WSP USA
3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

January 5, 2022

District I
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88210

RE: Closure Request
White Falcon 16 State 001H
Incident Number NAPP2130853724
Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of COG Operating, LLC (COG), presents the following Closure Request detailing site assessment and soil sampling activities at the White Falcon 16 State 001H (Site) in Unit D, Section 16, Township 25 South, Range 35 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a crude oil flare fire at the Site. Based on field observations, site assessment activities, and soil sample analytical results, COG is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2130853724.

RELEASE BACKGROUND

On October 21, 2021, the circulating pump was not turned off before work was performed, causing the heater to fill up and release approximately 0.06 barrels (bbls) of crude oil through the flare, which resulted in a small fire. The fire consumed the released crude oil and extinguished itself. There were no standing fluids to recover. A Release Notification Form C-141 (Form C-141) was submitted on November 4, 2021 and the release was assigned Incident Number NAPP2130853724.

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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320721103221201, located approximately 5,307 feet southeast of the Site. The groundwater well has a reported depth to groundwater of 167 feet bgs and a total depth of 275 feet bgs. Ground surface elevation at the groundwater well location is 3,231 feet amsl, which is approximately 29

feet lower in elevation than the Site. All wells used for depths to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a riverine, located approximately 1.29 miles northeast 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 underlain by unstable geology (low potential karst designation area). 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On November 22, 2021, WSP personnel visited the Site to evaluate the flare fire release extent based on information provided on the Form C-141, visual observations, and information provided by COG personnel. No visual indications of the flare fire release were identified. Four assessment soil samples (SS01 through SS04) were collected around the flare stack from a depth of 0.5 feet bgs to assess for the presence or absence of impacted soil. The soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the site visit and a photographic log is included in Attachment 2.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United

States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 through SS04, collected near the flare stack, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. In addition, all assessment soil samples were compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 3.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the flare fire release event at the Site. Laboratory analytical results for soil samples SS01 through SS04, collected around the flare, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. In addition, all soil samples were compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified since the fire consumed the small volume of liquids released. As such, COG respectfully requests NFA for Incident Number NAPP2130853724. The final Form C-141 is included in Attachment 4.

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

Sincerely,

WSP USA Inc.

