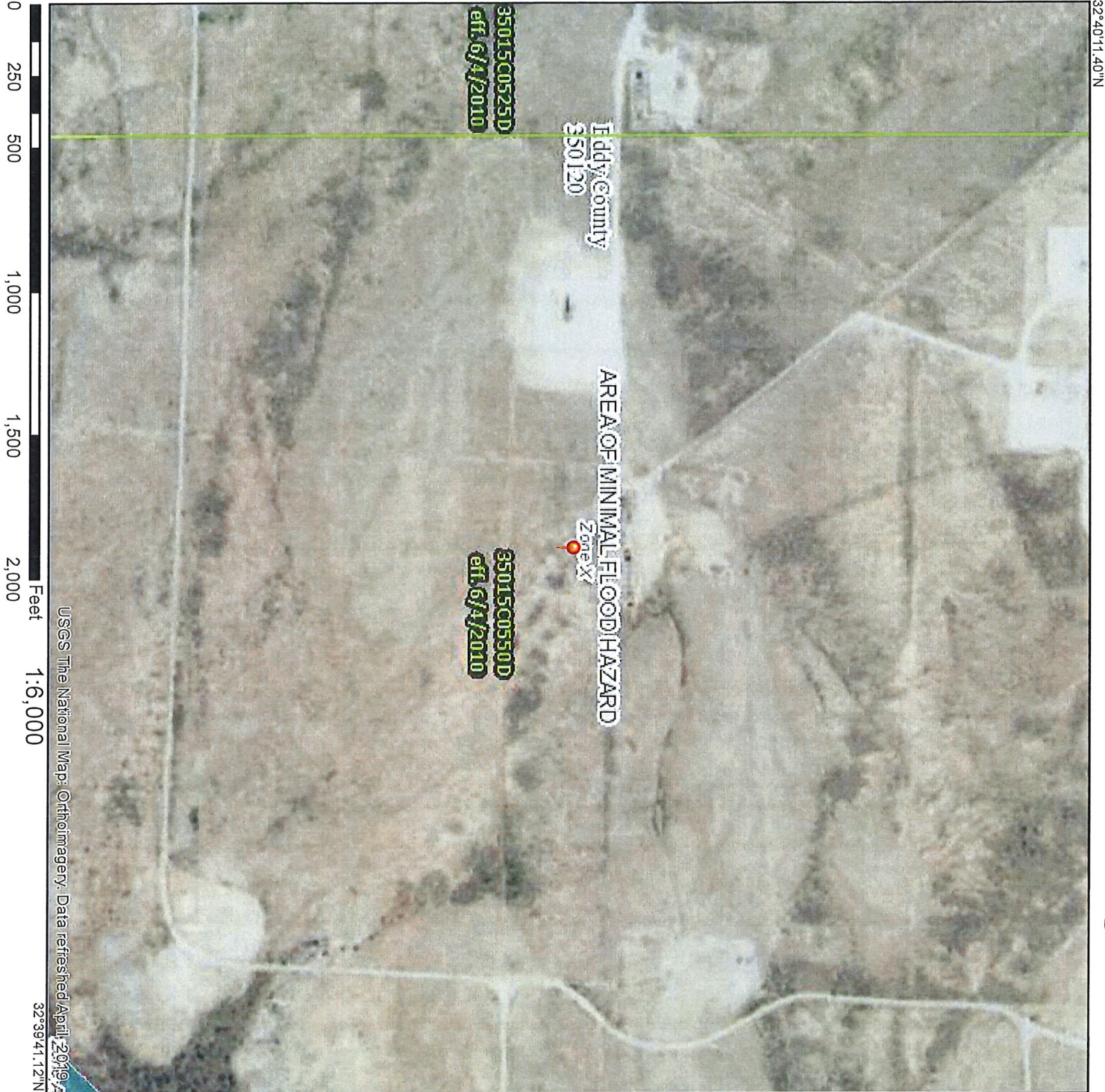
MAP PANELS	Digital Data Available No Digital Data Available Unmapped
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The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

