| Location: | PLU 29 Big Sinks West CTB | | | |
|------------------------|----------------------------|---------|---------|--|
| Spill Date: | 9/7/2023 | | | |
| | Area 1 | | | |
| Approximate A | rea = | 2917.10 | sq. ft. | |
| Average Satura | tion (or depth) of spill = | 2.00 | inches | |
| Average Porosi | ty Factor = | 0.15 | | |
| | VOLUME OF LEAK | | | |
| Total Crude Oil | = | 0.00 | bbls | |
| Total Produced | Water = | 12.99 | bbls | |
| | TOTAL VOLUME OF LEAK | | | |
| Total Crude Oil | = | 0.00 | bbls | |
| Total Produced | Water = | 12.99 | bbls | |
| TOTAL VOLUME RECOVERED | | | | |
| Total Crude Oil | = | 0.00 | bbls | |
| Total Produced | Water = | 0.00 | bbls | |

ATTACHMENT 5

| | ne: PLU 29 Big Sinks West CTB | | |
|---------|---|---|-----------------------------------|
| | rdinates: 32.104485, -103.801960 | X: 613036 | Y: 3552645 |
| ite Spe | cific Conditions | Value | Unit |
| 1 | Depth to Groundwater | <50 | feet |
| 2 | Within 300 feet of any continuously flowing watercourse or any other significant watercourse | 4,121 | feet |
| 3 | Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark) | 12,657 | feet |
| 4 | Within 300 feet from an occupied residence, school, hospital, institution or church | 61,108 | feet |
| 5 | i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or | 6,935 | feet |
| | ii) Within 1000 feet of any fresh water well or spring | 6,935 | feet |
| 6 | Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves | No | (Y/N) |
| 7 | Within 300 feet of a wetland | 7,255 | feet |
| 0 | Within the area overlying a subsurface mine | No | (Y/N) |
| 8 | Distance to nearest subsurface mine | 73,190 | feet |
| 9 | Within an unstable area (Karst Map) | Medium 3,444 feet from High Karst | Critical High Medium Low |
| 10 | Within a 100-year Floodplain | No | year |
| 10 | Distance to 100-year Floodplain | 4,455 | feet |
| 11 | Soil Type | Gravelly fine sandy | loam, silty clay loam |
| 12 | Ecological Classification | Shallow sand | dy, Bottomland |
| 13 | Geology | Eolian and pie | edmont deposits |
| | NMAC 19.15.29.12 E (Table 1) Closure Criteria | <50' | <50' 51-100' >100' |





Driller License:

New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng NA C 04624 POD1

 \mathbf{X}

25S 31E 30

611501 3552305

WEST TEXAS WATER WELL SERVICE

Driller Name: RUSSELL SOUTHERLAND

1184

Drill Start Date: 06/22/2022 **Drill Finish Date:** 06/22/2022 Plug Date: Log File Date: 07/25/2022 **PCW Rcv Date:** Source:

Driller Company:

Pump Type: Pipe Discharge Size: Estimated Yield: 0 GPM **Casing Size: Depth Well:** 120 feet Depth Water: 0 feet

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.

12/9/23 6:43 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 04624

Subbasin: CUB **Cross Reference:**

Primary Purpose:

MONITORING WELL MON

Primary Status: PMT PERMIT

Total Acres: Subfile: Header: -

Total Diversion: Cause/Case: 0

> XTO ENERGY Agent: Contact: ADRIAN BAKER Owner: ENSOLUM LLC KALEI JENNINGS **Contact:**

Documents on File

From/ Status

Transaction Desc. To **Diversion Consumptive** Acres

2022-05-23

PMT APR C 04624 POD1

0 0

Current Points of Diversion

(NAD83 UTM in meters)

Q **POD Number** 64Q16Q4Sec Tws Rng Well Tag Source

Т

Other Location Desc

C 04624 POD1 1 30 25S 31E 611501 3552305

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12/9/23 6:44 AM WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Transaction Summary

EXPL Permit To Explore

Transaction Number: 726169 Transaction Desc: C 04624 POD1 File Date: 05/20/2022

Primary Status: PMT Permit
Secondary Status: APR Approved

Person Assigned: ******

Agent: XTO ENERGY
Contact: ADRIAN BAKER
Applicant: ENSOLUM LLC
Contact: KALEI JENNINGS

| 17 | 4~ |
|----|--------|
| | |

| get images | Date 05/20/2022 | Type APP | Description Application Received | Comment * | Processed By |
|---------------|------------------------|-------------|---|------------------|--------------|
| get images | 05/20/2022 | TEC | Technical Report | *PLGN PLN OPS C- | ***** |
| | 05/23/2022 | FTN | Finalize non-published Trans. | | ***** |
| | 06/16/2022 | QAT | Quality Assurance Completed | SQ2 | ***** |
| | 06/23/2022 | QAT | Quality Assurance Completed | IMAGE/WELL | ***** |
| | 06/23/2022 | QAT | Quality Assurance Completed | IMAGE/PLUGGING | ***** |
| get images | 07/25/2022 | LOG | Well Log Received | * | ***** |
| | 07/28/2022 | DRY | Dry well log received | | ***** |
| | 09/23/2022 | QAT | Quality Assurance Completed | IMAGE-LOG | ***** |

Water Right Information

| WR File Nbr | Acres | Diversion | Consumptive Purpose of Use |
|----------------------|-------|-----------|----------------------------|
| C 04624 | 0 | 0 | MON MONITORING WELL |
| **Point of Diversion | | | |
| C 04624 POD1 | | 611501 | 3552305 |

Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's

- responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.
- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Action of the State Engineer

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

** See Image For Any Additional Conditions of Approval **

 Approval Code:
 A - Approved

 Action Date:
 05/23/2022

 Log Due Date:
 05/23/2023

State Engineer: Mike A. Hamman, P.