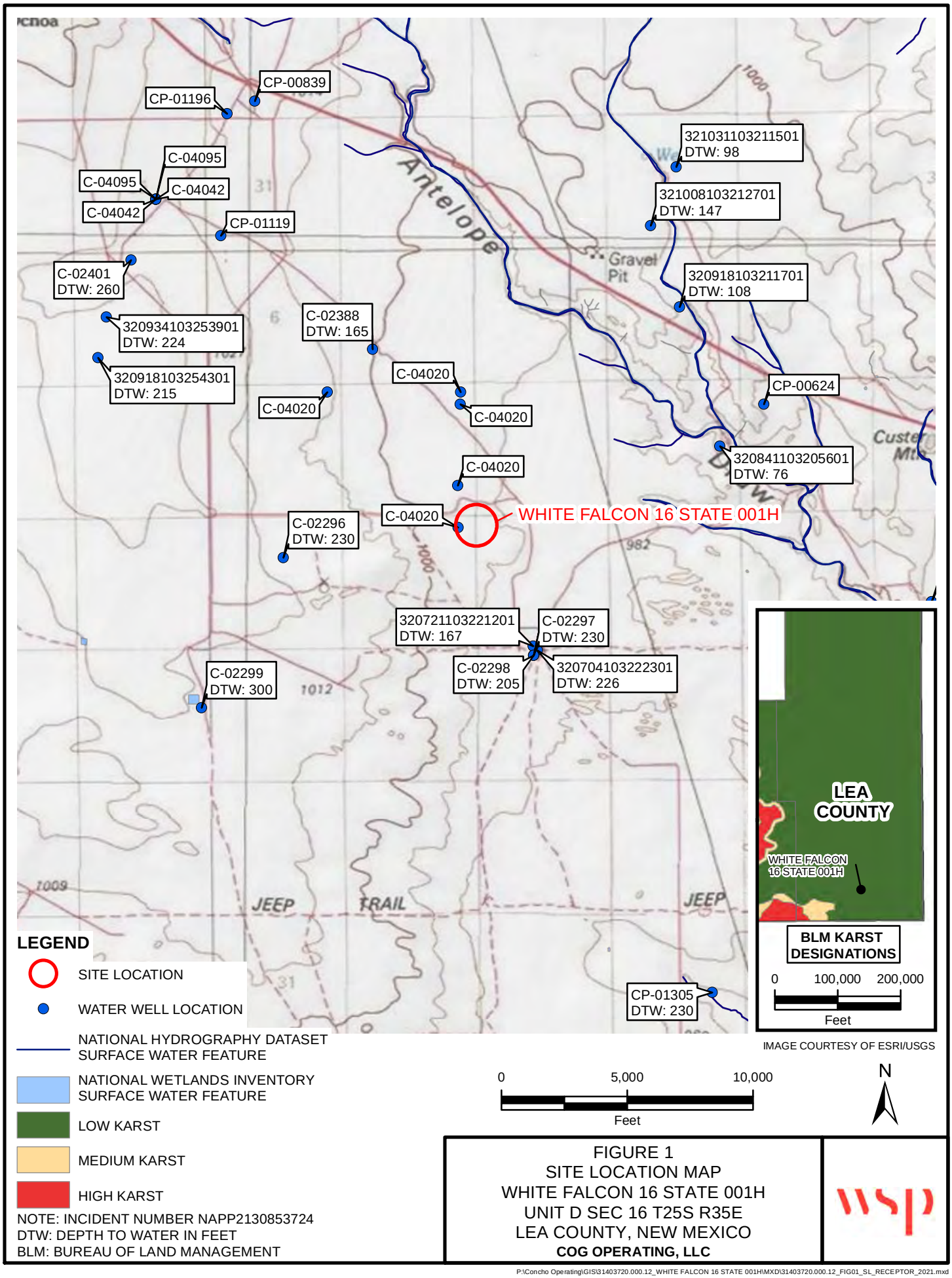
Kalei Jennings
Consultant, Environmental Scientist

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

cc: Kelsy Waggaman, COG Operating, LLC
New Mexico State Land Office

Attachments:

FIGURES



LEGEND

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

NOTE: INCIDENT NUMBER NAPP2130853724
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
WHITE FALCON 16 STATE 001H
UNIT D SEC 16 T25S R35E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31403720.000.12_WHITE FALCON 16 STATE 001H\MXD\31403720.000.12_FIG01_SL_RECEPTOR_2021.mxd

LEGEND

- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLARE STACK
- ELECTRIC LINE
- GAS LINE
- FLARE STACK PERIMETER

NOTE: INCIDENT NUMBER NAPP2130853724
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 100 200
Feet

N

FIGURE 2
SOIL SAMPLE LOCATIONS
WHITE FALCON 16 STATE 001H
UNIT D SEC 16 T25S R35E
LEA COUNTY, NEW MEXICO
COG OPERATING, LLC

P:\Concho Operating\GIS\31403720.000.12_WHITE FALCON 16 STATE 001H\MXD\31403720.000.12_FIG02_SS_LOC_2021.mxd

TABLES

Table 1

Soil Analytical Results
White Falcon 16 State 001H
Incident Number NAPP2130853724
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (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	1,000	2,500	20,000
Assessment Soil Samples										
SS01	11/22/2021	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	166
SS02	11/22/2021	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	26.1
SS03	11/22/2021	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	27.7
SS04	11/22/2021	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	23.7

Notes:

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 - oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - 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 RECORD

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access) Data Category: Site Information Geographic Area: United States GO

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

USGS 320721103221201 25S.35E.21.122212

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 32°07'23", Longitude 103°22'23" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 275 feet
Land surface altitude: 3,228.00 feet above NGVD29.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1981-04-01	1996-02-29	4
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

---

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Click to hideNews Bulletins

- Explore the *NEW* USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320721103221201