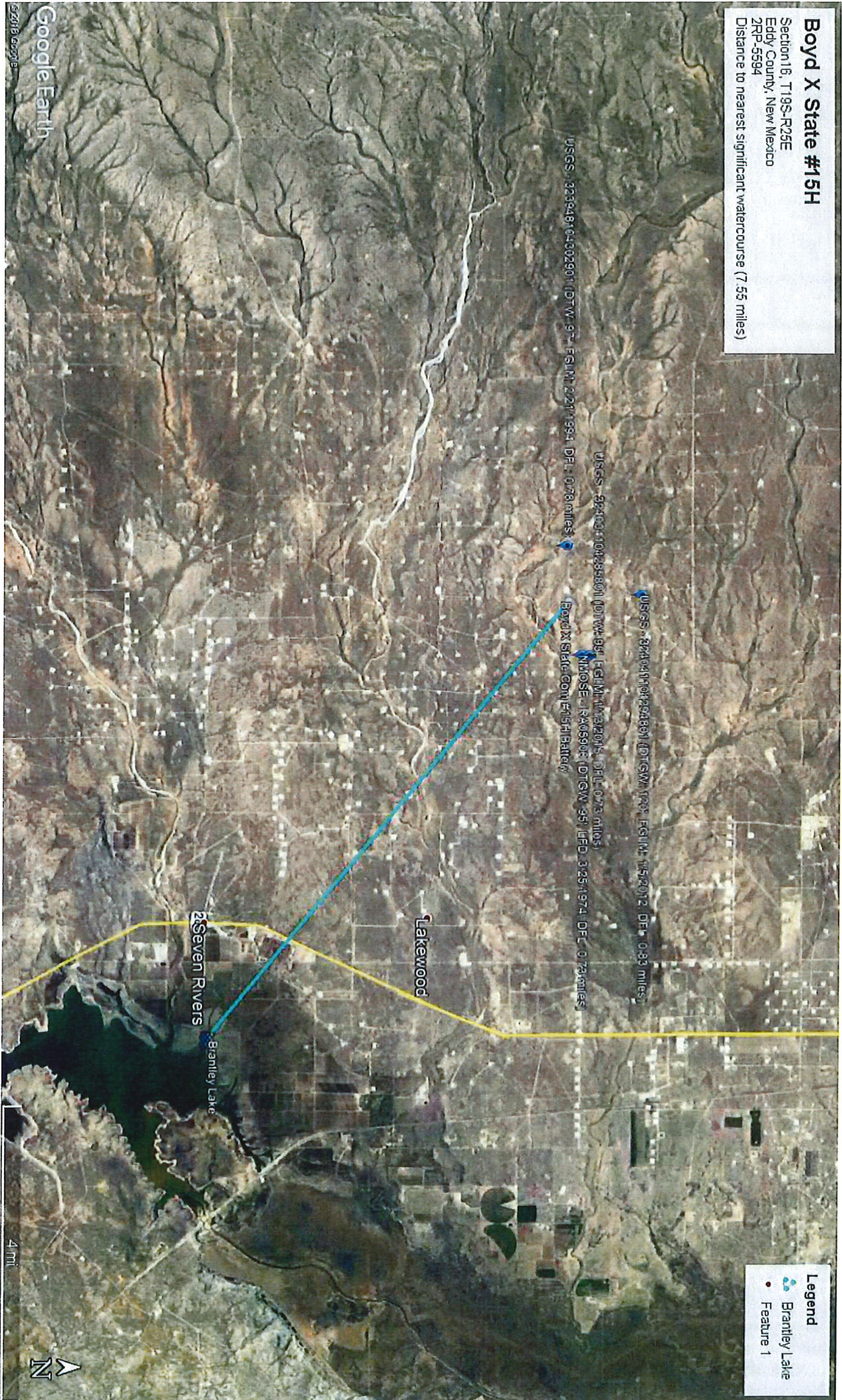
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/20/2019 at 6:07:29 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Boyd X State #15H