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.

12/9/23 6:44 AM TRANSACTION SUMMARY

PAGE 1 OF 2



| N | OSE POD NO. (W | | .) | | WELL TAG ID NO | D. | | OSE FILE NO(| S). | | | |
|--------------------|---------------------------|------------------|--|----------------------------------|--|--------------------------|------------------------------------|------------------------------------|--|-------------------------|--------------|---------|
| OLLI | WELL OWNER | | | | | | | PHONE (OPTIONAL) | | | | |
| OC | XTO ENERGY INC | | | | | | | 432-236-380 | 08 | | | |
| AND WELL LOCATION | WELL OWNER I | | | | | | | CITY MIDLAND | | STATE TX | 79707 | ZIP |
| | WELL LOCATION | LAT | DE | GREES 32 | MINUTES 6 | SECOND 5.66 | | * ACCURACY | REQUIRED: ONE TEN | NTH OF A S | ECOND | |
| GENERAL | (FROM GPS) | LON | NGITUDE | -103 | 49 | 5.79 | W | * DATUM REC | QUIRED: WGS 84 | | | |
| 1. GE | | | IG WELL LOCATION TO UNIT 30 BS # 1031 | | RESS AND COMMO | N LANDMAF | KS – PL | SS (SECTION, TO | WNSHJIP, RANGE) W | HERE AVAI | LABLE | |
| | LICENSE NO. WD-118 | 4 | NAME OF LICENSED | | ELL SOUTHER | LAND | | | NAME OF WELL DE WEST TEXA | | | RVICE |
| | DRILLING STAR 06/22/22 | | DRILLING ENDED 06/22/22 | DEPTH OF CO | MPLETED WELL (F | FT) I | BORE HO | LE DEPTH (FT) | DEPTH WATER FIR | RST ENCOU | NTERED (FT) | |
| N | COMPLETED W | ELL IS: | ARTESIAN | DRY HO | LE SHALLO | OW (UNCON | FINED) | | STATIC WATER LEVEL IN COMPLETED WELL N/A | | | LL (FT) |
| ATIC | DRILLING FLUI | D: | ✓ AIR | ☐ MUD | ADDITIV | VES – SPECII | Y: | | | | | |
|)RM | DRILLING MET | DRILLING METHOD: | | | | | | | | | | |
| CASING INFORMATION | FROM TO DIAM | | BORE HOLE DIAM (inches) | (include each casing string, and | | ASING NECTION TYPE | CASING INSIDE DIAM. (inches) | THIC | NG WALL CKNESS nches) | SLOT SIZE (inches | | |
| NG & CA | | | (44.44) | | CASING IN HOL | | (add coup | ling diameter) | () | | | |
| 2. DRILLING & | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | DEPTH (fee | t bgl) | BORE HOLE | LI | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | | AND | AMOUNT METHOD (cubic feet) PLACEME | | D OF | | |
| ERIAL | FROM | ТО | DIAM. (inches) | | | | | | | | | |
| ANNULAR MATERIAL | | | | | N/A | | 03E 011 VUL | 25 202 | 2 mg :54 | | | |
| 3. | OSE INTERNA | L USF | | | | | | WR-20 |) WELL RECORD | & LOG (| Version 04/3 | 0/191 |

WELL TAG ID NO.

LOCATION

PAGE 2 OF 2

WELL TAG ID NO.

| | DEPTH (fee | DEPTH (feet bgl) | | COLOR AND TYPE OF MATERIAL ENCOU | NTERED - | WATER | ESTIMATED | |
|------------------------------|---|------------------|---------------------|--|-----------------|------------------------|---|--|
| | FROM | то | THICKNESS (feet) | INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZON (attach supplemental sheets to fully describe all units) | | BEARING? (YES / NO) | YIELD FOR WATER- BEARING ZONES (gpm) | |
| | 0 | 17 | | CALACHIE | | Y /N | | |
| | 17 | 30 | | SAND | | Y /N | | |
| | 30 | 40 | | SAND, SMALL GRAVEL | | Y /N | | |
| | 40 | 95 | | SAND | | Y /N | | |
| | 95 | 120 | | SANDSTONE, SAND | | Y ✓N | | |
| 7 | | | | | | Y N | | |
| VEL | | | | | | Y N | | |
| OF | | | | | | Y N | | |
| 90 | | | | | | Y N | | |
| ICI | | | | | | Y N | | |
| 4. HYDROGEOLOGIC LOG OF WELL | | | | | | Y N | | |
| EO | | | | | | Y N | | |
| ROG | | | | | | Y N | | |
| HYD | | | | | | Y N | - | |
| 4 | | | | | | Y N | | |
| | | | | | | Y N | | |
| | | | | | | Y N | | |
| | | | | | | Y N | | |
| | | | | | | Y N | | |
| | | | | | | Y N | | |
| | | | | | | Y N | | |
| | METHOD US | ED TO ES | STIMATE YIELD | OF WATER-BEARING STRATA: | тот | TAL ESTIMATED | | |
| | PUMP | A | IR LIFT | BAILER OTHER - SPECIFY: DRY HOLE | WE | ELL YIELD (gpm): | 0.00 | |
| NC | WELL TEST | | | ACH A COPY OF DATA COLLECTED DURING WELL IE, AND A TABLE SHOWING DISCHARGE AND DRA | | | | |
| TEST; RIG SUPERVISION | MISCELLANEOUS INFORMATION: THE BORING WILL BE SECURED AND LEFT OPEN FOR 72 HOURS AT WHICH TIME, XTO WILL ASSESS FOR THE PRESENCE OR ABSENCE OF GROUNDWATER, XTO WILL BACKFILL THE BORING FOLLOWING NMOSE ABANDONMENT PROCEDUCES FOR SOIL BORING. | | | | | | | |
| S. TES | PRINT NAME RUSSELL SO | | | VISOR(S) THAT PROVIDED ONSITE SUPERVISION C | OF WELL CONSTRU | UCTION OTHER TH | IAN LICENSEE: | |
| 6. SIGNATURE | BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING. RUSSELL SOUTHERLAND O6/22/2022 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE | | | | | | | |
| | | | | | - تامند اور سد | | | |
| | R OSE INTERNA E NO. | AL USE | | POD NO. | WR-20 WELL RI | ECORD & LOG (Ver | sion 04/30/2019) | |
| 1 | | | | 100110. | | | | |

