



**WSP USA**

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Midland, Texas 79705  
432.704.5178

July 7, 2021

District II  
New Mexico Oil Conservation Division  
811 South First Street  
Artesia, New Mexico 88210

**Re: Remediation Work Plan  
State GQ Com 002H  
Incident Number NAPP2110641182  
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of Concho Operating, LLC (COG), presents the following Remediation Work Plan detailing remediation activities completed to date and proposed additional remedial actions to address residual impacted soil resulting from a release of produced water at the State GQ Com 002H (Site). The Site is located in Unit H, Section 7, Township 25 South, Range 28 East, in Eddy County, New Mexico (Figure 1).

## **RELEASE BACKGROUND**

On April 5, 2021, a poly line was run over which resulted in the release of approximately 13 barrels (bbls) of produced water. No fluids were recovered. The release occurred on the lease road and adjacent pasture land owned by the New Mexico State Land Office (SLO), and covered an approximate 14,198 square-foot area. The release extent includes one buried gas line operated by Crestwood Pipeline (Crestwood), Select Energy Services' pump, and overhead Xcel Energy (Xcel) electrical line with associated utility pole.

COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on April 16, 2021. The release was assigned Incident Number NAPP2110641182.

## **SITE CHARACTERIZATION**

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320920104065801, located approximately 0.7 miles northeast of the Site. The groundwater well has a depth to groundwater of approximately 15 feet bgs and an unknown total depth. There are three additional groundwater wells within a 2.5-mile radius of the Site that indicate regional



depth to groundwater is less than 50 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent arroyo located approximately 0.63 miles north-northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not located within an area underlain by unstable geology (medium potential karst designation area). The Site receptors are identified on Figure 1.

### **CLOSURE CRITERIA**

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

### **SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS**

On April 20, 2021, WSP personnel inspected the Site to evaluate the release extent and collect preliminary assessment soil samples based on visual observations and information provided by COG personnel. WSP personnel collected five preliminary soil samples (SS01 through SS05) within the release extent from a depth of approximately 0.25 feet bgs. The release extent and preliminary soil sample locations were mapped using a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. In addition, Select Energy Services' pump, Crestwood's gas pipeline, and overhead Xcel electrical line were mapped using a GPS unit and are depicted on Figure 2. Photo documentation of the release area and equipment is included as Attachment 2.

The preliminary soil samples were screened for volatile aromatic hydrocarbons and chloride using a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Each soil sample was placed directly into a pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis, and immediately placed on ice. The samples were transported to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH by EPA Method 8015M/D, and chloride by EPA Method 300.0.



Laboratory analytical results indicated no benzene, BTEX, or TPH concentrations were detected in preliminary soil samples SS01, and SS03 through SS05; TPH concentrations exceeded the Closure Criteria in preliminary soil sample SS02. Laboratory analytical results indicated chloride concentrations exceeded the Closure Criteria in preliminary soil samples SS01 through SS05. Visible staining was also observed within the release extent. Based on the approximate unrecovered volume of produced water (13 bbls), visible staining, and laboratory analytical results for the preliminary soil samples, further site assessment activities were warranted.

### **DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS**

WSP personnel returned to the Site on April 28, 2021, to conduct additional site assessment via delineation soil sample collection. WSP personnel advanced four potholes (PH01 through PH04) via backhoe within the release extent to delineate the vertical extent of impacted soil. Discrete delineation soil samples were collected from potholes PH01 through PH04 at depths ranging from approximately 1-foot bgs to 9 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. Two delineation soil samples were submitted for laboratory analysis from each pothole, the sample with highest field screening result and the sample from the terminus of the pothole. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 3. The delineation pothole soil samples were collected, handled, and analyzed as described above and submitted to Eurofins in Carlsbad, New Mexico. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results indicated no benzene, BTEX, or TPH concentrations were detected in any of the delineation soil samples. Laboratory analytical results indicated that chloride concentrations were compliant with the Closure Criteria in both delineation samples collected from PH02 and PH02A and in the terminus samples collected from PH01, PH03, and PH04. However, chloride concentrations exceeded the Closure Criteria in the 1-foot bgs sample from potholes PH01, PH03, and PH04. The terminal sample in each pothole was below 600 mg/kg for chloride. Chloride impacted soil is delineated vertically to the most stringent Table 1 Closure Criteria in all potholes. Analytical results are summarized on Table 1 and laboratory analytical reports are included in Attachment 4.

### **PROPOSED REMEDIATION WORK PLAN**

Further remediation efforts were postponed following submission of a Right of Entry (ROE) Permit requesting access from SLO. The ROE was submitted to the SLO on June 24, 2021, and the executed permit is pending. Once the executed permit is received by COG, additional remediation efforts will proceed.

An estimated 1,470 cubic yards of impacted soil is present within the subsurface at the Site. Due to the nature of the release (produced water containing chloride) and extent of impact in the

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subsurface (chloride impacts ranging between approximately 1-foot bgs to a maximum of 9 feet bgs), WSP proposes excavation of the top 0.5 feet of the subsurface in the lease road, and excavation of the subsurface in the adjacent pasture to depths ranging between 1 foot and 9 feet bgs. All removed impacted soil will be disposed of at a licensed disposal facility.

COG is requesting a variance to the 200 square foot confirmation sampling requirement for the area to be excavated, which would require an estimated 71 floor samples within the release extent, excluding sidewall samples. Due to the large size of the affected area, WSP proposes increasing the confirmation sampling size to collecting a 5-point composite sample to represent each 500 square foot area. An estimated 28 samples will be collected from the excavation floor to address the release extent. The estimated excavation extent with estimated excavation depths is depicted on Figure 4.

Following removal of impacted soil, 5-point composite confirmation samples will be collected from the sidewalls and floor of the excavation. Sidewall samples will be collected when the excavation depth exceeds 1.5 feet bgs. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The composite samples will not represent any area greater than 500 square feet as depicted by the sampling grid on Figure 4. Figure 4 does not illustrate sidewall sample locations, which will also be collected to represent 500 square feet sampling areas. The excavation soil samples will be collected and handled following the same procedures as described above and analyzed at Eurofins in Carlsbad, New Mexico. Once COG has confirmed all impacted soil is successfully removed, the excavation will be backfilled with material purchased locally and recontoured to match pre-existing site conditions. The disturbed pasture will be re-seeded with an approved BLM seed mixture.

COG anticipates beginning remediation within 2 weeks of receipt of the access permit from SLO. A final report requesting closure will be submitted within 2 weeks of receipt of final laboratory analytical results. The finalized version of the Form C-141 is included in Attachment 5.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads 'Kalei Jennings'.

Kalei Jennings  
Associate Consultant

A handwritten signature in black ink that reads 'Ashley L. Ager'.

Ashley L. Ager, P.G.  
Managing Director, Geologist



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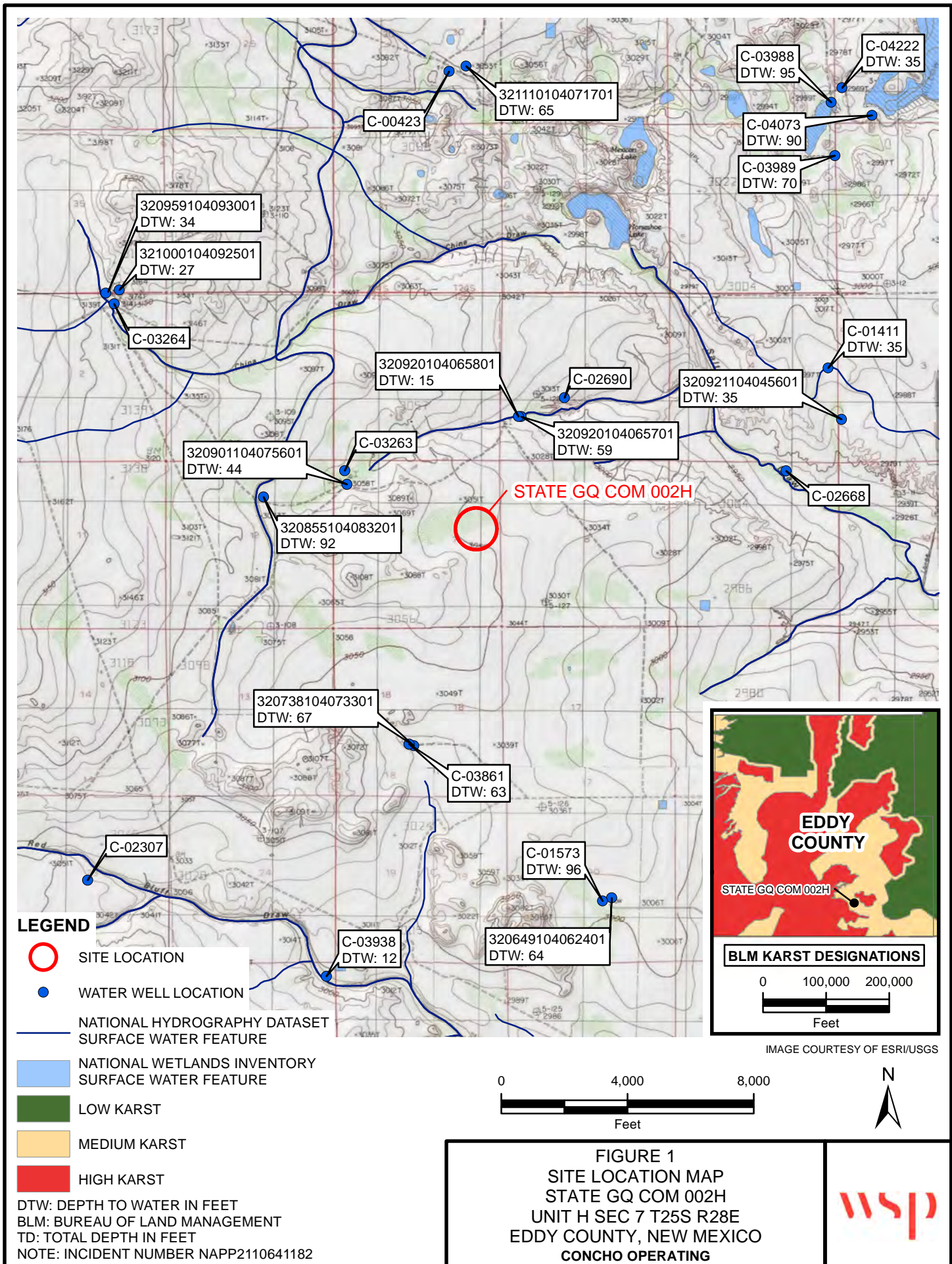
cc: Jacqui Harris, COG  
Ryan Mann, New Mexico State Land Office

Attachments:

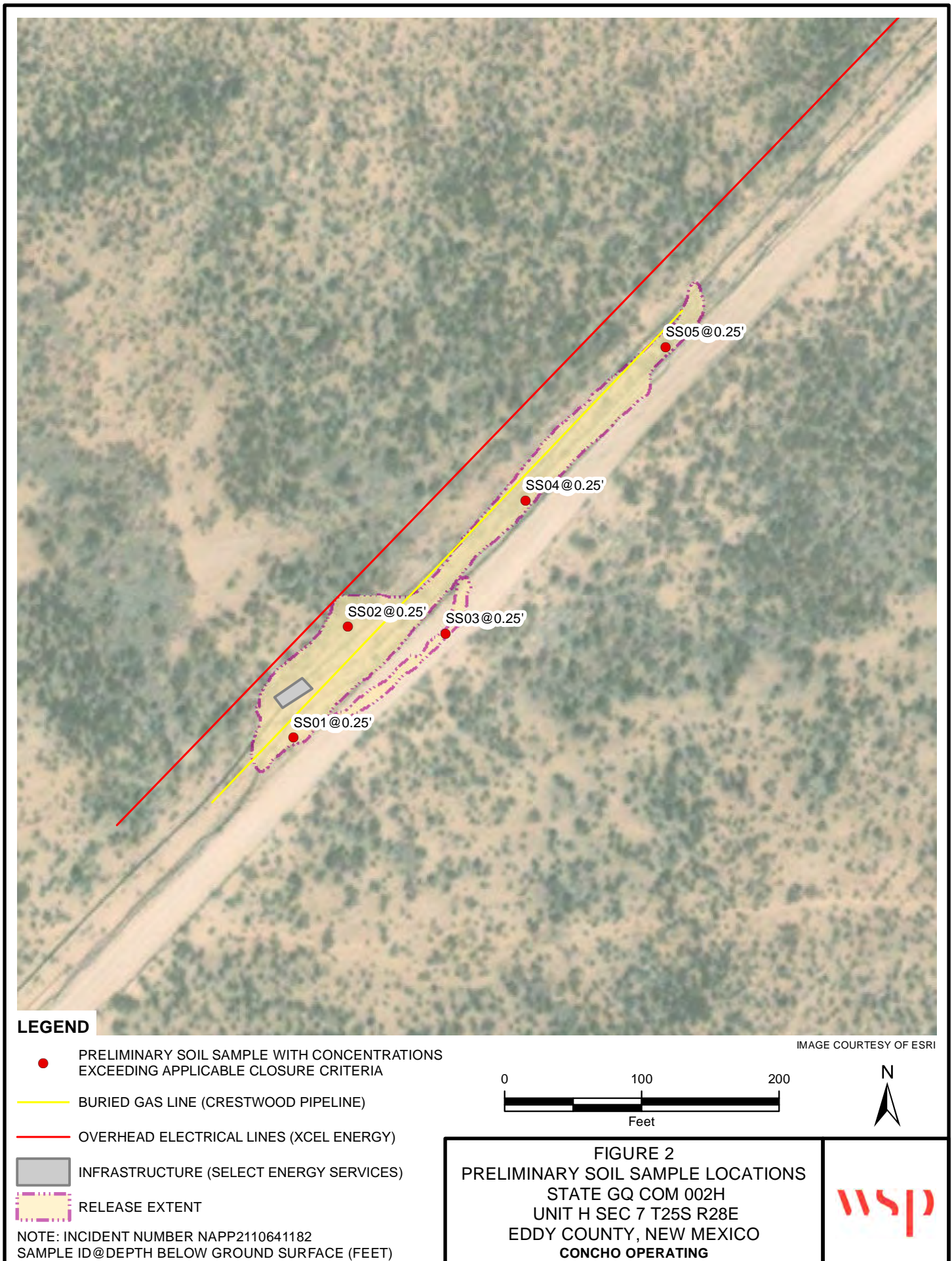
Figure 1 Site Location Map  
Figure 2 Preliminary Soil Sample Locations  
Figure 3 Delineation Soil Sample Locations  
Figure 4 Excavation Soil Sample Locations  
Table 1 Soil Analytical Results  
Attachment 1 Referenced Well Records  
Attachment 2 Photographic Log  
Attachment 3 Lithologic/Sampling Log  
Attachment 4 Laboratory Analytical Reports  
Attachment 5 Final C-141

FIGURES









C:\Users\UHS682642\Desktop\GIS\Rebecca\31402909.040\_STATE GQ COM 002H\31402909.040\_STATE GQ COM 002H\31402909.040\_FIG02\_PRELIMINARY2021.mxd



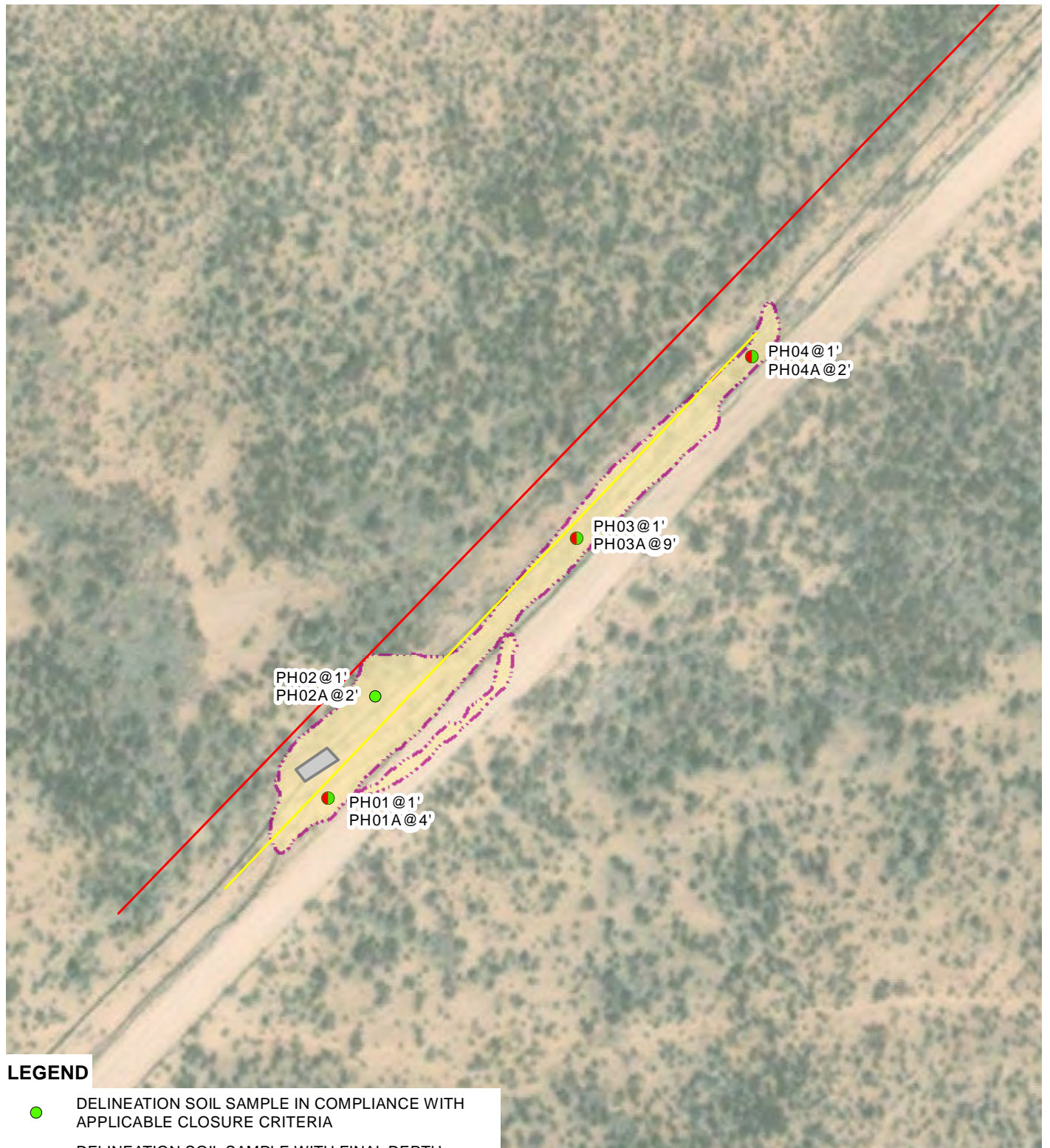
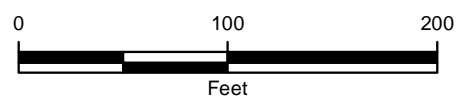


IMAGE COURTESY OF ESRI

**LEGEND**

- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE WITH FINAL DEPTH CONCENTRATIONS IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- BURIED GAS LINE (CRESTWOOD PIPELINE)
- OVERHEAD ELECTRICAL LINES (XCEL ENERGY)
- INFRASTRUCTURE (SELECT ENERGY SERVICES)
- RELEASE EXTENT

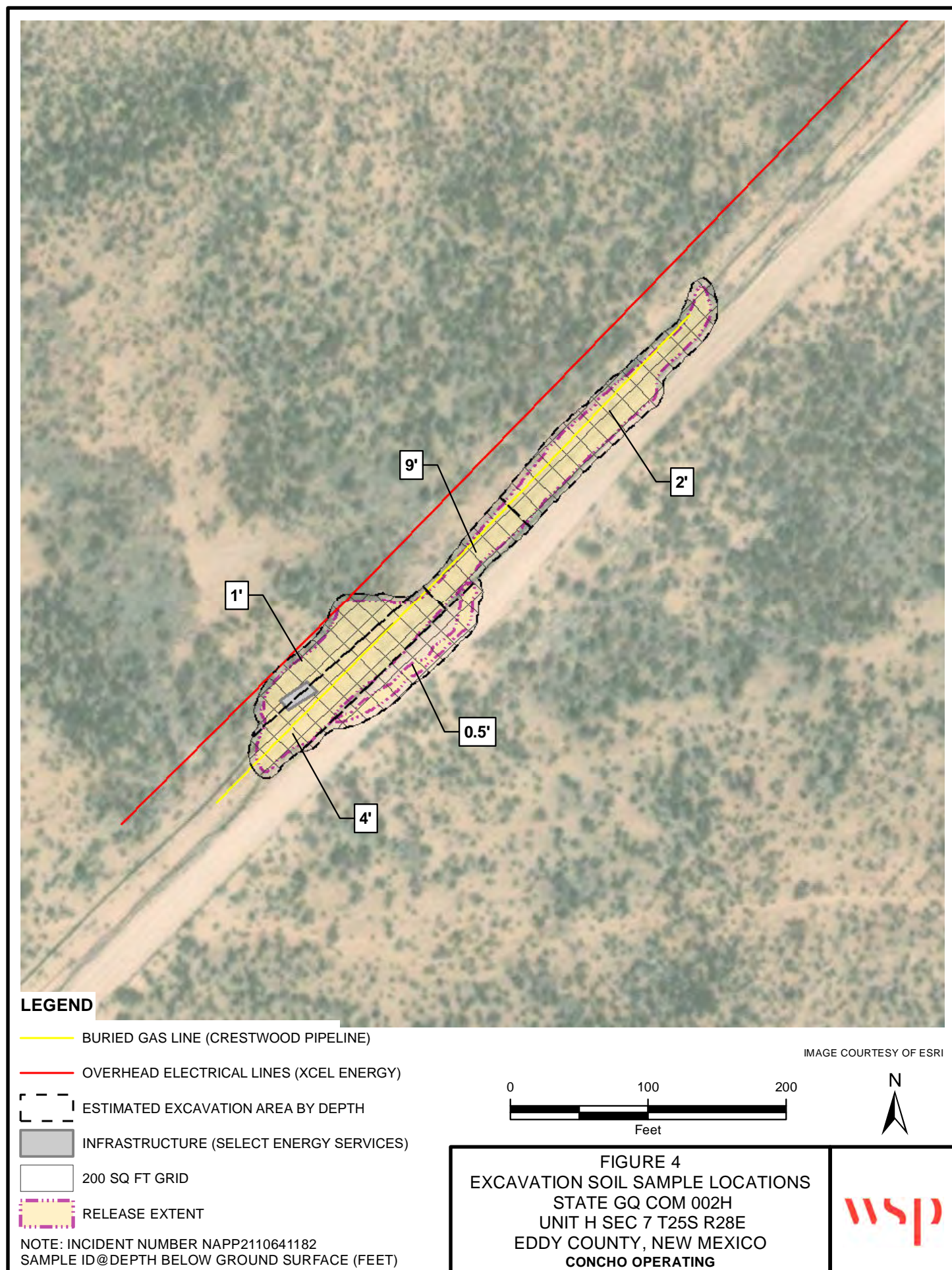
NOTE: INCIDENT NUMBER NAPP2110641182  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)