Section 18, T19S-R25E
Eddy County, New Mexico
ZRP-5594
Distance to nearest watercourse (7.55 miles)



Legend

- Brantley Lake
- Feature 1

Google Earth

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Appendix 5

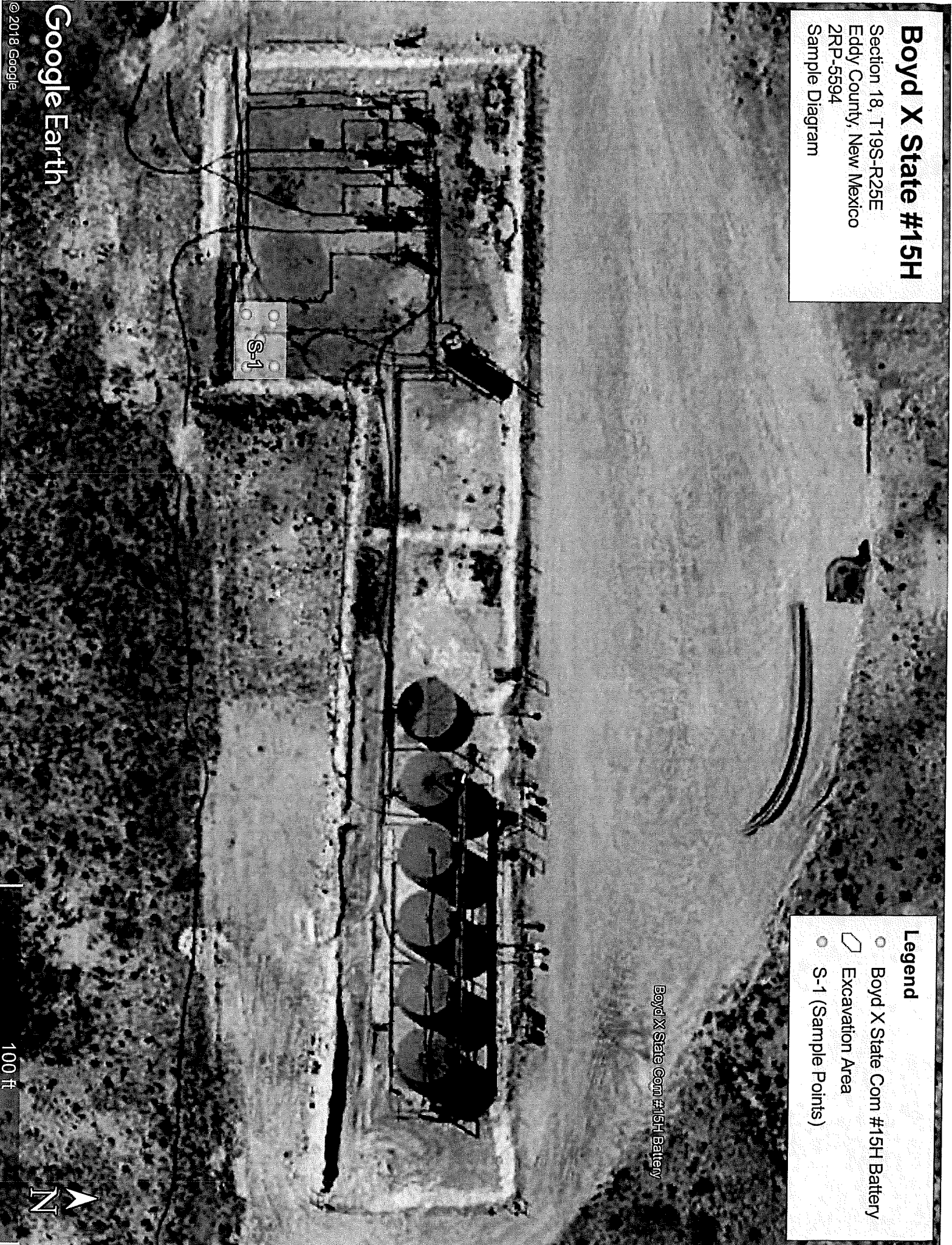
Field Data/Sample Data

Boyd X State #15H

Section 18, T19S-R25E
Eddy County, New Mexico
2RP-5594
Sample Diagram

- Legend**
- Boyd X State Com #15H Battery
 - Excavation Area
 - S-1 (Sample Points)