LOCATION

Received by OCD: 1/8/2024 4:25:51 PM



U.S. Fish and Wildlife Service

National Wetlands Inventory

Intermittent 4,121 feet



December 9, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond



Lake

Other



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Received by OCD: 1/8/2024 4:25:51 PM



U.S. Fish and Wildlife Service

National Wetlands Inventory

Pond 12,657 feet



December 9, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

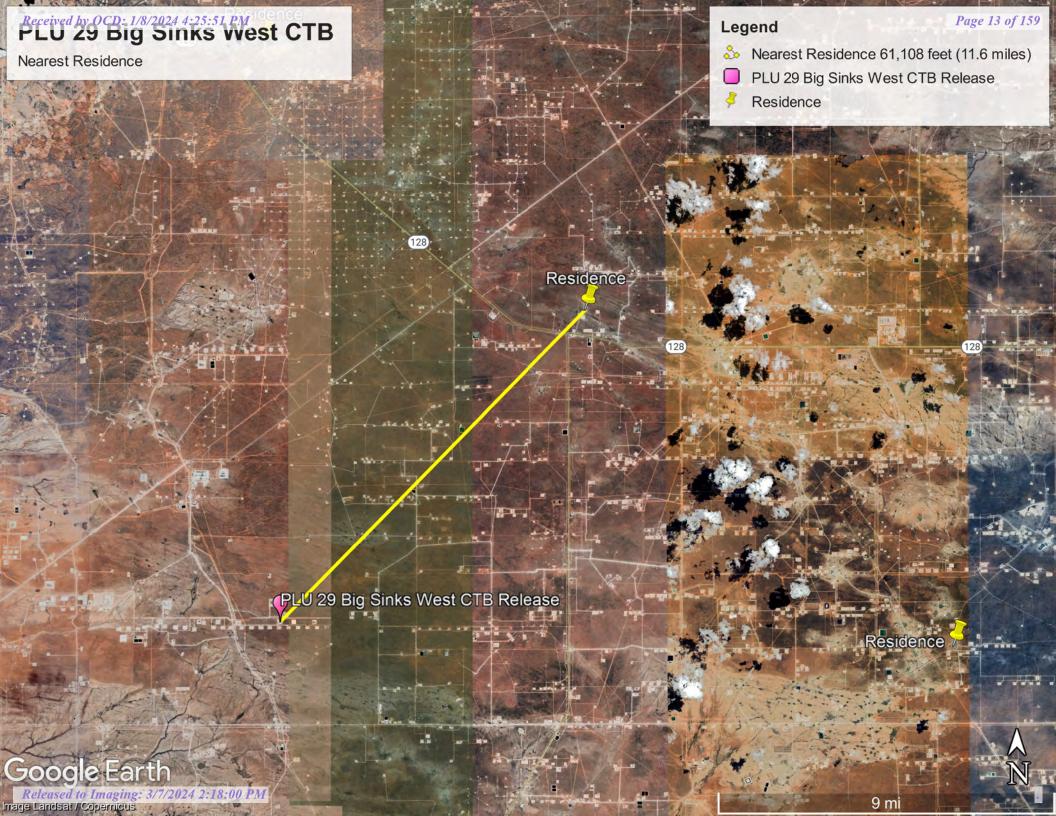
Freshwater Pond

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

C 02250

25S 31E

614912 3553620*

Driller License:

Driller Company:

Driller Name:

UNKNOWN

Drill Start Date:

Drill Finish Date:

12/31/1941

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 6 GPM

Casing Size:

8.63

Depth Well:

400 feet

Depth Water:

390 feet

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.