**FIGURE 3**  
**DELINEATION SOIL SAMPLE LOCATIONS**  
 STATE GQ COM 002H  
 UNIT H SEC 7 T25S R28E  
 EDDY COUNTY, NEW MEXICO  
**CONCHO OPERATING**







TABLES

Table 1

Soil Analytical Results  
State GQ Com 002H  
Incident Number NAPP2110641182  
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Surface Samples										
SS01	04/20/2021	0.25	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	16,500
SS02	04/20/2021	0.25	<0.00199	<0.00398	<50.0	1,780	<50.0	1,780	1,780	663
SS03	04/20/2021	0.25	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	21,000
SS04	04/20/2021	0.25	<0.00201	0.00460	<50.0	<50.0	<50.0	<50.0	<50.0	31,100
SS05	04/20/2021	0.25	<0.00200	<0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	20,700
Delineation Samples										
PH01	04/28/2021	1	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	3,700
PH01A	04/28/2021	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	66.9
PH02	04/28/2021	1	0.00276	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	28.7
PH02A	04/28/2021	2	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	16.3
PH03	04/28/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6,520
PH03A	04/28/2021	9	0.00489	0.00489	<50.0	<50.0	<50.0	<50.0	<50.0	147
PH04	04/28/2021	1	0.00307	0.00518	<50.0	<50.0	<50.0	<50.0	<50.0	2,340
PH04A	04/28/2021	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	37.2

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

&lt; - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

**BOLD** - indicates results exceed the higher of the background sample result or applicable regulatory standard



ATTACHMENT 1: REFERENCED WELL RECORDS



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USGS 320920104065801 25S.28E.05.33111

Eddy County, New Mexico  
Latitude 32°09'20", Longitude 104°06'58" NAD27  
Land-surface elevation 3,012 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1978-01-11			D	62610	2955.96	NGVD29	1		Z	
1978-01-11			D	62611	2957.56	NAVD88	1		Z	
1978-01-11			D	72019	54.44		1		Z	
1983-02-02			D	62610	2954.77	NGVD29	1		Z	
1983-02-02			D	62611	2956.37	NAVD88	1		Z	
1983-02-02			D	72019	55.63		1		Z	
1987-10-09			D	62610	2995.47	NGVD29	1		Z	
1987-10-09			D	62611	2997.07	NAVD88	1		Z	
1987-10-09			D	72019	14.93		1		Z	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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- 320901104075601

Minimum number of levels = 1

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### USGS 320901104075601 25S.28E.07.11143

Eddy County, New Mexico

Latitude 32°08'59.3", Longitude 104°08'03.0" NAD83

Land-surface elevation 3,042.00 feet above NGVD29

The depth of the well is 133 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### Output formats

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<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1978-01-11			D 62610		2967.42	NGVD29	1		Z	
1978-01-11			D 62611		2969.04	NAVD88	1		Z	
1978-01-11			D 72019	74.58			1		Z	
1983-02-02			D 62610		2993.78	NGVD29	1		Z	
1983-02-02			D 62611		2995.40	NAVD88	1		Z	
1983-02-02			D 72019	48.22			1		Z	
1987-10-09			D 62610		2968.86	NGVD29	1		Z	
1987-10-09			D 62611		2970.48	NAVD88	1		Z	
1987-10-09			D 72019	73.14			1		Z	
1988-04-07			D 62610		2974.04	NGVD29	1		Z	
1988-04-07			D 62611		2975.66	NAVD88	1		Z	
1988-04-07			D 72019	67.96			1		Z	
1992-12-08			D 62610		2967.70	NGVD29	1		S	
1992-12-08			D 62611		2969.32	NAVD88	1		S	
1992-12-08			D 72019	74.30			1		S	
1998-01-27			D 62610		2996.95	NGVD29	1		S	
1998-01-27			D 62611		2998.57	NAVD88	1		S	



Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1998-01-27			D	72019	45.05		1	S		
2003-02-10			D	62610	2995.70	NGVD29	1	S	USGS	
2003-02-10			D	62611	2997.32	NAVD88	1	S	USGS	
2003-02-10			D	72019	46.30		1	S	USGS	
2013-01-10	00:30 UTC		m	62610	2997.81	NGVD29	1	S	USGS	
2013-01-10	00:30 UTC		m	62611	2999.43	NAVD88	1	S	USGS	
2013-01-10	00:30 UTC		m	72019	44.19		1	S	USGS	

## Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Minimum number of levels = 1

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### USGS 320921104045601 25S.28E.04.42444

Eddy County, New Mexico

Latitude 32°09'19.4", Longitude 104°05'00.6" NAD83

Land-surface elevation 2,973.30 feet above NGVD29

The depth of the well is 68 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### Output formats

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<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1983-02-16			D 62610		2948.25	NGVD29	1	Z		
1983-02-16			D 62611		2949.83	NAVD88	1	Z		
1983-02-16			D 72019	25.05			1	Z		
1987-10-14			D 62610		2950.28	NGVD29	1	Z		
1987-10-14			D 62611		2951.86	NAVD88	1	Z		
1987-10-14			D 72019	23.02			1	Z		
1992-11-18			D 62610		2947.50	NGVD29	1	S		
1992-11-18			D 62611		2949.08	NAVD88	1	S		
1992-11-18			D 72019	25.80			1	S		
1998-01-23			D 62610		2945.56	NGVD29	1	S		
1998-01-23			D 62611		2947.14	NAVD88	1	S		
1998-01-23			D 72019	27.74			1	S		
2003-01-27			D 62610		2944.13	NGVD29	1	S	USGS	
2003-01-27			D 62611		2945.71	NAVD88	1	S	USGS	
2003-01-27			D 72019	29.17			1	S	USGS	
2013-01-10	21:00 UTC	m	62610		2941.40	NGVD29	1	S	USGS	
2013-01-10	21:00 UTC	m	62611		2942.98	NAVD88	1	S	USGS	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
2013-01-10	21:00 UTC	m	72019	31.90			1	S	USGS	
2018-02-14	17:22 UTC	m	62610		2933.64	NGVD29	3	S	USGS	
2018-02-14	17:22 UTC	m	62611		2935.22	NAVD88	3	S	USGS	
2018-02-14	17:22 UTC	m	72019	39.66			3	S	USGS	
2021-02-24	19:26 UTC	m	62610		2938.30	NGVD29	1	S	USGS	
2021-02-24	19:26 UTC	m	62611		2939.88	NAVD88	1	S	USGS	
2021-02-24	19:26 UTC	m	72019	35.00			1	S	USGS	

## Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	3	True value is above reported value due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for USA: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2021-06-30 15:43:20 EDT

0.29 0.24 nadww02





# New Mexico Office of the State Engineer

## Water Right Summary



WR File Number: C 01411

Subbasin: C

Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 3

Cause/Case: -

Owner: JOY E COOKSEY

### Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/		Acres	Diversion	Consumptive
				1	2		To				
	<a href="#">666216</a>	<a href="#">COWNF</a>	<a href="#">2020-01-23</a>	CHG	PRC	C 01411	T			0	
	<a href="#">666178</a>	<a href="#">72121</a>	<a href="#">2020-01-23</a>	PMT	LOG	C 01411 CLW POD2	T			3	
	<a href="#">463106</a>	<a href="#">72121</a>	<a href="#">1974-11-26</a>	PMT	APR	C 01411 RPR	T			3	
	<a href="#">463103</a>	<a href="#">72121</a>	<a href="#">1969-10-01</a>	PMT	LOG	C 01411	T			3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q				64Q16Q4Sec Tw		Rng	X	Y	Other Location Desc
<a href="#">C 01411 POD2</a>	2237E	Shallow	4	2	4	04	25S	28E		586374	3558036	

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.

6/30/21 1:46 PM

WATER RIGHT SUMMARY



ATTACHMENT 2: PHOTOGRAPHIC LOG



# PHOTOGRAPHIC LOG

Concho Operating, LLC

State GQ Com 002H  
Eddy County, New Mexico

NAPP2110641182

Photo No.	Date	
1	April 12, 2021	
Initial view of release area.		

Photo No.	Date	
2	April 12, 2021	
Initial view of release area.		



PHOTOGRAPHIC LOG		
Concho Operating, LLC	State GQ Com 002H Eddy County, New Mexico	NAPP2110641182

Photo No.	Date	
3	April 20, 2021	
View of staining on lease road near SS03 during initial site assessment.		 A photograph showing a wide, unpaved dirt road in a dry, open landscape. The road surface is light brown and shows signs of wear and staining. To the left of the road, there are several dark, horizontal lines, possibly pipes or ditches. In the background, there are utility poles and a clear blue sky.

Photo No.	Date	
4	April 20, 2021	
View of adjacent pasture area showing SS02 and SS01 locations during initial site assessment.		 A photograph showing a dirt road leading into a pasture area. In the distance, a red piece of machinery, possibly a pump or generator, is visible on the road. The landscape is flat and dry, with sparse vegetation. Utility poles are visible in the background under a clear blue sky.



**PHOTOGRAPHIC LOG****Concho Operating, LLC****State GQ Com 002H  
Eddy County, New Mexico****NAPP2110641182**

Photo No.	Date	
5	April 20, 2021	
View of SS04 location during initial site assessment.		

Photo No.	Date	
6	April 20, 2021	
View of adjacent pasture area near SS05 location during initial site assessment.		