Boyd X State Com #15H Battery

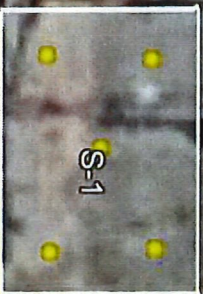


Boyd X State #15H

Section 18, T19S-R25E
Eddy County, New Mexico
ZRP-5594
Sample Diagram

Google Earth

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Legend

- Boyd X State Cor #15H Battery
- Excavation Area
- S-1 (Sample Points)

30 ft



Boyd X State Com #15H

Sample Data

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
S-1.1	1'	8/13/19	33.1	277	178	192	680.1	1720	16800	3860	22380	ND
S-1.2	2'	8/13/19	ND	0.0841	0.147	0.214	0.4451	ND	95.4	53.2	148.6	172
S-1.3	3'	8/13/19	ND	ND	ND	ND	0	ND	ND	ND	0	ND
S-1.4	4'	8/13/19	0.603	6.52	7.93	10.1	25.153	124	2240	344	2708	ND

Depth to Ground Water: 51-99'

Table I Closure Criteria for Soils Impacted by a Release			
Depth below bottom of release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0	600 mg/kg
	TPH	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0	10,000 mg/kg
	TPH	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
➤ 100 feet	Chloride***	EPA 300.0	20,000 mg/kg
	TPH	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8015M	10 mg/kg

Appendix 6

Laboratory Data and COC



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 8/15/2019

Job Number: 19034-0001

Work Order: P908035

Project Name/Location: Boyd X State Com #15H

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 8/16/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Boyd X State Com #15H
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
08/16/19 16:11

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.1	P908035-01A	Soil	08/13/19	08/15/19	Glass Jar, 4 oz.
S-1.2	P908035-02A	Soil	08/13/19	08/15/19	Glass Jar, 4 oz.
S-1.3	P908035-03A	Soil	08/13/19	08/15/19	Glass Jar, 4 oz.
S-1.4	P908035-04A	Soil	08/13/19	08/15/19	Glass Jar, 4 oz.

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Boyd X State Com #15H
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
08/16/19 16:11

S-1.1

P908035-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	33.1	2.50	mg/kg	100	1933026	08/15/19	08/15/19	EPA 8021B	
Toluene	277	2.50	mg/kg	100	1933026	08/15/19	08/15/19	EPA 8021B	
Ethylbenzene	178	2.50	mg/kg	100	1933026	08/15/19	08/15/19	EPA 8021B	
p,m-Xylene	135	5.00	mg/kg	100	1933026	08/15/19	08/15/19	EPA 8021B	
o-Xylene	57.5	2.50	mg/kg	100	1933026	08/15/19	08/15/19	EPA 8021B	
Total Xylenes	192	2.50	mg/kg	100	1933026	08/15/19	08/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	1933026	08/15/19	08/15/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	16800	250	mg/kg	10	1933027	08/15/19	08/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	3860	500	mg/kg	10	1933027	08/15/19	08/15/19	EPA 8015D	
Surrogate: n-Nonane		679 %		50-200	1933027	08/15/19	08/15/19	EPA 8015D	Surr2

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	1720	200	mg/kg	10	1933026	08/15/19	08/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.8 %		50-150	1933026	08/15/19	08/16/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1933028	08/15/19	08/15/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Boyd X State Com #15H
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
08/16/19 16:11