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320721103221201 25S.35E.21.122212

Lea County, New Mexico
Latitude 32°07'23", Longitude 103°22'23" NAD27
Land-surface elevation 3,228.00 feet above NGVD29
The depth of the well is 275 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

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
1981-04-01		D	62610		3055.14	NGVD29	1	Z		
1981-04-01		D	62611		3056.64	NAVD88	1	Z		
1981-04-01		D	72019	172.86			1	Z		
1986-03-18		D	62610		3069.39	NGVD29	1	Z		
1986-03-18		D	62611		3070.89	NAVD88	1	Z		
1986-03-18		D	72019	158.61			1	Z		
1991-06-06		D	62610		3060.90	NGVD29	1	Z		
1991-06-06		D	62611		3062.40	NAVD88	1	Z		
1991-06-06		D	72019	167.10			1	Z		
1996-02-29		D	62610		3061.29	NGVD29	1	S		
1996-02-29		D	62611		3062.79	NAVD88	1	S		
1996-02-29		D	72019	166.71			1	S		

Explanation

Section	Code	Description

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	S	Steel-tape measurement.
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.

ATTACHMENT 2: PHOTOGRAPHIC LOG

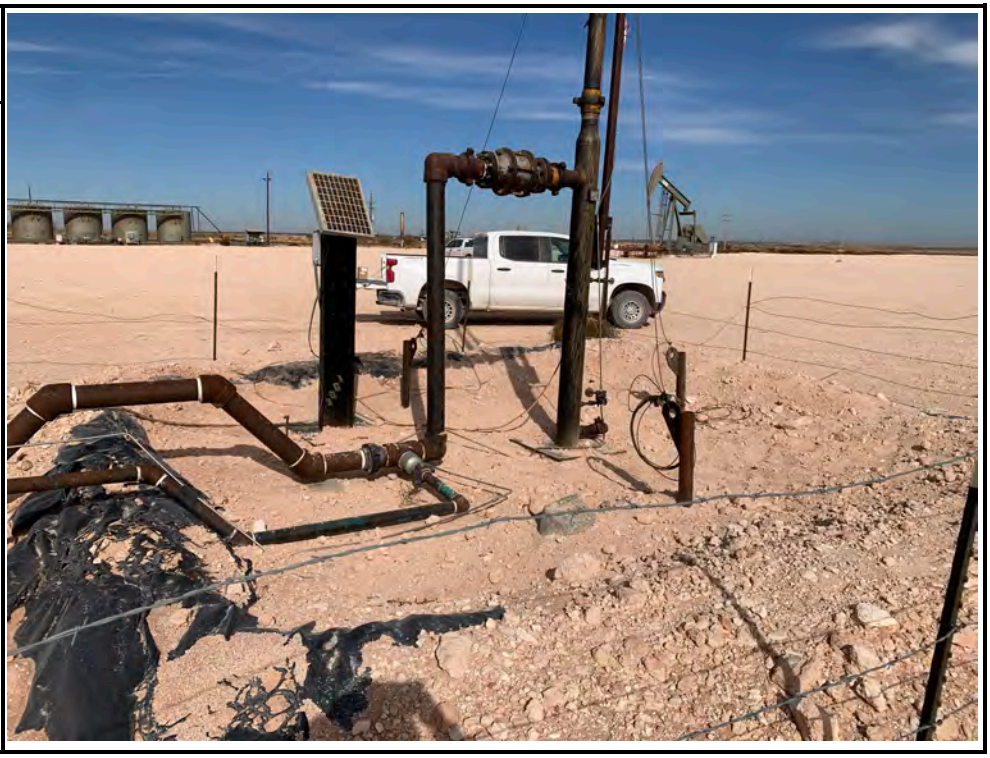
PHOTOGRAPHIC LOG		
COG Operating, LLC	White Falcon 16 State 001H Lea County, New Mexico	NAPP2130853724

Photo No.	Date
1	November 22, 2021

View of release area during the initial site visit.