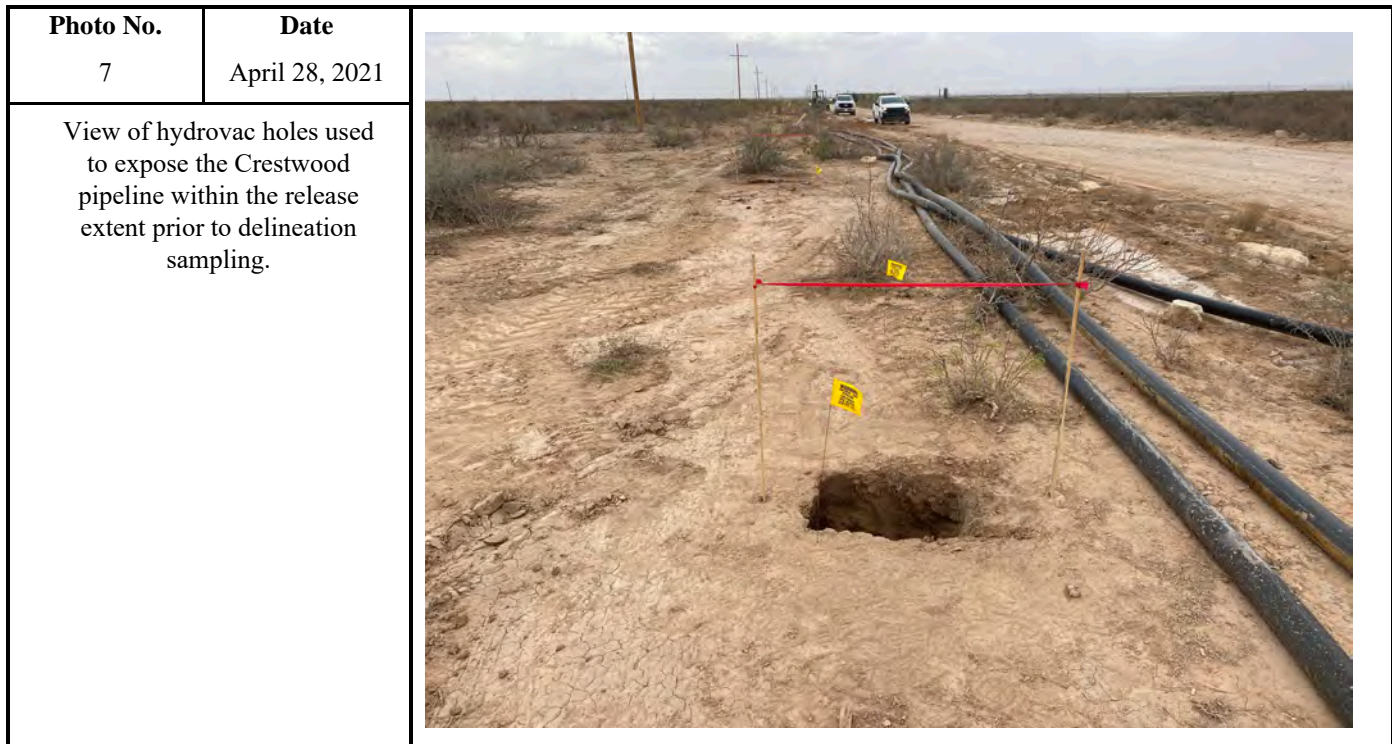


## PHOTOGRAPHIC LOG


Concho Operating, LLC


State GQ Com 002H  
Eddy County, New Mexico


NAPP2110641182




ATTACHMENT 3: LITHOLOGIC/SAMPLING LOG

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		PH01		4/28/2021				
		Site Name:		State GQ Com 2				
		RP or Incident Number:		NAPP2110641182				
		LTE Job Number:		31402909.04				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening:		Hole Diameter:				
32.146126, -104.120703		Chloride, PID		1.5'				
Total Depth: 4'								
Comments: 40% Correction factor included in Chloride concentrations								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	11,698	3.4	N	PH01		1		0 - 4' : Sand, fine grain, poorly graded, some silt, brown, no odor
M	10,819	0.6	N			2	SM	4': Sandstone, poorly consolidated, fine grain, silty, tan/brown, no odor
						3		
M	<168	0.3	N	PH01A		4	SM-S	
						5		TD @ 4' bgs
						6		
						7		
						8		
						9		
						10		
						11		
						12		
						13		
						14		
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						23		
						24		
						25		

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		PH02		4/28/2021				
		Site Name:		State GQ Com 2				
		RP or Incident Number:		NAPP2110641182				
		LTE Job Number:		31402909.04				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>				Logged By WM				
Lat/Long:		Field Screening:		Hole Diameter:				
32.146303, -104.120603		Chloride, PID		1.5'				
Total Depth: 2'								
Comments:								
40% Correction factor included in Chloride concentrations								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	<168	1.3	N	PH02		1	SM	0 - 2' : Sand, fine grain, poorly graded, some silt, brown, no odor
M	<168	1.5	N	PH02A		2		
						3		TD @ 2' bgs
						4		
						5		
						6		
						7		
						8		
						9		
						10		
						11		
						12		
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						25		

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		PH03		4/28/2021				
		Site Name:		State GQ Com 2				
		RP or Incident Number:		NAPP2110641182				
		LTE Job Number:		31402909.04				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening:		Hole Diameter:				
32.146585, -104.120185		Chloride, PID		1.5'				
Total Depth: 9'								
Comments:								
40% Correction factor included in Chloride concentrations								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	11,698	0.9	N	PH03		1	SM	0 - 8' : Sand, fine grain, poorly graded, some silt, brown, no odor
M	10,819	0.6	N			2		4': Organic odor noted in soil
						3		
M	5,353	0.5	N			4		8' - 9' : Sandstone, poorly consolidated, fine grain, little silt, tan/brown, no odor
						5		
M	5,353	0.4	N			6		
M	879	0.8	N			7		
M	207	0.3	N	PH03A		8	SM-S	
						9		
						10		TD @ 9' bgs
						11		
						12		
						13		
						14		
						15		
						16		
						17		
						18		
						19		
						20		
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						23		
						24		
						25		

 <b>WSP USA</b> 508 West Stevens Street Carlsbad, New Mexico 88220		BH or PH Name:		Date:				
		PH04		4/28/2021				
		Site Name:		State GQ Com 2				
		RP or Incident Number:		NAPP2110641182				
		LTE Job Number:		31402909.04				
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long:		Field Screening:		Hole Diameter:				
32.146907, -104.119813		Chloride, PID		1.5'				
Total Depth: 2'								
Comments: 40% Correction factor included in Chloride concentrations								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
M	12,346	1	N	PH04		1	SM	0 - 2' : Sand, fine grain, poorly graded, some silt, brown, odor
M	<168	0.1	N	PH04A		2		2' : Odor no longer present
						3		TD @ 2' bgs
						4		
						5		
						6		
						7		
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ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-543-1

Laboratory Sample Delivery Group: Eddy  
Client Project/Site: State GQ Com 2 - 31402909.04

**For:**

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
4/22/2021 7:38:22 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Laboratory Job ID: 890-543-1  
SDG: Eddy

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

---

**Job ID: 890-543-1**

---

**Laboratory: Eurofins Xenco, Carlsbad****Narrative**

---

**Job Narrative  
890-543-1****Comments**

No additional comments.

**Receipt**

The samples were received on 4/20/2021 2:26 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.4° C.

**Receipt Exceptions**

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: SS01 (890-543-1), SS02 (890-543-2), SS03 (890-543-3), SS04 (890-543-4) and SS05 (890-543-5).

**GC VOA**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**GC Semi VOA**

Method 8015B NM: The laboratory control sample (LCS) associated with preparation batch 880-2052 and analytical batch 880-2091 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**General Chemistry**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**Organic Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

**VOA Prep**

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

Client Sample ID: SS01

Lab Sample ID: 890-543-1

Date Collected: 04/20/21 12:07

Matrix: Solid

Date Received: 04/20/21 14:26

Sample Depth: - 0.25

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 05:54	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 05:54	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 05:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/21 10:24	04/22/21 05:54	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 05:54	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/21 10:24	04/22/21 05:54	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/21/21 10:24	04/22/21 05:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	04/21/21 10:24	04/22/21 05:54	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/21/21 10:24	04/22/21 05:54	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		04/21/21 12:00	04/21/21 23:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/21/21 12:00	04/21/21 23:20	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/21 12:00	04/21/21 23:20	1
Total TPH	<49.9	U	49.9		mg/Kg		04/21/21 12:00	04/21/21 23:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130	04/21/21 12:00	04/21/21 23:20	1
o-Terphenyl	106		70 - 130	04/21/21 12:00	04/21/21 23:20	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16500		99.4		mg/Kg			04/21/21 17:36	20

Client Sample ID: SS02

Lab Sample ID: 890-543-2

Date Collected: 04/20/21 12:10

Matrix: Solid

Date Received: 04/20/21 14:26

Sample Depth: - 0.25

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/21/21 10:24	04/22/21 06:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/21/21 10:24	04/22/21 06:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/21/21 10:24	04/22/21 06:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		04/21/21 10:24	04/22/21 06:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		04/21/21 10:24	04/22/21 06:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		04/21/21 10:24	04/22/21 06:14	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		04/21/21 10:24	04/22/21 06:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/21/21 10:24	04/22/21 06:14	1
1,4-Difluorobenzene (Surr)	109		70 - 130	04/21/21 10:24	04/22/21 06:14	1

Eurofins Xenco, Carlsbad



## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

Client Sample ID: SS02

Lab Sample ID: 890-543-2

Date Collected: 04/20/21 12:10

Matrix: Solid

Date Received: 04/20/21 14:26

Sample Depth: - 0.25

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0		mg/Kg		04/21/21 12:00	04/21/21 23:41	1
Diesel Range Organics (Over C10-C28)	1780		50.0		mg/Kg		04/21/21 12:00	04/21/21 23:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/21 12:00	04/21/21 23:41	1
Total TPH	1780		50.0		mg/Kg		04/21/21 12:00	04/21/21 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	04/21/21 12:00	04/21/21 23:41	1
o-Terphenyl	92		70 - 130	04/21/21 12:00	04/21/21 23:41	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	663		24.9		mg/Kg			04/21/21 17:41	5

Client Sample ID: SS03

Lab Sample ID: 890-543-3

Date Collected: 04/20/21 12:15

Matrix: Solid

Date Received: 04/20/21 14:26

Sample Depth: - 0.25

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		04/21/21 10:24	04/22/21 06:35	1
Toluene	<0.00202	U	0.00202		mg/Kg		04/21/21 10:24	04/22/21 06:35	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		04/21/21 10:24	04/22/21 06:35	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		04/21/21 10:24	04/22/21 06:35	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		04/21/21 10:24	04/22/21 06:35	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		04/21/21 10:24	04/22/21 06:35	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		04/21/21 10:24	04/22/21 06:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	04/21/21 10:24	04/22/21 06:35	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/21 10:24	04/22/21 06:35	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9		mg/Kg		04/21/21 12:00	04/22/21 00:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/21/21 12:00	04/22/21 00:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/21/21 12:00	04/22/21 00:01	1
Total TPH	<49.9	U	49.9		mg/Kg		04/21/21 12:00	04/22/21 00:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/21/21 12:00	04/22/21 00:01	1
o-Terphenyl	94		70 - 130	04/21/21 12:00	04/22/21 00:01	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21000		248		mg/Kg			04/21/21 17:46	50

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

Client Sample ID: SS04

Lab Sample ID: 890-543-4

Date Collected: 04/20/21 12:18

Matrix: Solid

Date Received: 04/20/21 14:26

Sample Depth: - 0.25

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/21/21 10:24	04/22/21 06:55	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/21/21 10:24	04/22/21 06:55	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/21/21 10:24	04/22/21 06:55	1
m-Xylene & p-Xylene	0.00460		0.00402		mg/Kg		04/21/21 10:24	04/22/21 06:55	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		04/21/21 10:24	04/22/21 06:55	1
Xylenes, Total	0.00460		0.00402		mg/Kg		04/21/21 10:24	04/22/21 06:55	1
Total BTEX	0.00460		0.00402		mg/Kg		04/21/21 10:24	04/22/21 06:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	04/21/21 10:24	04/22/21 06:55	1
1,4-Difluorobenzene (Surr)	104		70 - 130	04/21/21 10:24	04/22/21 06:55	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0		mg/Kg		04/21/21 12:00	04/22/21 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/21/21 12:00	04/22/21 00:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/21/21 12:00	04/22/21 00:22	1
Total TPH	<50.0	U	50.0		mg/Kg		04/21/21 12:00	04/22/21 00:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	04/21/21 12:00	04/22/21 00:22	1
o-Terphenyl	96		70 - 130	04/21/21 12:00	04/22/21 00:22	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31100		252		mg/Kg			04/21/21 17:51	50

Client Sample ID: SS05

Lab Sample ID: 890-543-5

Date Collected: 04/20/21 12:22

Matrix: Solid

Date Received: 04/20/21 14:26

Sample Depth: - 0.25

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 07:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 07:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 07:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		04/21/21 10:24	04/22/21 07:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 07:16	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		04/21/21 10:24	04/22/21 07:16	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		04/21/21 10:24	04/22/21 07:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	04/21/21 10:24	04/22/21 07:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/21/21 10:24	04/22/21 07:16	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

Client Sample ID: SS05

Lab Sample ID: 890-543-5

Date Collected: 04/20/21 12:22

Matrix: Solid

Date Received: 04/20/21 14:26

Sample Depth: - 0.25

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *+	49.8		mg/Kg		04/21/21 12:00	04/22/21 00:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/21/21 12:00	04/22/21 00:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/21/21 12:00	04/22/21 00:43	1
Total TPH	<49.8	U	49.8		mg/Kg		04/21/21 12:00	04/22/21 00:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/21/21 12:00	04/22/21 00:43	1
o-Terphenyl	97		70 - 130	04/21/21 12:00	04/22/21 00:43	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20700		252		mg/Kg			04/21/21 17:56	50