12/9/23 12:31 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



New Mexico Office of the State Engineer

Water Right Summary

WR File Number: C 02250 Subbasin: CUB Cross Reference: -

Primary Purpose: STK 72-12-1 LIVESTOCK WATERING

Primary Status: DCL DECLARATION

Total Acres: 0 Subfile: - Header: -

Total Diversion: 3 Cause/Case: -

Owner: BUCK JACKSON TRUST

Contact: LARUE JACKSON

Documents on File

Status From/ Trn# Doc File/Act 1 2 **Transaction Desc.** To **Diversion Consumptive** Acres 1992-03-16 DCL PRC C 02250 T 0 3

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 C 02250
 3 1 4 21 25S 31E
 614912 3553620*
 3553620*

An () after northing value indicates UTM location was derived from PLSS - see Help

Place of Use

Q Q
256 64 Q16 Q4Sec Tws Rng Acres Diversion CU Use Priority Status Other Location Desc
0 3 STK DCL NO PLACE OF USE GIVEN.

Source

Acres Diversion CU Use Priority Source Description 6 STK GW

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.

12/9/23 12:30 PM WATER RIGHT SUMMARY



PISH A WILDLIPE SERVICE

U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetland 7,255 feet



December 9, 2023

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Lake

Freshwater Forested/Shrub Wetland

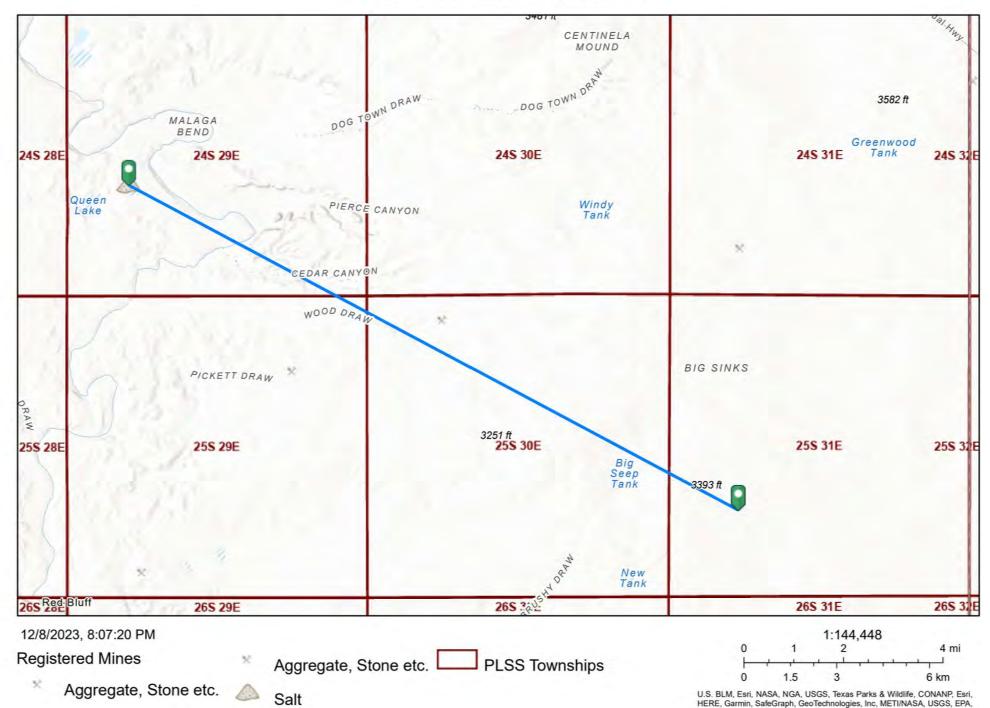
Other

Riverine

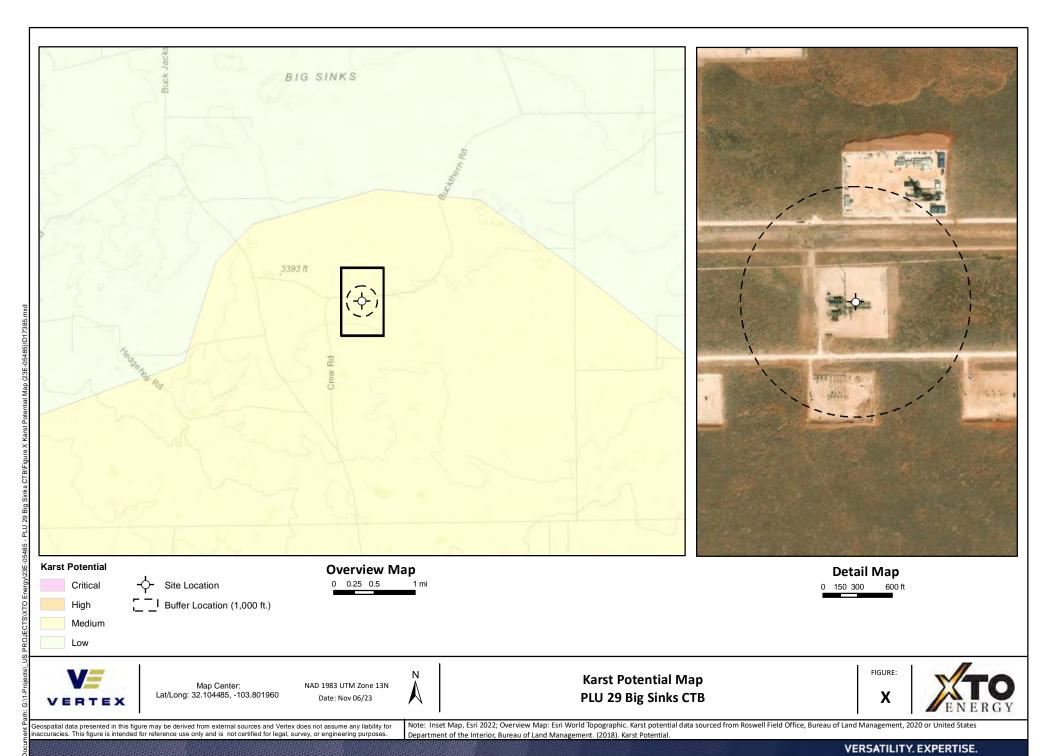
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