Photo No.	Date
2	November 22, 2021

View of release area during the initial site visit.



ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1616-1
Laboratory Sample Delivery Group: 31403720.000 Task 12.02
Client Project/Site: White Falcon 16 State 001H

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
12/8/2021 3:33:16 PM

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

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: White Falcon 16 State 001H

Laboratory Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Table of Contents

Definitions/Glossary

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Qualifiers

GC VOA

Qualifier	Qualifier Description
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
F1	MS and/or MSD recovery exceeds control limits.
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: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Job ID: 890-1616-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1616-1

Receipt
The samples were received on 11/22/2021 3:30 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 5.2°C

GC VOA
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
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-13887 and analytical batch 880-13889 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Client Sample ID: SS01

Lab Sample ID: 890-1616-1
Matrix: Solid
Date Collected: 11/22/21 12:33
Date Received: 11/22/21 15:30
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:37	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:37	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:37	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		11/23/21 16:45	11/24/21 17:37	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:37	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		11/23/21 16:45	11/24/21 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/23/21 16:45*	*11/24/21 17:37*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*11/23/21 16:45*	*11/24/21 17:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			11/30/21 15:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			12/01/21 20:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/25/21 03:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/25/21 03:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/25/21 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*11/24/21 12:36*	*11/25/21 03:51*	*1*
o-Terphenyl	*128*		*70 - 130*	*11/24/21 12:36*	*11/25/21 03:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**166**		4.99		mg/Kg			12/08/21 07:45	1

Client Sample ID: SS02

Lab Sample ID: 890-1616-2
Matrix: Solid
Date Collected: 11/22/21 12:36
Date Received: 11/22/21 15:30
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:58	1
Toluene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:58	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:58	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		11/23/21 16:45	11/24/21 17:58	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		11/23/21 16:45	11/24/21 17:58	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		11/23/21 16:45	11/24/21 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*11/23/21 16:45*	*11/24/21 17:58*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Client Sample ID: SS02

Lab Sample ID: 890-1616-2
Matrix: Solid
Date Collected: 11/22/21 12:36
Date Received: 11/22/21 15:30
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*11/23/21 16:45*	*11/24/21 17:58*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/30/21 15:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/01/21 20:09	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/24/21 12:36	11/25/21 04:14	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/24/21 12:36	11/25/21 04:14	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/24/21 12:36	11/25/21 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*108*		*70 - 130*	*11/24/21 12:36*	*11/25/21 04:14*	*1*
o-Terphenyl	*117*		*70 - 130*	*11/24/21 12:36*	*11/25/21 04:14*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26.1**		5.04	mg/Kg			12/08/21 07:52	1

Client Sample ID: SS03

Lab Sample ID: 890-1616-3
Matrix: Solid
Date Collected: 11/22/21 12:37
Date Received: 11/22/21 15:30
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/23/21 16:45	11/24/21 18:18	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/23/21 16:45	11/24/21 18:18	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/23/21 16:45	11/24/21 18:18	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		11/23/21 16:45	11/24/21 18:18	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/23/21 16:45	11/24/21 18:18	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		11/23/21 16:45	11/24/21 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*11/23/21 16:45*	*11/24/21 18:18*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*11/23/21 16:45*	*11/24/21 18:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			11/30/21 15:30	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/01/21 20:09	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Client Sample ID: SS03

Lab Sample ID: 890-1616-3
Matrix: Solid
Date Collected: 11/22/21 12:37
Date Received: 11/22/21 15:30
Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/25/21 04:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/25/21 04:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/25/21 04:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*11/24/21 12:36*	*11/25/21 04:36*	*1*
o-Terphenyl	*120*		*70 - 130*	*11/24/21 12:36*	*11/25/21 04:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**27.7**		5.00		mg/Kg			12/08/21 07:59	1