Eurofins Xenco, Carlsbad

# Surrogate Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-543-1	SS01	94	91
890-543-2	SS02	110	109
890-543-3	SS03	113	104
890-543-4	SS04	107	104
890-543-5	SS05	122	100
LCS 880-2088/1-A	Lab Control Sample	107	100
LCSD 880-2088/2-A	Lab Control Sample Dup	110	101
MB 880-2085/5-A	Method Blank	87	92
MB 880-2088/5-A	Method Blank	87	90
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-543-1	SS01	114	106
890-543-2	SS02	106	92
890-543-3	SS03	102	94
890-543-4	SS04	103	96
890-543-5	SS05	104	97
LCS 880-2052/2-A	Lab Control Sample	112	96
LCSD 880-2052/3-A	Lab Control Sample Dup	128	108
MB 880-2052/1-A	Method Blank	104	98
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2085/5-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2085

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:10	04/21/21 13:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/21 10:10	04/21/21 13:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/21 10:10	04/21/21 13:15	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/21/21 10:10	04/21/21 13:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	04/21/21 10:10	04/21/21 13:15	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/21/21 10:10	04/21/21 13:15	1

Lab Sample ID: MB 880-2088/5-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 00:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 00:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 00:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/21/21 10:24	04/22/21 00:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/21/21 10:24	04/22/21 00:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/21/21 10:24	04/22/21 00:06	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		04/21/21 10:24	04/22/21 00:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	04/21/21 10:24	04/22/21 00:06	1
1,4-Difluorobenzene (Surr)	90		70 - 130	04/21/21 10:24	04/22/21 00:06	1

Lab Sample ID: LCS 880-2088/1-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2088

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1035		mg/Kg		104	70 - 130
Toluene	0.100	0.09777		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1017		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2162		mg/Kg		108	70 - 130
o-Xylene	0.100	0.1097		mg/Kg		110	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Eurofins Xenco, Carlsbad



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-2088/2-A

Matrix: Solid

Analysis Batch: 2084

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2088

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1018		mg/Kg		102	70 - 130	2	35
Toluene	0.100	0.09706		mg/Kg		97	70 - 130	1	35
Ethylbenzene	0.100	0.1003		mg/Kg		100	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2144		mg/Kg		107	70 - 130	1	35
o-Xylene	0.100	0.1080		mg/Kg		108	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-2052/1-A

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2052

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/20/21 15:03	04/21/21 15:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/20/21 15:03	04/21/21 15:58	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/20/21 15:03	04/21/21 15:58	1
Total TPH	<50.0	U	50.0		mg/Kg		04/20/21 15:03	04/21/21 15:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	04/20/21 15:03	04/21/21 15:58	1
o-Terphenyl	98		70 - 130	04/20/21 15:03	04/21/21 15:58	1

Lab Sample ID: LCS 880-2052/2-A

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2052

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1234		mg/Kg		123	70 - 130
Diesel Range Organics (Over C10-C28)	1000	894.9		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-2052/3-A

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2052

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1443	*+	mg/Kg		144	70 - 130	16	20

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-2052/3-A

Matrix: Solid

Analysis Batch: 2091

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2052

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1033		mg/Kg		103	70 - 130	14	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	108		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2096/1-A

Matrix: Solid

Analysis Batch: 2117

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			04/21/21 15:29	1

Lab Sample ID: LCS 880-2096/2-A

Matrix: Solid

Analysis Batch: 2117

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	253.2		mg/Kg		101	90 - 110

Lab Sample ID: LCSD 880-2096/3-A

Matrix: Solid

Analysis Batch: 2117

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	259.0		mg/Kg		104	90 - 110	2	20

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

## GC VOA

## Analysis Batch: 2084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-543-1	SS01	Total/NA	Solid	8021B	2088
890-543-2	SS02	Total/NA	Solid	8021B	2088
890-543-3	SS03	Total/NA	Solid	8021B	2088
890-543-4	SS04	Total/NA	Solid	8021B	2088
890-543-5	SS05	Total/NA	Solid	8021B	2088
MB 880-2085/5-A	Method Blank	Total/NA	Solid	8021B	2085
MB 880-2088/5-A	Method Blank	Total/NA	Solid	8021B	2088
LCS 880-2088/1-A	Lab Control Sample	Total/NA	Solid	8021B	2088
LCSD 880-2088/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2088

## Prep Batch: 2085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2085/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 2088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-543-1	SS01	Total/NA	Solid	5035	
890-543-2	SS02	Total/NA	Solid	5035	
890-543-3	SS03	Total/NA	Solid	5035	
890-543-4	SS04	Total/NA	Solid	5035	
890-543-5	SS05	Total/NA	Solid	5035	
MB 880-2088/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2088/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2088/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## GC Semi VOA

## Prep Batch: 2052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-543-1	SS01	Total/NA	Solid	8015NM Prep	
890-543-2	SS02	Total/NA	Solid	8015NM Prep	
890-543-3	SS03	Total/NA	Solid	8015NM Prep	
890-543-4	SS04	Total/NA	Solid	8015NM Prep	
890-543-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-2052/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2052/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2052/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 2091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-543-1	SS01	Total/NA	Solid	8015B NM	2052
890-543-2	SS02	Total/NA	Solid	8015B NM	2052
890-543-3	SS03	Total/NA	Solid	8015B NM	2052
890-543-4	SS04	Total/NA	Solid	8015B NM	2052
890-543-5	SS05	Total/NA	Solid	8015B NM	2052
MB 880-2052/1-A	Method Blank	Total/NA	Solid	8015B NM	2052
LCS 880-2052/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2052
LCSD 880-2052/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2052

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

## HPLC/IC

## Leach Batch: 2096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-543-1	SS01	Soluble	Solid	DI Leach	
890-543-2	SS02	Soluble	Solid	DI Leach	
890-543-3	SS03	Soluble	Solid	DI Leach	
890-543-4	SS04	Soluble	Solid	DI Leach	
890-543-5	SS05	Soluble	Solid	DI Leach	
MB 880-2096/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2096/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2096/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Analysis Batch: 2117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-543-1	SS01	Soluble	Solid	300.0	2096
890-543-2	SS02	Soluble	Solid	300.0	2096
890-543-3	SS03	Soluble	Solid	300.0	2096
890-543-4	SS04	Soluble	Solid	300.0	2096
890-543-5	SS05	Soluble	Solid	300.0	2096
MB 880-2096/1-A	Method Blank	Soluble	Solid	300.0	2096
LCS 880-2096/2-A	Lab Control Sample	Soluble	Solid	300.0	2096
LCSD 880-2096/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2096



## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

Client Sample ID: SS01

Lab Sample ID: 890-543-1

Date Collected: 04/20/21 12:07

Matrix: Solid

Date Received: 04/20/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2088	04/21/21 10:24	KL	XM
Total/NA	Analysis	8021B		1	2084	04/22/21 05:54	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/21/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 23:20	AJ	XM
Soluble	Leach	DI Leach			2096	04/21/21 12:55	CH	XM
Soluble	Analysis	300.0		20	2117	04/21/21 17:36	CH	XM

Client Sample ID: SS02

Lab Sample ID: 890-543-2

Date Collected: 04/20/21 12:10

Matrix: Solid

Date Received: 04/20/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2088	04/21/21 10:24	KL	XM
Total/NA	Analysis	8021B		1	2084	04/22/21 06:14	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/21/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/21/21 23:41	AJ	XM
Soluble	Leach	DI Leach			2096	04/21/21 12:55	CH	XM
Soluble	Analysis	300.0		5	2117	04/21/21 17:41	CH	XM

Client Sample ID: SS03

Lab Sample ID: 890-543-3

Date Collected: 04/20/21 12:15

Matrix: Solid

Date Received: 04/20/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2088	04/21/21 10:24	KL	XM
Total/NA	Analysis	8021B		1	2084	04/22/21 06:35	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/21/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/22/21 00:01	AJ	XM
Soluble	Leach	DI Leach			2096	04/21/21 12:55	CH	XM
Soluble	Analysis	300.0		50	2117	04/21/21 17:46	CH	XM

Client Sample ID: SS04

Lab Sample ID: 890-543-4

Date Collected: 04/20/21 12:18

Matrix: Solid

Date Received: 04/20/21 14:26

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2088	04/21/21 10:24	KL	XM
Total/NA	Analysis	8021B		1	2084	04/22/21 06:55	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/21/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/22/21 00:22	AJ	XM
Soluble	Leach	DI Leach			2096	04/21/21 12:55	CH	XM
Soluble	Analysis	300.0		50	2117	04/21/21 17:51	CH	XM

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

**Client Sample ID: SS05****Lab Sample ID: 890-543-5****Date Collected: 04/20/21 12:22****Matrix: Solid****Date Received: 04/20/21 14:26**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2088	04/21/21 10:24	KL	XM
Total/NA	Analysis	8021B		1	2084	04/22/21 07:16	KL	XM
Total/NA	Prep	8015NM Prep			2052	04/21/21 12:00	DM	XM
Total/NA	Analysis	8015B NM		1	2091	04/22/21 00:43	AJ	XM
Soluble	Leach	DI Leach			2096	04/21/21 12:55	CH	XM
Soluble	Analysis	300.0		50	2117	04/21/21 17:56	CH	XM

**Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

**Accreditation/Certification Summary**

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

**Laboratory: Eurofins Xenco, Midland**

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Eurofins Xenco, Carlsbad

## Method Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

## Sample Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2 - 31402909.04

Job ID: 890-543-1  
SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-543-1	SS01	Solid	04/20/21 12:07	04/20/21 14:26	- 0.25
890-543-2	SS02	Solid	04/20/21 12:10	04/20/21 14:26	- 0.25
890-543-3	SS03	Solid	04/20/21 12:15	04/20/21 14:26	- 0.25
890-543-4	SS04	Solid	04/20/21 12:18	04/20/21 14:26	- 0.25
890-543-5	SS05	Solid	04/20/21 12:22	04/20/21 14:26	- 0.25





Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
 Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

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## Chain of Custody

Work Order No: \_\_\_\_\_

Project Manager:	Kalei Jennings	Bill to: (if different)	Ike Tavares
Company Name:	WSP USA Inc., Permian office	Company Name:	Concho Operating
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	will.mather@wsp.com, kalei.jennings@wsp.com, itavarez@concho.com

<b>Program:</b> <input checked="" type="checkbox"/> UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <b>State of Project:</b>	
<b>Reporting Level:</b> <input checked="" type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> P/T/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>	<b>Deliverables:</b> <input type="checkbox"/> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:

Project Name:	State GQ Com 2	Turn Around		<b>ANALYSIS REQUEST</b>   890-543 Chain of Custody	<b>Work Order Notes</b>
Project Number:	31402909.04	Routine	<input checked="" type="checkbox"/>		
P.O. Number:	Eddy	Rush:			
Sampler's Name:	William Mather	Due Date:			
<b>SAMPLE RECEIPT</b>					
Temperature (°C):		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	2011-503		
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	4.6		
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Total Containers:	4.4		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers										Sample Comments
					TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)								
SS01	S	4/20/2021	12:07	0.25'	1	X	X	X							Discrete
SS02	S	4/20/2021	12:10	0.25'	1	X	X	X							Discrete
SS03	S	4/20/2021	12:15	0.25'	1	X	X	X							Discrete
SS04	S	4/20/2021	12:18	0.25'	1	X	X	X							Discrete
SS05	S	4/20/2021	12:22	0.25'	1	X	X	X							Discrete

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn  
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631/245.1/2470/2474-Hg