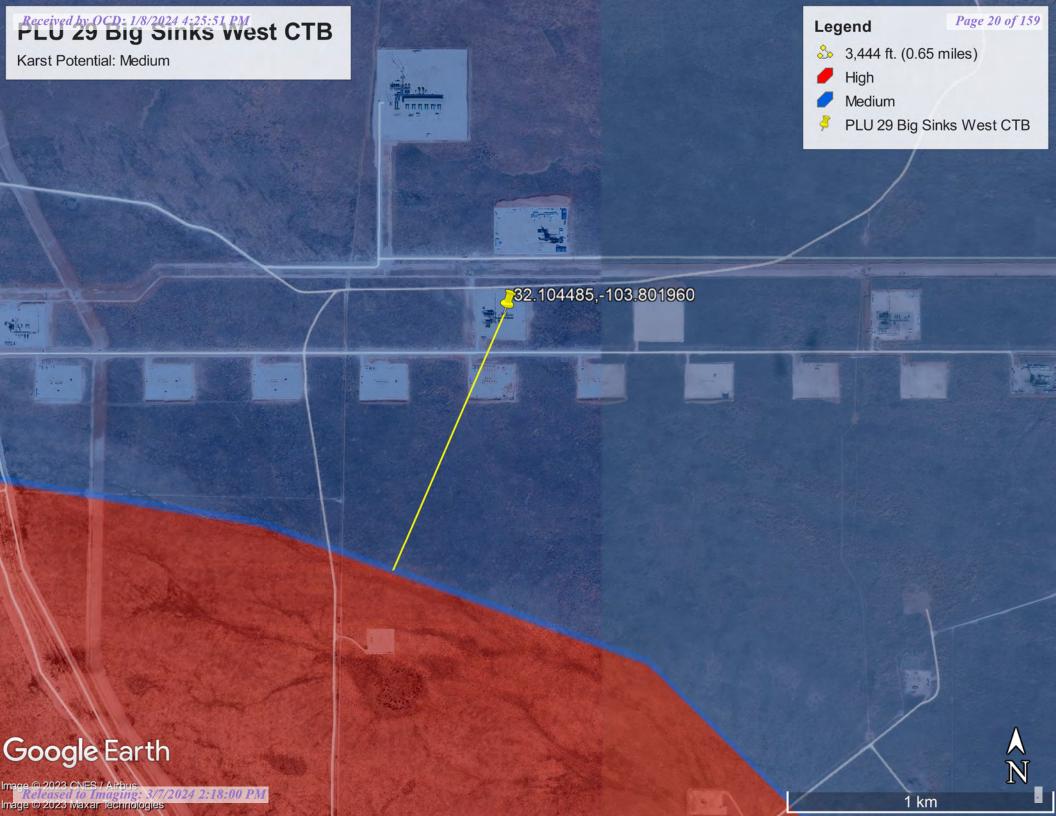
Received by OCD: 1/8/2024 4:25:51 PM

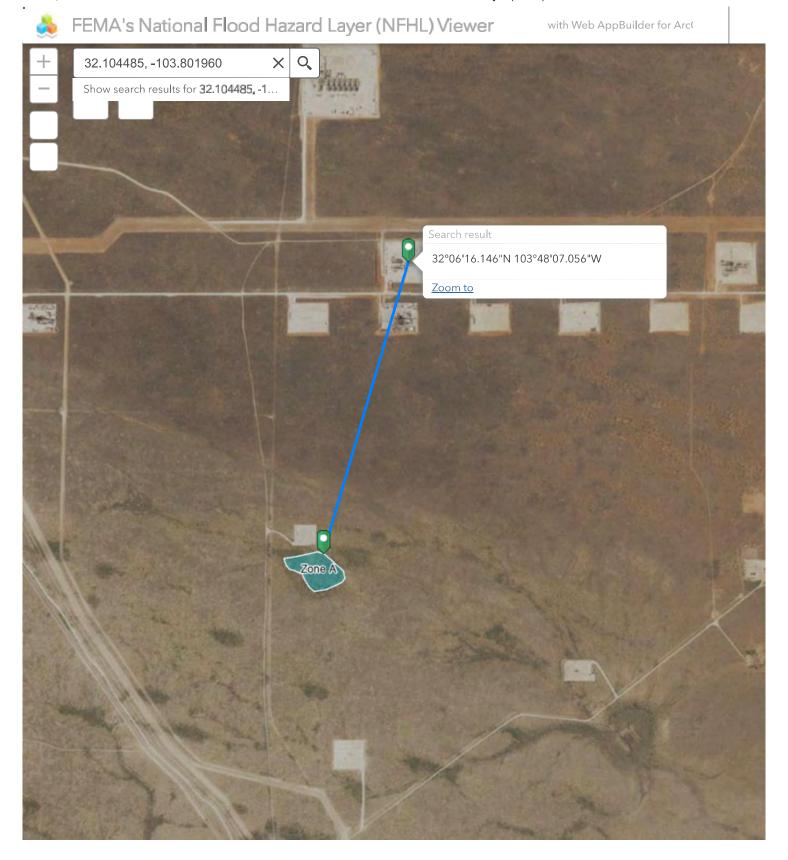
Subsurface Mine 73,190 feet



Received by OCD: 1/8/2024 4:25:51 PM







0,3mi

-103.798 32.098 Degrees

National Flood Hazard Layer FIRMette





Legend

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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AF SPECIAL FLOOD Regulatory Floodway HAZARD AREAS 0.2% Annual Chance Flood Hazard, A sas