S-1.2

P908035-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Toluene	0.0841	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Ethylbenzene	0.147	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
p,m-Xylene	0.131	0.0500	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
o-Xylene	0.0827	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Total Xylenes	0.214	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		109 %		50-150	1933026	08/15/19	08/15/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	95.4	25.0	mg/kg	1	1933027	08/15/19	08/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	53.2	50.0	mg/kg	1	1933027	08/15/19	08/15/19	EPA 8015D	
Surrogate: n-Nonane		115 %		50-200	1933027	08/15/19	08/15/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %		50-150	1933026	08/15/19	08/15/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	172	20.0	mg/kg	1	1933028	08/15/19	08/15/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
 104 South 4th Street
 Artesia NM, 88210

 Project Name: Boyd X State Com #15H
 Project Number: 19034-0001
 Project Manager: Robert Asher

 Reported:
 08/16/19 16:11

S-1.3
P908035-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		109 %		50-150	1933026	08/15/19	08/15/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1933027	08/15/19	08/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1933027	08/15/19	08/15/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		108 %		50-200	1933027	08/15/19	08/15/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.5 %		50-150	1933026	08/15/19	08/15/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1933028	08/15/19	08/15/19	EPA 300.0/9056A	
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EOG Resources Inc. - Carlsbad
 104 South 4th Street
 Artesia NM, 88210

 Project Name: Boyd X State Com #15H
 Project Number: 19034-0001
 Project Manager: Robert Asher

 Reported:
 08/16/19 16:11

S-1.4
P908035-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.603	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Toluene	6.52	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Ethylbenzene	7.93	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
p,m-Xylene	6.99	0.0500	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
o-Xylene	3.15	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Total Xylenes	10.1	0.0250	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1933026	08/15/19	08/15/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	2240	50.0	mg/kg	2	1933027	08/15/19	08/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	344	100	mg/kg	2	1933027	08/15/19	08/15/19	EPA 8015D	
Surrogate: n-Nonane		171 %		50-200	1933027	08/15/19	08/15/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	124	20.0	mg/kg	1	1933026	08/15/19	08/15/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %		50-150	1933026	08/15/19	08/15/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1933028	08/15/19	08/15/19	EPA 300.0/9056A	

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Boyd X State Com #15H
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
08/16/19 16:11

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1933026 - Purge and Trap EPA 5030A

Blank (1933026-BLK1)

Prepared & Analyzed: 08/15/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.59		"	8.00		107	50-150			

LCS (1933026-BS1)

Prepared & Analyzed: 08/15/19 1

Benzene	4.90	0.0250	mg/kg	5.00		98.0	70-130			
Toluene	4.96	0.0250	"	5.00		99.2	70-130			
Ethylbenzene	4.90	0.0250	"	5.00		98.1	70-130			
p,m-Xylene	10.0	0.0500	"	10.0		100	70-130			
o-Xylene	4.90	0.0250	"	5.00		98.0	70-130			
Total Xylenes	14.9	0.0250	"	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.64		"	8.00		108	50-150			

Matrix Spike (1933026-MS1)

Source: P908036-01

Prepared: 08/15/19 1 Analyzed: 08/16/19 1

Benzene	4.77	0.0250	mg/kg	5.00	ND	95.5	54.3-133			
Toluene	4.80	0.0250	"	5.00	ND	96.0	61.4-130			
Ethylbenzene	4.78	0.0250	"	5.00	ND	95.6	61.4-133			
p,m-Xylene	9.75	0.0500	"	10.0	ND	97.5	63.3-131			
o-Xylene	4.76	0.0250	"	5.00	ND	95.2	63.3-131			
Total Xylenes	14.5	0.0250	"	15.0	ND	96.8	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8.59		"	8.00		107	50-150			

Matrix Spike Dup (1933026-MSD1)