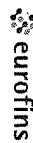
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	4.20.21 1425	2		
3			4		
5			6		

Eurofins Xenco, Carlsbad

1089 N Canal St.  
Carlsbad NM 88220  
Phone 575-988-3199 Fax 575-988-3199

## Chain of Custody Record



## Environment Testing America

[illegible]



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-607-1

Laboratory Sample Delivery Group: 31402909.04

Client Project/Site: State GQ Com 2

For:

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
5/6/2021 6:15:15 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Laboratory Job ID: 890-607-1  
SDG: 31402909.04

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

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**Job ID: 890-607-1**

---

**Laboratory: Eurofins Xenco, Carlsbad**

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**Narrative**

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**Job Narrative**  
**890-607-1**

**Receipt**

The samples were received on 4/30/2021 1:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH03A (890-607-6) and PH04 (890-607-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC Semi VOA**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**HPLC/IC**

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Client Sample ID: PH01

Lab Sample ID: 890-607-1

Date Collected: 04/28/21 10:06

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 1

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/03/21 10:04	05/03/21 16:53	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/03/21 10:04	05/03/21 16:53	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/03/21 10:04	05/03/21 16:53	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/03/21 10:04	05/03/21 16:53	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/03/21 10:04	05/03/21 16:53	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/03/21 10:04	05/03/21 16:53	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/03/21 10:04	05/03/21 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	05/03/21 10:04	05/03/21 16:53	1
1,4-Difluorobenzene (Surr)	115		70 - 130	05/03/21 10:04	05/03/21 16:53	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 11:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 11:32	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 11:32	1
Total TPH	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 11:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/03/21 10:04	05/03/21 11:32	1
o-Terphenyl	117		70 - 130	05/03/21 10:04	05/03/21 11:32	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3700		25.0		mg/Kg			05/05/21 21:39	5

Client Sample ID: PH01A

Lab Sample ID: 890-607-2

Date Collected: 04/28/21 10:18

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 4

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 17:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 17:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 17:13	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/03/21 10:04	05/03/21 17:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 17:13	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/03/21 10:04	05/03/21 17:13	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/03/21 10:04	05/03/21 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/03/21 10:04	05/03/21 17:13	1
1,4-Difluorobenzene (Surr)	125		70 - 130	05/03/21 10:04	05/03/21 17:13	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Client Sample ID: PH01A

Lab Sample ID: 890-607-2

Date Collected: 04/28/21 10:18

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 4

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 12:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 12:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 12:35	1
Total TPH	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 12:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130	05/03/21 10:04	05/03/21 12:35	1
o-Terphenyl	110		70 - 130	05/03/21 10:04	05/03/21 12:35	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.9		5.02		mg/Kg			05/05/21 21:42	1

Client Sample ID: PH02

Lab Sample ID: 890-607-3

Date Collected: 04/28/21 10:35

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 1

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00276		0.00201		mg/Kg		05/03/21 10:04	05/03/21 19:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/03/21 10:04	05/03/21 19:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/03/21 10:04	05/03/21 19:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/03/21 10:04	05/03/21 19:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/03/21 10:04	05/03/21 19:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/03/21 10:04	05/03/21 19:59	1
Total BTEX	<0.00402	U	0.00402		mg/Kg		05/03/21 10:04	05/03/21 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	05/03/21 10:04	05/03/21 19:59	1
1,4-Difluorobenzene (Surr)	117		70 - 130	05/03/21 10:04	05/03/21 19:59	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		05/03/21 10:04	05/03/21 12:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		05/03/21 10:04	05/03/21 12:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/03/21 10:04	05/03/21 12:56	1
Total TPH	<49.8	U	49.8		mg/Kg		05/03/21 10:04	05/03/21 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	05/03/21 10:04	05/03/21 12:56	1
o-Terphenyl	111		70 - 130	05/03/21 10:04	05/03/21 12:56	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		5.00		mg/Kg			05/05/21 21:47	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Client Sample ID: PH02A

Lab Sample ID: 890-607-4

Date Collected: 04/28/21 10:37

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 2

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 20:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 20:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 20:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/03/21 10:04	05/03/21 20:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 20:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/03/21 10:04	05/03/21 20:19	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/03/21 10:04	05/03/21 20:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/03/21 10:04	05/03/21 20:19	1
1,4-Difluorobenzene (Surr)	122		70 - 130	05/03/21 10:04	05/03/21 20:19	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 13:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 13:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 13:17	1
Total TPH	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 13:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/03/21 10:04	05/03/21 13:17	1
o-Terphenyl	114		70 - 130	05/03/21 10:04	05/03/21 13:17	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16.3		5.04		mg/Kg			05/05/21 22:04	1

Client Sample ID: PH03

Lab Sample ID: 890-607-5

Date Collected: 04/28/21 11:10

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 1

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/03/21 10:04	05/03/21 20:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/03/21 10:04	05/03/21 20:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/03/21 10:04	05/03/21 20:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/03/21 10:04	05/03/21 20:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/03/21 10:04	05/03/21 20:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/03/21 10:04	05/03/21 20:40	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/03/21 10:04	05/03/21 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	05/03/21 10:04	05/03/21 20:40	1
1,4-Difluorobenzene (Surr)	128		70 - 130	05/03/21 10:04	05/03/21 20:40	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Client Sample ID: PH03

Lab Sample ID: 890-607-5

Date Collected: 04/28/21 11:10

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 13:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 13:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 13:39	1
Total TPH	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 13:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	05/03/21 10:04	05/03/21 13:39	1
o-Terphenyl	133	S1+	70 - 130	05/03/21 10:04	05/03/21 13:39	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6520		50.2		mg/Kg			05/05/21 22:09	10

Client Sample ID: PH03A

Lab Sample ID: 890-607-6

Date Collected: 04/28/21 11:44

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 9

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00489		0.00201		mg/Kg		05/04/21 09:33	05/05/21 03:52	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/04/21 09:33	05/05/21 03:52	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/04/21 09:33	05/05/21 03:52	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/04/21 09:33	05/05/21 03:52	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/04/21 09:33	05/05/21 03:52	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/04/21 09:33	05/05/21 03:52	1
Total BTEX	0.00489		0.00402		mg/Kg		05/04/21 09:33	05/05/21 03:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	163	S1+	70 - 130	05/04/21 09:33	05/05/21 03:52	1
1,4-Difluorobenzene (Surr)	81		70 - 130	05/04/21 09:33	05/05/21 03:52	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:00	1
Total TPH	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	05/03/21 10:04	05/03/21 14:00	1
o-Terphenyl	118		70 - 130	05/03/21 10:04	05/03/21 14:00	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		4.96		mg/Kg			05/05/21 22:25	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Client Sample ID: PH04

Lab Sample ID: 890-607-7

Date Collected: 04/28/21 12:07

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 1

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00307		0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:13	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:13	1
Ethylbenzene	0.00211		0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/21 11:15	05/05/21 04:13	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:13	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/21 11:15	05/05/21 04:13	1
Total BTEX	0.00518		0.00398		mg/Kg		05/04/21 11:15	05/05/21 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	225	S1+	70 - 130				05/04/21 11:15	05/05/21 04:13	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/04/21 11:15	05/05/21 04:13	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:21	1
Total TPH	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 14:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				05/03/21 10:04	05/03/21 14:21	1
o-Terphenyl	118		70 - 130				05/03/21 10:04	05/03/21 14:21	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2340		24.8		mg/Kg			05/05/21 22:30	5

Client Sample ID: PH04A

Lab Sample ID: 890-607-8

Date Collected: 04/28/21 12:08

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 2

## Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:34	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:34	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/04/21 11:15	05/05/21 04:34	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/04/21 11:15	05/05/21 04:34	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/04/21 11:15	05/05/21 04:34	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/04/21 11:15	05/05/21 04:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130				05/04/21 11:15	05/05/21 04:34	1
1,4-Difluorobenzene (Surr)	120		70 - 130				05/04/21 11:15	05/05/21 04:34	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Client Sample ID: PH04A

Lab Sample ID: 890-607-8

Date Collected: 04/28/21 12:08

Matrix: Solid

Date Received: 04/30/21 13:35

Sample Depth: - 2

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 14:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 14:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 14:43	1
Total TPH	<49.9	U	49.9		mg/Kg		05/03/21 10:04	05/03/21 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	05/03/21 10:04	05/03/21 14:43	1
o-Terphenyl	115		70 - 130	05/03/21 10:04	05/03/21 14:43	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	37.2		5.04		mg/Kg			05/05/21 22:36	1

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-607-1	PH01	96	115
890-607-2	PH01A	100	125
890-607-3	PH02	89	117
890-607-4	PH02A	106	122
890-607-5	PH03	100	128
890-607-6	PH03A	163 S1+	81
890-607-7	PH04	225 S1+	99
890-607-8	PH04A	96	120
LCS 880-2609/1-A	Lab Control Sample	93	119
LCS 880-2659/1-A	Lab Control Sample	90	109
LCSD 880-2609/2-A	Lab Control Sample Dup	93	115
LCSD 880-2659/2-A	Lab Control Sample Dup	87	106
MB 880-2609/5-A	Method Blank	113	106
MB 880-2659/5-A	Method Blank	107	99
MB 880-2670/5-A	Method Blank	104	102
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-607-1	PH01	106	117
890-607-1 MS	PH01	107	110
890-607-1 MSD	PH01	102	98
890-607-2	PH01A	103	110
890-607-3	PH02	102	111
890-607-4	PH02A	106	114
890-607-5	PH03	117	133 S1+
890-607-6	PH03A	108	118
890-607-7	PH04	108	118
890-607-8	PH04A	107	115
LCS 880-2610/2-A	Lab Control Sample	100	101
LCSD 880-2610/3-A	Lab Control Sample Dup	99	103
MB 880-2610/1-A	Method Blank	99	113
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2609/5-A

Matrix: Solid

Analysis Batch: 2612

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 13:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 13:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 13:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/03/21 10:04	05/03/21 13:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/03/21 10:04	05/03/21 13:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/03/21 10:04	05/03/21 13:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/03/21 10:04	05/03/21 13:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	05/03/21 10:04	05/03/21 13:55	1
1,4-Difluorobenzene (Surr)	106		70 - 130	05/03/21 10:04	05/03/21 13:55	1

Lab Sample ID: LCS 880-2609/1-A

Matrix: Solid

Analysis Batch: 2612

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1103		mg/Kg		110	70 - 130
Toluene	0.100	0.1084		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2070		mg/Kg		104	70 - 130
o-Xylene	0.100	0.09968		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

Lab Sample ID: LCSD 880-2609/2-A

Matrix: Solid

Analysis Batch: 2612

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2609

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1036		mg/Kg		104	70 - 130	6	35
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	5	35
Ethylbenzene	0.100	0.09489		mg/Kg		95	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1921		mg/Kg		96	70 - 130	7	35
o-Xylene	0.100	0.09189		mg/Kg		92	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	115		70 - 130

Lab Sample ID: MB 880-2659/5-A

Matrix: Solid

Analysis Batch: 2675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/04/21 09:33	05/05/21 02:06	1

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-2659/5-A

Matrix: Solid

Analysis Batch: 2675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2659

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/21 09:33	05/05/21 02:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/21 09:33	05/05/21 02:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/04/21 09:33	05/05/21 02:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/21 09:33	05/05/21 02:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/04/21 09:33	05/05/21 02:06	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/04/21 09:33	05/05/21 02:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	05/04/21 09:33	05/05/21 02:06	1
1,4-Difluorobenzene (Surr)	99		70 - 130	05/04/21 09:33	05/05/21 02:06	1

Lab Sample ID: LCS 880-2659/1-A

Matrix: Solid

Analysis Batch: 2675

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2659

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09880		mg/Kg		99	70 - 130
Toluene	0.100	0.09705		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08728		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	0.200	0.1832		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09086		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-2659/2-A