> of 1% annual chance flood with average depth less than one foot or with drain areas of less than one square mile Zone **Future Conditions 1% Annual** Chance Flood Hazard Zone X

OTHER AREAS OF FLOOD HAZARD

OTHER AREAS

MAP PANELS

Area with Reduced Flood Risk due to Levee. See Notes. Zone X Area with Flood Risk due to Levee Zone

Area of Undetermined Flood Hazard Zone D

Cross Sections with 1% Annual Chance

NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs

- - - Channel, Culvert, or Storm Sewer

STRUCTURES | IIIIII Levee, Dike, or Floodwall

17.5 Water Surface Elevation Coastal Transect --- 513---- Base Flood Elevation Line (BFE) Limit of Study

Hydrographic Feature

Jurisdiction Boundary --- Coastal Transect Baseline OTHER Profile Baseline **FEATURES**

Digital Data Available

No Digital Data Available

Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/8/2023 at 6:47 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

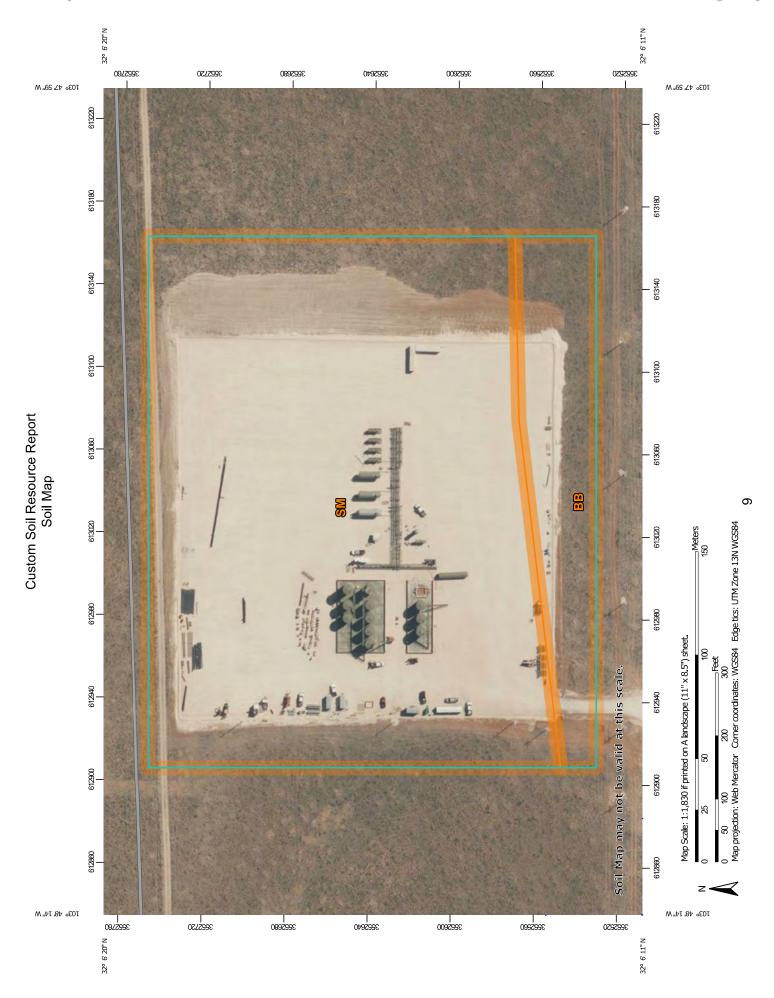


VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico





This product is generated from the USDA-NRCS certified data as distance and area. A projection that preserves area, such as the contrasting soils that could have been shown at a more detailed Maps from the Web Soil Survey are based on the Web Mercator Feb 7, 2020—May Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background projection, which preserves direction and shape but distorts Soil map units are labeled (as space allows) for map scales imagery displayed on these maps. As a result, some minor Source of Map: Natural Resources Conservation Service Albers equal-area conic projection, should be used if more The soil surveys that comprise your AOI were mapped at 1:20,000. line placement. The maps do not show the small areas of Please rely on the bar scale on each map sheet for map accurate calculations of distance or area are required. Coordinate System: Web Mercator (EPSG:3857) MAP INFORMATION Warning: Soil Map may not be valid at this scale. shifting of map unit boundaries may be evident. Version 19, Sep 7, 2023 Soil Survey Area: Eddy Area, New Mexico Date(s) aerial images were photographed: of the version date(s) listed below. Web Soil Survey URL: Survey Area Data: 1:50,000 or larger measurements. 12, 2020 Special Line Features Streams and Canals Interstate Highways Aerial Photography Very Stony Spot Major Roads Local Roads Stony Spot Spoil Area **US Routes** Wet Spot Other Nater Features **Transportation 3ackground** MAP LEGEND 8 ŧ Soil Map Unit Polygons Severely Eroded Spot Area of Interest (AOI) Soil Map Unit Points Miscellaneous Water Soil Map Unit Lines Closed Depression Marsh or swamp Perennial Water Mine or Quarry Special Point Features **Gravelly Spot** Rock Outcrop Saline Spot Sandy Spot Slide or Slip Gravel Pit Sodic Spot **Borrow Pit** Lava Flow Clay Spot Area of Interest (AOI) Sinkhole Blowout Landfill 9 Soils