Source: P908036-01

Prepared: 08/15/19 1 Analyzed: 08/15/19 2

Benzene	4.79	0.0250	mg/kg	5.00	ND	95.7	54.3-133	0.221	20	
Toluene	4.78	0.0250	"	5.00	ND	95.7	61.4-130	0.303	20	
Ethylbenzene	4.77	0.0250	"	5.00	ND	95.3	61.4-133	0.287	20	
p,m-Xylene	9.71	0.0500	"	10.0	ND	97.1	63.3-131	0.486	20	
o-Xylene	4.75	0.0250	"	5.00	ND	95.1	63.3-131	0.181	20	
Total Xylenes	14.5	0.0250	"	15.0	ND	96.4	63.3-131	0.386	20	
Surrogate: 4-Bromochlorobenzene-PID	8.57		"	8.00		107	50-150			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Boyd X State Com #15H
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
08/16/19 16:11

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1933027 - DRO Extraction EPA 3570

Blank (1933027-BLK1)

Prepared & Analyzed: 08/15/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	52.0		"	50.0		104	50-200			

LCS (1933027-BS1)

Prepared: 08/15/19 1 Analyzed: 08/15/19 2

Diesel Range Organics (C10-C28)	486	25.0	mg/kg	500		97.3	38-132			
Surrogate: n-Nonane	51.1		"	50.0		102	50-200			

Matrix Spike (1933027-MS1)

Source: P908036-02

Prepared: 08/15/19 1 Analyzed: 08/15/19 2

Diesel Range Organics (C10-C28)	542	25.0	mg/kg	500	ND	108	38-132			
Surrogate: n-Nonane	55.5		"	50.0		111	50-200			

Matrix Spike Dup (1933027-MSD1)

Source: P908036-02

Prepared: 08/15/19 1 Analyzed: 08/15/19 2

Diesel Range Organics (C10-C28)	563	25.0	mg/kg	500	ND	113	38-132	3.85	20	
Surrogate: n-Nonane	57.6		"	50.0		115	50-200			

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EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Boyd X State Com #15H
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
08/16/19 16:11

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1933026 - Purge and Trap EPA 5030A

Blank (1933026-BLK1)

Prepared & Analyzed: 08/15/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.46		"	8.00		93.2	50-150			

LCS (1933026-BS2)

Prepared: 08/15/19 1 Analyzed: 08/15/19 2

Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0		95.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		"	8.00		95.4	50-150			

Matrix Spike (1933026-MS2)

Source: P908036-01

Prepared: 08/15/19 1 Analyzed: 08/15/19 2

Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0	ND	97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.8	50-150			

Matrix Spike Dup (1933026-MSD2)

Source: P908036-01

Prepared: 08/15/19 1 Analyzed: 08/15/19 2

Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0	ND	99.4	70-130	1.78	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		"	8.00		95.3	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad	Project Name:	Boyd X State Com #15H	Reported: 08/16/19 16:11
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Asher	

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1933028 - Anion Extraction EPA 300.0/9056A

Blank (1933028-BLK1)

Prepared & Analyzed: 08/15/19 1

Chloride	ND	20.0	mg/kg
----------	----	------	-------

LCS (1933028-BS1)

Prepared & Analyzed: 08/15/19 1

Chloride	257	20.0	mg/kg	250	103	90-110
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Matrix Spike (1933028-MS1)

Source: P908036-01

Prepared & Analyzed: 08/15/19 1

Chloride	291	20.0	mg/kg	250	26.1	106	80-120
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Matrix Spike Dup (1933028-MSD1)

Source: P908036-01

Prepared & Analyzed: 08/15/19 1

Chloride	286	20.0	mg/kg	250	26.1	104	80-120	1.55	20
----------	-----	------	-------	-----	------	-----	--------	------	----

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Boyd X State Com #15H
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
08/16/19 16:11