Matrix: Solid

Analysis Batch: 2675

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2659

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09254		mg/Kg		93	70 - 130	7	35
Toluene	0.100	0.09289		mg/Kg		93	70 - 130	4	35
Ethylbenzene	0.100	0.08899		mg/Kg		89	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1767		mg/Kg		88	70 - 130	4	35
o-Xylene	0.100	0.08930		mg/Kg		89	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	87		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: MB 880-2670/5-A

Matrix: Solid

Analysis Batch: 2675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/04/21 11:18	05/04/21 15:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/04/21 11:18	05/04/21 15:00	1

Eurofins Xenco, Carlsbad



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-2670/5-A

Matrix: Solid

Analysis Batch: 2675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/04/21 11:18	05/04/21 15:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/04/21 11:18	05/04/21 15:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/04/21 11:18	05/04/21 15:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/04/21 11:18	05/04/21 15:00	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/04/21 11:18	05/04/21 15:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/04/21 11:18	05/04/21 15:00	1
1,4-Difluorobenzene (Surr)	102		70 - 130	05/04/21 11:18	05/04/21 15:00	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-2610/1-A

Matrix: Solid

Analysis Batch: 2603

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2610

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 10:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 10:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 10:30	1
Total TPH	<50.0	U	50.0		mg/Kg		05/03/21 10:04	05/03/21 10:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	05/03/21 10:04	05/03/21 10:30	1
o-Terphenyl	113		70 - 130	05/03/21 10:04	05/03/21 10:30	1

Lab Sample ID: LCS 880-2610/2-A

Matrix: Solid

Analysis Batch: 2603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1072		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-2610/3-A

Matrix: Solid

Analysis Batch: 2603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2610

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1083		mg/Kg		108	70 - 130	1	20

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-2610/3-A

Matrix: Solid

Analysis Batch: 2603

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2610

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130	3	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	99		70 - 130						
o-Terphenyl	103		70 - 130						

Lab Sample ID: 890-607-1 MS

Matrix: Solid

Analysis Batch: 2603

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 2610

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1232		mg/Kg		123	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1240		mg/Kg		124	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	107		70 - 130								
o-Terphenyl	110		70 - 130								

Lab Sample ID: 890-607-1 MSD

Matrix: Solid

Analysis Batch: 2603

Client Sample ID: PH01

Prep Type: Total/NA

Prep Batch: 2610

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1182		mg/Kg		118	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1151		mg/Kg		115	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	102		70 - 130								
o-Terphenyl	98		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2729/1-A

Matrix: Solid

Analysis Batch: 2730

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/21 19:12	1

Lab Sample ID: LCS 880-2729/2-A

Matrix: Solid

Analysis Batch: 2730

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	247.6		mg/Kg		99	90 - 110		

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-2729/3-A

Matrix: Solid

Analysis Batch: 2730

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	248.0		mg/Kg		99	90 - 110	0	20

Lab Sample ID: MB 880-2712/1-A

Matrix: Solid

Analysis Batch: 2743

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/05/21 20:16	1

Lab Sample ID: LCS 880-2712/2-A

Matrix: Solid

Analysis Batch: 2743

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	232.5		mg/Kg		93	90 - 110		

Lab Sample ID: LCSD 880-2712/3-A

Matrix: Solid

Analysis Batch: 2743

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	234.9		mg/Kg		94	90 - 110	1	20

Lab Sample ID: 890-607-3 MS

Matrix: Solid

Analysis Batch: 2743

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	28.7		250	282.0		mg/Kg		101	90 - 110		

Lab Sample ID: 890-607-3 MSD

Matrix: Solid

Analysis Batch: 2743

Client Sample ID: PH02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	28.7		250	274.2		mg/Kg		98	90 - 110	3	20

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## GC VOA

## Prep Batch: 2609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-1	PH01	Total/NA	Solid	5035	
890-607-2	PH01A	Total/NA	Solid	5035	
890-607-3	PH02	Total/NA	Solid	5035	
890-607-4	PH02A	Total/NA	Solid	5035	
890-607-5	PH03	Total/NA	Solid	5035	
MB 880-2609/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2609/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2609/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 2612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-1	PH01	Total/NA	Solid	8021B	2609
890-607-2	PH01A	Total/NA	Solid	8021B	2609
890-607-3	PH02	Total/NA	Solid	8021B	2609
890-607-4	PH02A	Total/NA	Solid	8021B	2609
890-607-5	PH03	Total/NA	Solid	8021B	2609
MB 880-2609/5-A	Method Blank	Total/NA	Solid	8021B	2609
LCS 880-2609/1-A	Lab Control Sample	Total/NA	Solid	8021B	2609
LCSD 880-2609/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2609

## Prep Batch: 2659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-6	PH03A	Total/NA	Solid	5035	
890-607-7	PH04	Total/NA	Solid	5035	
890-607-8	PH04A	Total/NA	Solid	5035	
MB 880-2659/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2659/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2659/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Prep Batch: 2670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2670/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 2675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-6	PH03A	Total/NA	Solid	8021B	2659
890-607-7	PH04	Total/NA	Solid	8021B	2659
890-607-8	PH04A	Total/NA	Solid	8021B	2659
MB 880-2659/5-A	Method Blank	Total/NA	Solid	8021B	2659
MB 880-2670/5-A	Method Blank	Total/NA	Solid	8021B	2670
LCS 880-2659/1-A	Lab Control Sample	Total/NA	Solid	8021B	2659
LCSD 880-2659/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2659

## GC Semi VOA

## Analysis Batch: 2603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-1	PH01	Total/NA	Solid	8015B NM	2610
890-607-2	PH01A	Total/NA	Solid	8015B NM	2610
890-607-3	PH02	Total/NA	Solid	8015B NM	2610
890-607-4	PH02A	Total/NA	Solid	8015B NM	2610

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## GC Semi VOA (Continued)

## Analysis Batch: 2603 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-5	PH03	Total/NA	Solid	8015B NM	2610
890-607-6	PH03A	Total/NA	Solid	8015B NM	2610
890-607-7	PH04	Total/NA	Solid	8015B NM	2610
890-607-8	PH04A	Total/NA	Solid	8015B NM	2610
MB 880-2610/1-A	Method Blank	Total/NA	Solid	8015B NM	2610
LCS 880-2610/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2610
LCSD 880-2610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2610
890-607-1 MS	PH01	Total/NA	Solid	8015B NM	2610
890-607-1 MSD	PH01	Total/NA	Solid	8015B NM	2610

## Prep Batch: 2610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-1	PH01	Total/NA	Solid	8015NM Prep	
890-607-2	PH01A	Total/NA	Solid	8015NM Prep	
890-607-3	PH02	Total/NA	Solid	8015NM Prep	
890-607-4	PH02A	Total/NA	Solid	8015NM Prep	
890-607-5	PH03	Total/NA	Solid	8015NM Prep	
890-607-6	PH03A	Total/NA	Solid	8015NM Prep	
890-607-7	PH04	Total/NA	Solid	8015NM Prep	
890-607-8	PH04A	Total/NA	Solid	8015NM Prep	
MB 880-2610/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2610/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-607-1 MS	PH01	Total/NA	Solid	8015NM Prep	
890-607-1 MSD	PH01	Total/NA	Solid	8015NM Prep	

## HPLC/IC

## Leach Batch: 2712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-2	PH01A	Soluble	Solid	DI Leach	
890-607-3	PH02	Soluble	Solid	DI Leach	
890-607-4	PH02A	Soluble	Solid	DI Leach	
890-607-5	PH03	Soluble	Solid	DI Leach	
890-607-6	PH03A	Soluble	Solid	DI Leach	
890-607-7	PH04	Soluble	Solid	DI Leach	
890-607-8	PH04A	Soluble	Solid	DI Leach	
MB 880-2712/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2712/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2712/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-607-3 MS	PH02	Soluble	Solid	DI Leach	
890-607-3 MSD	PH02	Soluble	Solid	DI Leach	

## Leach Batch: 2729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-1	PH01	Soluble	Solid	DI Leach	
MB 880-2729/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2729/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2729/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## HPLC/IC

## Analysis Batch: 2730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-1	PH01	Soluble	Solid	300.0	2729
MB 880-2729/1-A	Method Blank	Soluble	Solid	300.0	2729
LCS 880-2729/2-A	Lab Control Sample	Soluble	Solid	300.0	2729
LCSD 880-2729/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2729

## Analysis Batch: 2743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-607-2	PH01A	Soluble	Solid	300.0	2712
890-607-3	PH02	Soluble	Solid	300.0	2712
890-607-4	PH02A	Soluble	Solid	300.0	2712
890-607-5	PH03	Soluble	Solid	300.0	2712
890-607-6	PH03A	Soluble	Solid	300.0	2712
890-607-7	PH04	Soluble	Solid	300.0	2712
890-607-8	PH04A	Soluble	Solid	300.0	2712
MB 880-2712/1-A	Method Blank	Soluble	Solid	300.0	2712
LCS 880-2712/2-A	Lab Control Sample	Soluble	Solid	300.0	2712
LCSD 880-2712/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2712
890-607-3 MS	PH02	Soluble	Solid	300.0	2712
890-607-3 MSD	PH02	Soluble	Solid	300.0	2712



## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Client Sample ID: PH01

Lab Sample ID: 890-607-1

Date Collected: 04/28/21 10:06

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2609	05/03/21 10:04	KL	XM
Total/NA	Analysis	8021B		1	2612	05/03/21 16:53	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 11:32	AJ	XM
Soluble	Leach	DI Leach			2729	05/05/21 13:32	SC	XM
Soluble	Analysis	300.0		5	2730	05/05/21 21:39	WP	XM

Client Sample ID: PH01A

Lab Sample ID: 890-607-2

Date Collected: 04/28/21 10:18

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2609	05/03/21 10:04	KL	XM
Total/NA	Analysis	8021B		1	2612	05/03/21 17:13	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 12:35	AJ	XM
Soluble	Leach	DI Leach			2712	05/05/21 10:42	CH	XM
Soluble	Analysis	300.0		1	2743	05/05/21 21:42	WP	XM

Client Sample ID: PH02

Lab Sample ID: 890-607-3

Date Collected: 04/28/21 10:35

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2609	05/03/21 10:04	KL	XM
Total/NA	Analysis	8021B		1	2612	05/03/21 19:59	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 12:56	AJ	XM
Soluble	Leach	DI Leach			2712	05/05/21 10:42	CH	XM
Soluble	Analysis	300.0		1	2743	05/05/21 21:47	WP	XM

Client Sample ID: PH02A

Lab Sample ID: 890-607-4

Date Collected: 04/28/21 10:37

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2609	05/03/21 10:04	KL	XM
Total/NA	Analysis	8021B		1	2612	05/03/21 20:19	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 13:17	AJ	XM
Soluble	Leach	DI Leach			2712	05/05/21 10:42	CH	XM
Soluble	Analysis	300.0		1	2743	05/05/21 22:04	WP	XM

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

## Client Sample ID: PH03

## Lab Sample ID: 890-607-5

Date Collected: 04/28/21 11:10

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2609	05/03/21 10:04	KL	XM
Total/NA	Analysis	8021B		1	2612	05/03/21 20:40	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 13:39	AJ	XM
Soluble	Leach	DI Leach			2712	05/05/21 10:42	CH	XM
Soluble	Analysis	300.0		10	2743	05/05/21 22:09	WP	XM