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI |
|-----------------------------|---|--------------|----------------|
| ВВ | Berino complex, 0 to 3 percent slopes, eroded | 2.0 | 14.3% |
| SM | Simona-Bippus complex, 0 to 5 percent slopes | 11.8 | 85.7% |
| Totals for Area of Interest | • | 13.8 | 100.0% |

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however,

onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

BB—Berino complex, 0 to 3 percent slopes, eroded

Map Unit Setting

National map unit symbol: 1w43 Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent Pajarito and similar soils: 25 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Description of Pajarito

Setting

Landform: Dunes, plains, interdunes

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear Across-slope shape: Convex, linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 9 inches: loamy fine sand H2 - 9 to 72 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00

in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Minor Components

Wink

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Cacique

Percent of map unit: 4 percent

Ecological site: R070BD004NM - Sandy

Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

SM—Simona-Bippus complex, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 1w5x Elevation: 1,800 to 5,000 feet

Mean annual precipitation: 8 to 24 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 55 percent Bippus and similar soils: 30 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam

H2 - 19 to 23 inches: indurated

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately

low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Description of Bippus

Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Mixed alluvium

Typical profile

H1 - 0 to 37 inches: silty clay loam H2 - 37 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: R070BC017NM - Bottomland

Hydric soil rating: No

Minor Components

Simona

Percent of map unit: 8 percent

Ecological site: R070BD002NM - Shallow Sandy

Hydric soil rating: No

Bippus

Percent of map unit: 7 percent

Ecological site: R070BC017NM - Bottomland

Hydric soil rating: No

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ArcGIS Geology Map

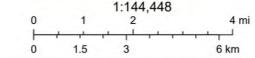


Lithologic Units

Playa—Alluvium and evaporite deposits (Holocene)

Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names

ArcGIS Web AppBuilder



General Information

| NMOCD District: | District 2 – Artesia | Incident ID: | nAPP2326151503 |
|-----------------|---------------------------|----------------|---------------------------|
| Landowner: | Bureau of Land Management | RP Reference: | N/A |
| Client: | XTO Energy Inc. | Site Location: | PLU 29 Big Sinks West CTB |
| Date: | January 4, 2024 | Project #: | 23E-05485 |
| Client Contact: | Garrett Green | Phone #: | 575.200.0729 |
| Vertex PM: | Chance Dixon | Phone #: | 575.988.1472 |

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the open release at PLU 29 Big Sinks West CTB. The release involved produced water discharged onto the pad from a pinhole leak caused by interior corrosion of a 6-inch water line. The release occurred around and under the treaters and corresponding infrastructure. Approximately 12.99 bbl of produced water was released and none was recovered. Areas of environmental concern identified and delineated include the treaters and corresponding equipment. An aerial photograph of the site with characterization locations and approximate release area is presented on Figure 1 (Attachment 1). The current closure criteria have been selected as per New Mexico Administrative Code 19.15.29.12 and are presented below.

| Table 1. Closure Criteria for Soils Impacted by a Release | | | | |
|--|-------------------|-----------|--|--|
| Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS | Constituent | Limit | | |
| | Chloride | 600 mg/kg | | |
| , 50 feet | TPH (GRO+DRO+MRO) | 100 mg/kg | | |
| < 50 feet | BTEX | 50 mg/kg | | |
| | Benzene | 10 mg/kg | | |

TDS – Total dissolved solids

Site Assessment/Characterization

Site characterization was started on November 8, 2023, and completed on December 1, 2023. A total of nine sample points (boreholes) were established and samples were collected for field screening. Samples were obtained at various depths for horizontal and vertical delineation. In total, 15 samples were submitted to Eurofins Xenco Laboratory in Midland, Texas, for analysis. The sample locations are presented in Figure 1 (Attachment 1). Laboratory analysis results have been compared to the above-noted closure criteria and the results from the characterization activity are presented in Table 2 (Attachment 2). Daily field reports and laboratory data reports are included in Attachments 3 and 4, respectively. All applicable research as it pertains to closure criteria selection is presented in Attachment 5. Exceedances to reclamation and remediation criteria are identified in the table as bold with a gray background.

Proposed Remedial Activities

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation with hand tools. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. The soil will be excavated with hand tools in increments of 0.5 or 2 feet below the ground surface (bgs). Field screening will be utilized to confirm the removal of contaminated soil below the applicable closure criteria.