Client Sample ID: SS04

Lab Sample ID: 890-1616-4
Matrix: Solid
Date Collected: 11/22/21 12:39
Date Received: 11/22/21 15:30
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 18:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 18:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 18:38	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/23/21 16:45	11/24/21 18:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 18:38	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/23/21 16:45	11/24/21 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*11/23/21 16:45*	*11/24/21 18:38*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*11/23/21 16:45*	*11/24/21 18:38*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			11/30/21 15:30	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			12/01/21 20:09	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		11/24/21 12:36	11/25/21 05:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		11/24/21 12:36	11/25/21 05:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/24/21 12:36	11/25/21 05:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*129*		*70 - 130*	*11/24/21 12:36*	*11/25/21 05:21*	*1*
o-Terphenyl	*140*	*S1+*	*70 - 130*	*11/24/21 12:36*	*11/25/21 05:21*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Client Sample ID: SS04

Date Collected: 11/22/21 12:39
Date Received: 11/22/21 15:30
Sample Depth: 0.5

Lab Sample ID: 890-1616-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.7		5.00		mg/Kg			12/08/21 08:05	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1616-1	SS01	120	110
890-1616-2	SS02	130	105
890-1616-3	SS03	101	104
890-1616-4	SS04	112	111
890-1619-A-21-E MSD	Matrix Spike Duplicate	106	109
890-1619-A-21-I MS	Matrix Spike	107	106
LCS 880-13016/1-A	Lab Control Sample	106	105
LCSD 880-13016/2-A	Lab Control Sample Dup	107	104
MB 880-13016/5-A	Method Blank	113	102

Surrogate Legend

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1613-A-1-F MS	Matrix Spike	109	106
890-1613-A-1-G MSD	Matrix Spike Duplicate	110	105
890-1616-1	SS01	113	128
890-1616-2	SS02	108	117
890-1616-3	SS03	111	120
890-1616-4	SS04	129	140 S1+
LCS 880-13223/2-A	Lab Control Sample	117	128
LCSD 880-13223/3-A	Lab Control Sample Dup	110	122
MB 880-13223/1-A	Method Blank	151 S1+	169 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13016/5-A
Matrix: Solid
Analysis Batch: 13108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13016

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 10:46	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 10:46	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 10:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/23/21 16:45	11/24/21 10:46	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/23/21 16:45	11/24/21 10:46	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/23/21 16:45	11/24/21 10:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/23/21 16:45*	*11/24/21 10:46*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*11/23/21 16:45*	*11/24/21 10:46*	*1*

Lab Sample ID: LCS 880-13016/1-A
Matrix: Solid
Analysis Batch: 13108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13016

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09040		mg/Kg		90	70 - 130		
Toluene			0.100	0.08336		mg/Kg		83	70 - 130		
Ethylbenzene			0.100	0.08400		mg/Kg		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1755		mg/Kg		88	70 - 130		
o-Xylene			0.100	0.08709		mg/Kg		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-13016/2-A
Matrix: Solid
Analysis Batch: 13108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13016

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08879		mg/Kg		89	70 - 130	2	35
Toluene			0.100	0.08362		mg/Kg		84	70 - 130	0	35
Ethylbenzene			0.100	0.08377		mg/Kg		84	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.1743		mg/Kg		87	70 - 130	1	35
o-Xylene			0.100	0.08797		mg/Kg		88	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-1619-A-21-E MSD
Matrix: Solid
Analysis Batch: 13108

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 13016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0996	0.08556		mg/Kg		86	70 - 130	9	35
Toluene	<0.00199	U	0.0996	0.07906		mg/Kg		79	70 - 130	9	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

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

Lab Sample ID: 890-1619-A-21-E MSD
Matrix: Solid
Analysis Batch: 13108

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 13016

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00199	U	0.0996	0.08020		mg/Kg		81	70 - 130	7	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.1678		mg/Kg		84	70 - 130	8	35
o-Xylene	<0.00199	U	0.0996	0.08340		mg/Kg		83	70 - 130	8	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-1619-A-21-I MS
Matrix: Solid
Analysis Batch: 13108

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 13016

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.0998	0.09349		mg/Kg		94	70 - 130
Toluene	<0.00199	U	0.0998	0.08636		mg/Kg		86	70 - 130
Ethylbenzene	<0.00199	U	0.0998	0.08643		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1818		mg/Kg		91	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09019		mg/Kg		90	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