## Client Sample ID: PH03A

## Lab Sample ID: 890-607-6

Date Collected: 04/28/21 11:44

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2659	05/04/21 09:33	KL	XM
Total/NA	Analysis	8021B		1	2675	05/05/21 03:52	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 14:00	AJ	XM
Soluble	Leach	DI Leach			2712	05/05/21 10:42	CH	XM
Soluble	Analysis	300.0		1	2743	05/05/21 22:25	WP	XM

## Client Sample ID: PH04

## Lab Sample ID: 890-607-7

Date Collected: 04/28/21 12:07

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2659	05/04/21 11:15	KL	XM
Total/NA	Analysis	8021B		1	2675	05/05/21 04:13	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 14:21	AJ	XM
Soluble	Leach	DI Leach			2712	05/05/21 10:42	CH	XM
Soluble	Analysis	300.0		5	2743	05/05/21 22:30	WP	XM

## Client Sample ID: PH04A

## Lab Sample ID: 890-607-8

Date Collected: 04/28/21 12:08

Matrix: Solid

Date Received: 04/30/21 13:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2659	05/04/21 11:15	KL	XM
Total/NA	Analysis	8021B		1	2675	05/05/21 04:34	KL	XM
Total/NA	Prep	8015NM Prep			2610	05/03/21 10:04	DM	XM
Total/NA	Analysis	8015B NM		1	2603	05/03/21 14:43	AJ	XM
Soluble	Leach	DI Leach			2712	05/05/21 10:42	CH	XM
Soluble	Analysis	300.0		1	2743	05/05/21 22:36	WP	XM

## Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

## Method Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## Sample Summary

Client: WSP USA Inc.  
Project/Site: State GQ Com 2

Job ID: 890-607-1  
SDG: 31402909.04

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-607-1	PH01	Solid	04/28/21 10:06	04/30/21 13:35	- 1
890-607-2	PH01A	Solid	04/28/21 10:18	04/30/21 13:35	- 4
890-607-3	PH02	Solid	04/28/21 10:35	04/30/21 13:35	- 1
890-607-4	PH02A	Solid	04/28/21 10:37	04/30/21 13:35	- 2
890-607-5	PH03	Solid	04/28/21 11:10	04/30/21 13:35	- 1
890-607-6	PH03A	Solid	04/28/21 11:44	04/30/21 13:35	- 9
890-607-7	PH04	Solid	04/28/21 12:07	04/30/21 13:35	- 1
890-607-8	PH04A	Solid	04/28/21 12:08	04/30/21 13:35	- 2



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Phoenix, AZ (480) 335-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 975-392-7550  
Hobbs, NM (575) 392-7550

## Chain of Custody


**Work Order No.:**

[www.xenco.com](http://www.xenco.com)

Page 1 of 1

Project Manager:		Katei Jennings	Bill to: (if different)	Ike Tavaraz
Company Name:		WSP USA Inc., Permian office	Company Name:	Concho Operating
Address:		3300 North A Street	Address:	
City, State ZIP:		Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849		Email:	will.mather@wsp.com, katei.jennings@wsp.com, ltavaraz@concho.com

<b>Work Order Comments</b>				
Program: <b>UST/PST</b> <input type="checkbox"/> RP <input type="checkbox"/> Growfields <input type="checkbox"/> RC <input type="checkbox"/> Perfund <input type="checkbox"/>				
State of Project:				
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>				
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: <input type="checkbox"/>				

Project Name:	State GQ Com 2	Turn Around	ANALYSIS REQUEST	Work Order Notes																													
Project Number:	31402909.04	Routine																															
P.O. Number:	Eddy	Rush:																															
Sampler's Name:	William Mather	Due Date:																															
<table border="1"> <tr> <td rowspan="5">SAMPLE RECEIPT</td> <td>Temp Blank:</td> <td>Yes</td> <td>No</td> <td>Wet Ice:</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Temperature (°C):</td> <td colspan="5">1.2/1.0 Thermometer ID</td> </tr> <tr> <td>Received Intact:</td> <td>Yes</td> <td>No</td> <td colspan="3">22ML-007</td> </tr> <tr> <td>Cooler Custody Seals:</td> <td>Yes</td> <td>No</td> <td>Correction Factor:</td> <td colspan="2">-0.2</td> </tr> <tr> <td>Sample Custody Seals:</td> <td>Yes</td> <td>No</td> <td>N/A</td> <td>Total Containers:</td> <td></td> </tr> </table>					SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No	Temperature (°C):	1.2/1.0 Thermometer ID					Received Intact:	Yes	No	22ML-007			Cooler Custody Seals:	Yes	No	Correction Factor:	-0.2		Sample Custody Seals:	Yes	No	N/A
SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:		Yes	No																										
	Temperature (°C):	1.2/1.0 Thermometer ID																															
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	Sample Custody Seals:	Yes	No	N/A	Total Containers:																												
Number of Containers																																	
PA 8015)																																	
EPA 0=8021)																																	
de (EPA 300.0)																																	
 890-607 Chain of Custody																																	
TAT starts the day received by the lab, if received by 4:30pm																																	

[illegible]

Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010	200.8 / 6020.
8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn		
TCLP / SPLP 6010: 8RCRA Sp As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		1691/245.1/7470/7471 Hg

**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions for service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>[Signature]</i>	<i>[Signature]</i>	4-20-21 1300			
3						
5						





## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-607-1

SDG Number: 31402909.04

Login Number: 607

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-607-1

SDG Number: 31402909.04

Login Number: 607

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 05/03/21 09:55 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/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 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	NAPP2110641182
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570
Contact email	JKnowlton@concho.com	Incident # (assigned by OCD)	
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

### Location of Release Source

Latitude 32.14607 Longitude -104.120778  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	State GQ Com 002H	Site Type	Flow Line
Date Release Discovered	April 5, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
H	07	25S	28E	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 13	Volume Recovered (bbls) 0
	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


The release was caused by a poly line being ran over.  
The release was on a lease road. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Incident ID	NAPP2110641182
District RP	
Facility ID	
Application ID	

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

## Initial Response

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

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input 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 <b>Brittany N. Esparza</b>  Signature:   email: <b>besparza@concho.com</b>	Title: <b>HSE Administrative Assistant</b>  Date: <b>4/16/2021</b>  Telephone: <b>(432) 221-0398</b>
<b><u>OCD Only</u></b>  Received by: <b>Ramona Marcus</b> Date: <b>5/7/2021</b>	

NAPP2110641182

## \*\*\*\*\* LIQUID SPILLS - VOLUME CALCULATIONS \*\*\*\*\*

Location of spill: State GQ State Com 002

Date of Spill: 5-Apr-2021

If the leak/spill is associated with production equipment, i.e. - wellhead, stuffing box,  
flowline, tank battery, production vessel, transfer pump, or storage tank place an "X" here: ☒

## Input Data:

If spill volumes from measurement, i.e. metering, tank volumes, etc. are known enter the volumes here: OIL: 0.0 BBL WATER: 0.0 BBL

If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes.

Total Area Calculations							Standing Liquid Calculations						
Total Surface Area	width	length		wet soil depth	oil (%)		Standing Liquid Area	width	length	liquid depth	oil (%)		
Rectangle Area #1	20 ft	155 ft	X	2.00 in	0%		Rectangle Area #1	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #2	0 ft	X	0 0	X	0.00 in	0%	Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0.00 in	0%	Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	2 in	0%	Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

okay

## production system leak - DAILY PRODUCTION DATA REQUIRED

Average Daily Production: Oil 0 BBL Water 0 BBL 0 Gas (MCFD)

Total Hydrocarbon Content in gas: 0% (percentage)

Did leak occur before the separator?: ☒ YES ☒ N/A (place an "X")

H2S Content in Produced Gas: 0 PPM

H2S Content in Tank Vapors: 0 PPM

Amount of Free Liquid Recovered: 0 BBL

okay

Percentage of Oil in Free Liquid Recovered: 0% (percentage)

Liquid holding factor \*: 0.14 gal per gal

Use the following when the spill wets the grains of the soil.

\* Sand = 0.08 gallon (gal.) liquid per gal. volume of soil.  
\* Gravelly (caliche) loam = 0.14 gal. liquid per gal. volume of soil.  
\* Sandy clay loam soil = 0.14 gal liquid per gal. volume of soil.  
\* Clay loam = 0.16 gal. liquid per gal. volume of soil.

Use the following when the liquid completely fills the pore space of the soil:

Occurs when the spill soaked soil is contained by barriers, natural (or not).  
\* Clay loam = 0.20 gal. liquid per gal. volume of soil.  
\* Gravelly (caliche) loam = 0.25 gal. liquid per gal. volume of soil.  
\* Sandy loam = 0.5 gal. liquid per gal. volume of soil.

Total Solid/Liquid Volume: 3,100 sq. ft. 517 cu. ft. cu. ft.

Total Free Liquid Volume: sq. ft. cu. ft. cu. ft.

## Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	12.9 BBL	0.0 BBL
Free Liquid:	0.0 BBL	0.0 BBL
Totals:	12.9 BBL	0.0 BBL

Total Liquid Spill Liquid: 12.9 BBL 0.00 BBL

## Recovered Volumes

Estimated oil recovered: BBL check - okay  
Estimated water recovered: BBL check - okay

## Estimated Production Volumes Lost

	H2O	OIL
Estimated Production Spilled:	0.0 BBL	0.0 BBL

## Estimated Surface Damage

Surface Area: 3,100 sq. ft.  
Surface Area: .0712 acre

## Estimated Weights, and Volumes

Saturated Soil = 57,867 lbs 517 cu. ft. 19 cu. yds.  
Total Liquid = 13 BBL 541 gallon 4,502 lbs

## Air Emission from flowline leaks:

Volume of oil spill: - BBL  
Separator gas calculated: - MCF  
Separator gas released: - MCF  
Gas released from oil: - lb  
H2S released: - lb  
Total HC gas released: - lb  
Total HC gas released: - MCF

## Air Emission of Reporting Requirements:

	New Mexico	Texas
HC gas release reportable?	NO	NO
H2S release reportable?	NO	NO



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 24338

CONDITIONS OF APPROVAL

Operator:	COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	OGRID:	229137	Action Number:	24338	Action Type:	C-141
OCD Reviewer	Condition								
marcus	None								

Incident ID	NAPP2110641182
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?	<50 (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 <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input 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.

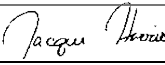
### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ 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 ½-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.

Incident ID	NAPP2110641182
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: Jacqui Harris Title: Environmental Coordinator  
Signature:  Date: 07/06/2021  
email: Jacqui.Harris@conocophillips.com Telephone: 575-689-3114

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAPP2110641182
District RP	
Facility ID	
Application ID	

## Remediation Plan

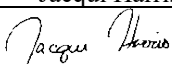
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ 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: Jacqui Harris Title: Environmental Coordinator  
Signature:  Date: 07/06/2021  
email: Jacqui.Harris@conocophillips.com Telephone: 575-689-3114

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	NAPP2110641182
District RP	
Facility ID	
Application ID	

## Remediation Plan

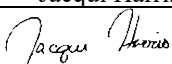
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ 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: Jacqui Harris Title: Environmental Coordinator  
Signature:  Date: 07/06/2021  
email: Jacqui.Harris@conocophillips.com Telephone: 575-689-3114

**OCD Only**

Received by: Robert Hamlet Date: 10/4/2021

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

Signature:  Date: 10/4/2021

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 36178

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 36178
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Workplan/Remediation Plan is approved with the following conditions: Sidewall/floor samples need to comply with the strictest closure criteria limits 600 mg/kg for Chlorides and 100 mg/kg TPH on the road and adjacent pasture area. The variance for 500 ft2 confirmation floor samples is approved. Please collect confirmation sidewall samples, representing no more than 200 ft2. If sidewall depth is less than 1.5 feet, please make sure sample is taken on the edge of the excavation representing no more than 200 linear feet.	10/4/2021