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Chain of Custody

Project Information

Client: EOG Resources, Inc.		Report Attention		Lab Use Only		TAT		EPA Program	
Project: Boyd X State Com #15H		Report due by: 8/16/2019		Lab WO#		Job Number		RCRA	
Project Manager: Robert Asher		Attention: Robert Asher		P 19034-0001		1D 13D		CWA	
Address: 104 South 4th Street		Address: 104 South 4th Street		19034-0001		X			
City, State, Zip Artesia, NM 88210		City, State, Zip Artesia, NM 88210		Analysis and Method				State	
Phone: (575) 748-4217		Phone: (575) 748-4217							
Email: robert_asher@eogresources.com		Email: robert_asher@eogresources.com							

[illegible]



Additional Instructions:

PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

5.5 is incoher

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) 	Date 8/13/19	Time 12:28 PM	Received by: (Signature) 	Date 8/13/19	Time 10:10
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

(Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Container Type: **e - glass**, **p - poly/plastic**, **ap - amber glass**, **v - VOA**

virotech
Analytical Laboratory

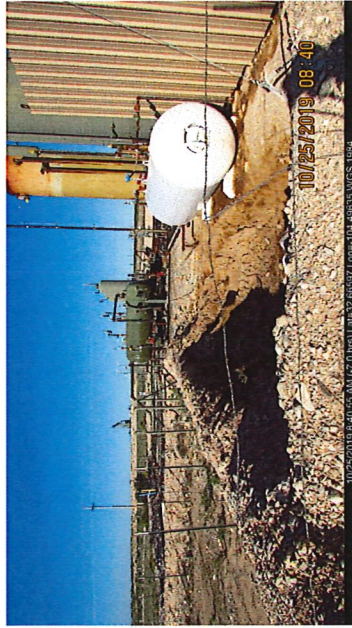
5796 US Highway 64, Farmington, NM 87401
24 hour Emergency Response Phone (80

Ph (505) 632-0615 FX (505) 632-1865

labad@envirotech-inc.com
envirotech-inc.com

Appendix 7

Photos



Appendix 8

Form C-141

Release Notification

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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1923358230
District RP	2RP-5594
Facility ID	
Application ID	pAB1923356505

Release Notification

OH0TL-190809-C-1410

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Robert Asher	Contact Telephone 575-748-4217
Contact email bob_asher@eogresources.com	Incident # (assigned by OCD) NAB1923358230
Contact mailing address 104 S. 4 th Artesia, New Mexico 88210	

Location of Release Source

Latitude 32.66305 Longitude -104.49832
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Boyd X State Com #15H	Site Type: Battery
Date Release Discovered: 7/28/2019	API# 30-015-42223

Unit Letter	Section	Township	Range	County
E	16	19S	25E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 1	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 4	Volume Recovered (bbls) 3
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Dump on water side of heater treater, the 1/4" nipple on bottom of dump valve corroded and popped off causing release.


State of New Mexico
Oil Conservation Division

Incident ID	NAB1923358230
District RP	2RP-5594
Facility ID	
Application ID	pAB1923356505

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: <u>Robert Asher</u>	Title: <u>Environmental Supervisor</u>
Signature: 	Date: <u>8/9/2019</u>
email: <u>bob_asher@eogresources.com</u>	Telephone: <u>575-748-4217</u>
<u>OCD Only</u>	
Received by: <u>Amalia Bustamante</u>	Date: <u>8/21/2019</u>

Appendix 9

Form C-141

Site Assessment/Characterization/Remediation Plan

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	95 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Robert AsherTitle: Environmental SupervisorSignature: Date: 1/6/2020email: bob_asher@eogresources.comTelephone: 575-748-4217**OCD Only**

Received by: _____

Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Robert Asher

Title: Environmental Supervisor

Signature: 

Date: 1/6/2020

email: bob_asher@eogresources.com

Telephone: 575-748-4217

OCD Only

Received by: _____ Date: _____

☐ Approved☐ Approved with Attached Conditions of Approval☐ Denied☐ Deferral Approved

Signature: _____

Date: _____