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

Lab Sample ID: MB 880-13223/1-A
Matrix: Solid
Analysis Batch: 13220

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 13223

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/24/21 23:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/24/21 23:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/24/21 12:36	11/24/21 23:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*151*	*S1+*	*70 - 130*	*11/24/21 12:36*	*11/24/21 23:28*	*1*
o-Terphenyl	*169*	*S1+*	*70 - 130*	*11/24/21 12:36*	*11/24/21 23:28*	*1*

Lab Sample ID: LCS 880-13223/2-A
Matrix: Solid
Analysis Batch: 13220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13223

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	923.3		mg/Kg		92	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1252		mg/Kg		125	70 - 130

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

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

Lab Sample ID: LCS 880-13223/2-A
Matrix: Solid
Analysis Batch: 13220

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 13223

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	117		70 - 130
o-Terphenyl	128		70 - 130

Lab Sample ID: LCSD 880-13223/3-A
Matrix: Solid
Analysis Batch: 13220

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 13223

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	870.1		mg/Kg		87	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	1240		mg/Kg		124	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 890-1613-A-1-F MS
Matrix: Solid
Analysis Batch: 13220

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 13223

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1197		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1168		mg/Kg		117	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	106		70 - 130

Lab Sample ID: 890-1613-A-1-G MSD
Matrix: Solid
Analysis Batch: 13220

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 13223

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1217		mg/Kg		122	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1172		mg/Kg		117	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13887/1-A
Matrix: Solid
Analysis Batch: 13889

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			12/08/21 04:52	1

Lab Sample ID: LCS 880-13887/2-A
Matrix: Solid
Analysis Batch: 13889

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	271.4		mg/Kg		109	90 - 110		

Lab Sample ID: LCSD 880-13887/3-A
Matrix: Solid
Analysis Batch: 13889

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	273.2		mg/Kg		109	90 - 110	1	20

Lab Sample ID: 880-8660-A-8-G MS
Matrix: Solid
Analysis Batch: 13889

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	14.4	F1	250	387.9	F1	mg/Kg		149	90 - 110		

Lab Sample ID: 880-8660-A-8-H MSD
Matrix: Solid
Analysis Batch: 13889

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	14.4	F1	250	392.9	F1	mg/Kg		151	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

GC VOA

Prep Batch: 13016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Total/NA	Solid	5035	
890-1616-2	SS02	Total/NA	Solid	5035	
890-1616-3	SS03	Total/NA	Solid	5035	
890-1616-4	SS04	Total/NA	Solid	5035	
MB 880-13016/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13016/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13016/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1619-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
890-1619-A-21-I MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 13108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Total/NA	Solid	8021B	13016
890-1616-2	SS02	Total/NA	Solid	8021B	13016
890-1616-3	SS03	Total/NA	Solid	8021B	13016
890-1616-4	SS04	Total/NA	Solid	8021B	13016
MB 880-13016/5-A	Method Blank	Total/NA	Solid	8021B	13016
LCS 880-13016/1-A	Lab Control Sample	Total/NA	Solid	8021B	13016
LCSD 880-13016/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13016
890-1619-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13016
890-1619-A-21-I MS	Matrix Spike	Total/NA	Solid	8021B	13016

Analysis Batch: 13453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Total/NA	Solid	Total BTEX	
890-1616-2	SS02	Total/NA	Solid	Total BTEX	
890-1616-3	SS03	Total/NA	Solid	Total BTEX	
890-1616-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 13220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Total/NA	Solid	8015B NM	13223
890-1616-2	SS02	Total/NA	Solid	8015B NM	13223
890-1616-3	SS03	Total/NA	Solid	8015B NM	13223
890-1616-4	SS04	Total/NA	Solid	8015B NM	13223
MB 880-13223/1-A	Method Blank	Total/NA	Solid	8015B NM	13223
LCS 880-13223/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13223
LCSD 880-13223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13223
890-1613-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	13223
890-1613-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13223

Prep Batch: 13223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Total/NA	Solid	8015NM Prep	
890-1616-2	SS02	Total/NA	Solid	8015NM Prep	
890-1616-3	SS03	Total/NA	Solid	8015NM Prep	
890-1616-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-13223/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13223/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1616-1
Project/Site: White Falcon 16 State 001H SDG: 31403720.000 Task 12.02

GC Semi VOA (Continued)

Prep Batch: 13223 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-13223/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1613-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1613-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 13711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Total/NA	Solid	8015 NM	
890-1616-2	SS02	Total/NA	Solid	8015 NM	
890-1616-3	SS03	Total/NA	Solid	8015 NM	
890-1616-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 13887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Soluble	Solid	DI Leach	
890-1616-2	SS02	Soluble	Solid	DI Leach	
890-1616-3	SS03	Soluble	Solid	DI Leach	
890-1616-4	SS04	Soluble	Solid	DI Leach	
MB 880-13887/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13887/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13887/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-8660-A-8-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-8660-A-8-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 13889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1616-1	SS01	Soluble	Solid	300.0	13887
890-1616-2	SS02	Soluble	Solid	300.0	13887
890-1616-3	SS03	Soluble	Solid	300.0	13887
890-1616-4	SS04	Soluble	Solid	300.0	13887
MB 880-13887/1-A	Method Blank	Soluble	Solid	300.0	13887
LCS 880-13887/2-A	Lab Control Sample	Soluble	Solid	300.0	13887
LCSD 880-13887/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13887
880-8660-A-8-G MS	Matrix Spike	Soluble	Solid	300.0	13887
880-8660-A-8-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	13887

Lab Chronicle

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Client Sample ID: SS01
Date Collected: 11/22/21 12:33
Date Received: 11/22/21 15:30

Lab Sample ID: 890-1616-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	13016	11/23/21 16:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13108	11/24/21 17:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13453	11/30/21 15:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13223	11/24/21 12:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13220	11/25/21 03:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	13887	12/03/21 15:09	CH	XEN MID
Soluble	Analysis	300.0		1			13889	12/08/21 07:45	CH	XEN MID

Client Sample ID: SS02
Date Collected: 11/22/21 12:36
Date Received: 11/22/21 15:30

Lab Sample ID: 890-1616-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	13016	11/23/21 16:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13108	11/24/21 17:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13453	11/30/21 15:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13223	11/24/21 12:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13220	11/25/21 04:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	13887	12/03/21 15:09	CH	XEN MID
Soluble	Analysis	300.0		1			13889	12/08/21 07:52	CH	XEN MID

Client Sample ID: SS03
Date Collected: 11/22/21 12:37
Date Received: 11/22/21 15:30

Lab Sample ID: 890-1616-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	13016	11/23/21 16:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13108	11/24/21 18:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13453	11/30/21 15:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13223	11/24/21 12:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13220	11/25/21 04:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13887	12/03/21 15:09	CH	XEN MID
Soluble	Analysis	300.0		1			13889	12/08/21 07:59	CH	XEN MID

Client Sample ID: SS04
Date Collected: 11/22/21 12:39
Date Received: 11/22/21 15:30

Lab Sample ID: 890-1616-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	13016	11/23/21 16:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13108	11/24/21 18:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13453	11/30/21 15:30	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Client Sample ID: SS04
Date Collected: 11/22/21 12:39
Date Received: 11/22/21 15:30

Lab Sample ID: 890-1616-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			13711	12/01/21 20:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13223	11/24/21 12:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13220	11/25/21 05:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13887	12/03/21 15:09	CH	XEN MID
Soluble	Analysis	300.0		1			13889	12/08/21 08:05	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Job ID: 890-1616-1
Project/Site: White Falcon 16 State 001H
SDG: 31403720.000 Task 12.02

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	T104704400-21-22	06-30-22

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
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

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

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.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: White Falcon 16 State 001H

Job ID: 890-1616-1
SDG: 31403720.000 Task 12.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1616-1	SS01	Solid	11/22/21 12:33	11/22/21 15:30	0.5
890-1616-2	SS02	Solid	11/22/21 12:36	11/22/21 15:30	0.5
890-1616-3	SS03	Solid	11/22/21 12:37	11/22/21 15:30	0.5
890-1616-4	SS04	Solid	11/22/21 12:39	11/22/21 15:30	0.5

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

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)

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Bldg 1, Unit 222	Address:	3300 North A Street Bldg 1, Unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	kalei.jennings@wsp.com, payton.benner@wsp.com

Work Order Comments

Program: UST/PST ☐RP ☐rownfields ☐RC ☐perfund ☐
State of Project:
Reporting:Level II ☐evel III ☐T/UST ☐RP L☐vel IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	White Falcon 16 State 001H	Turn Around	
Project Number:	31403720.000 Task 12.02	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	5.4 / 5.2	Thermometer ID	IR#M-007	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.7	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

890-1616 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Work Order Notes / Sample Comments
SS01	S	11/22/21	12;33	0.5'	1	X	X	X	Discrete
SS02	S	11/22/21	12:36	0.5'	1	X	X	X	Discrete
SS03	S	11/22/21	12:37	0.5'	1	X	X	X	
SS04	S	11/22/21	12:39	0.5'	1	X	X	X	

Work Order Notes: TAT starts the day recevied by the lab, if received by 4:30pm

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 Tl 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 Tl U **1631 / 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 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
P Benner	N. Oen	11-22-21 / 3:30	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1616-1
SDG Number: 31403720.000 Task 12.02

Login Number: 1616
List Number: 1
Creator: Olivas, Nathaniel

List Source: Eurofins Xenco, 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: 890-1616-1
SDG Number: 31403720.000 Task 12.02

Login Number: 1616
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 11/24/21 09:41 AM

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.	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").	True	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1419-1
SDG Number: 31402909.12

Login Number: 1419
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, 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: 890-1419-1
SDG Number: 31402909.12

Login Number: 1419
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 10/15/21 12:05 PM

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	2.6/2.7
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.	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	

ATTACHMENT 4: FINAL C-141

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	NAPP2130853724
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688 - 9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2130853724
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.13647 Longitude -103.38071

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	White Falcon 16 State 001H	Site Type	Tank Battery
Date Release Discovered	October 21, 2021	API# *(if applicable)*	30-025-42757

Unit Letter	Section	Township	Range	County
D	16	25S	35E	Lea

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)

■ Crude Oil	Volume Released (bbls) 0.06	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a circulating pump was not turned off before work was performed causing heater to fill up and creating a oil spill out of the flare causing a flare fire.
No fluid was recovered due to the fire burning off and standing fluid. The release resulted in a flare fire on the pad.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2130853724
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The release involved a fire.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notice was given by Kelsy Waggaman via e-mail November 2, 2021 at 3:51 pm to mailto: ocd.enviro@state.nm.us.

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 11/4/2021

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus Date: 11/8/2021

L48 Spill Volume Estimate Form

NAPP2130853724

Facility Name & Number:	White Falcon 16 State 1H
Asset Area:	Delaware basin east
Release Discovery Date & Time:	10/20/2021 @5PM
Release Type:	Oil
Provide any known details about the event:	Oil Spill out of the flare

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated *Pool* Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	4.0	4.0	0.25	1	16.000	0.021	0.059	0.001	0.059			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
								Total Volume Release:	0.059			

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

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 60343
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	11/8/2021

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2130853724
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2130853724
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: Kelsy Waggaman Title: Environmental Engineer

Signature: Date: 01/04/2022

email: Kelsy.Waggaman@conocophillips.com Telephone: (432)-688-9057

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2130853724
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kelsy Waggaman Title: Environmental Engineer

Signature: Date: 01/04/2022

email: kelsy.waggaman@conocophillips.com Telephone: (432) 668-9057

OCD Only

Received by: Chad Hensley Date: 02/08/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 02/08/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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 73747

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 73747
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	2/8/2022