TPH - Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO),

BTEX – Benzene, toluene, ethylbenzene, and xylenes

Environmental Site Remediation Work Plan



Contaminated soils will be stored on a 30mil liner prior to disposal at an approved facility. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

Around Treaters and Corresponding Equipment – nAPP2326151503

Exceedances to closure criteria were identified at sample points BH23-03, BH23-06, BH23-10, and BH23-11. The entire release area including BH23-10 and BH23-11 will be excavated to 0.5 feet bgs except the area around BH23-03, which will be excavated to 4.5 feet bgs. A hand crew will be utilized to perform all removal of contaminated soil. Field screening will be utilized to find the horizontal and vertical extents of the impacted area. Confirmation samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters. **The estimated volume to be excavated is approximately 175 cubic yards.** Excavation is planned to be completed within 90 days of approval of this Environmental Site Remediation Work Plan. The completed NMCOD C-141 Report for the incident is presented in Attachment 6. The planned depths of each exceedance is listed below.

| Sample Point | Excavation Depth | Remediation Method |
|--------------|------------------|--------------------|
| BH22-03 | 4.5 | Handcrew |
| BH23-06 | 0.5 | Handcrew |
| BH23-10 | 0.5 | Handcrew |
| BH23-11 | 0.5 | Handcrew |

The site does not currently have accurate data to depict the depth to groundwater. Most of the site has been deemed unsafe to excavate past 0.5 feet bgs due to the high-producing production equipment it lies beneath. If exceedances to NMOCD's strictest closure criteria are collected during confirmation sampling or if a refusal is hit at that depth, the depth to groundwater will be determined by drilling an exploratory borehole permitted by the New Mexico Office of the State Engineer (NMOSE) within a 0.5-mile radius of the site. The borehole will be advanced to 55 feet bgs to determine if groundwater is present at that depth. The plan for the borehole will be to loosen the current closure criteria to NMOCD's 51-100 feet on-pad criteria. Reclamation with the top four feet meeting the strictest standards will then be deferred until all oil and gas activities on the site have been terminated per 19.15.29.13 NMAC. If no groundwater is detected at 55 feet bgs, closure criteria for the site will then be associated with the following constituent concentration limits as presented in Table 2.

| Should you have any questions or concerns, please d | o not hesitate to contact Chance Dixon at | 575.988.1472 or cdixon@vertex.ca. |
|--|---|-----------------------------------|
| Lakin Pullman, B.Sc. ENVIRONMENTAL SPECIALIST, REPORTING | Date | |
| Chance Dixon, B.Sc. PROJECT MANAGER, REPORT REVIEW | Date | |

Environmental Site Remediation Work Plan



Environmental Site Remediation Work Plan



Attachments

Attachment 1. Characterization Sampling Site Schematic

Attachment 2. Field Screening and Laboratory Results Table

Attachment 3. Daily Field Reports with Photographs

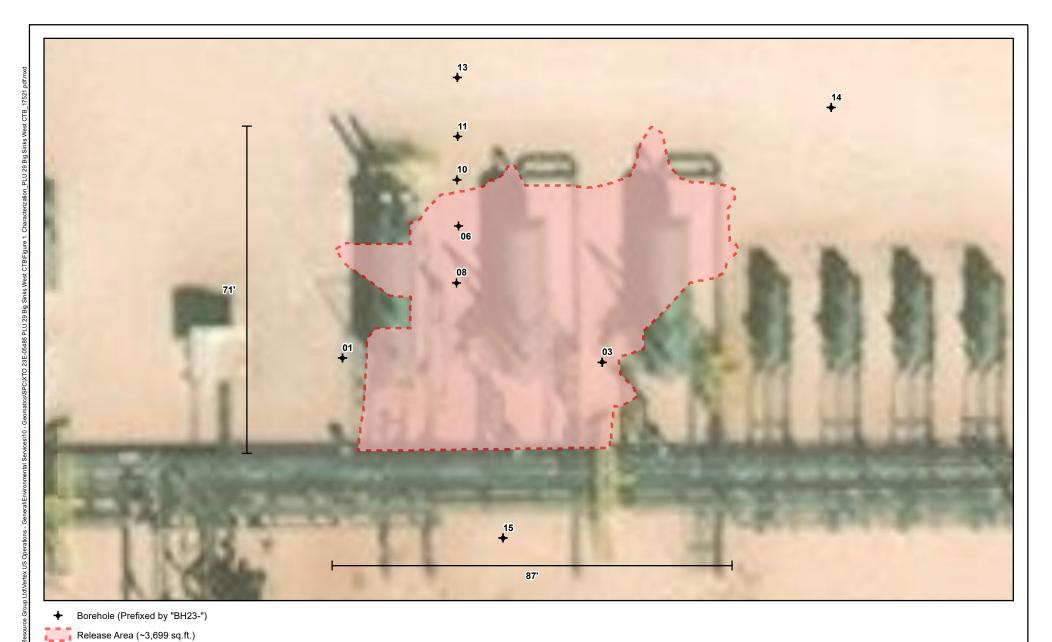
Attachment 4. Laboratory Data Reports with Chain of Custody Forms

Attachment 5. Closure Criteria Research

Attachment 6. NMOCD C-141 Report

ATTACHMENT 1

Received by OCD: 1/8/2024 4:25:51 PM





0 12.5 25 ft

Map Center:
Lat/Long: 32.104424, -103.801921

NAD 1983 UTM Zone 13N Date: Dec 12/23



Characterization Sampling Site Schematic PLU 29 Big Sinks West CTB

FIGURE:

1



Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2022. Approximate lease boundary from imagery by Vertex Professional Services Ltd. (Vertex), 2023. Site features from GPS, Vertex, 2023.

ATTACHMENT 2

Client Name: XTO Energy, Inc. Site Name: PLU 29 Big Sinks West CTB NMOCD Tracking #: nAPP2326151503

Project #: 23E-05485

Lab Reports: 890-5610-1, 890-5632-1, 890-5683-1, and 890-5756-1

| | Table 3. I | nitial Characterizatio | n Sample | Field Scre | en and La | boratory | Results - D | epth to G | roundwat | er <50 fee | t bgs | | |
|-----------|--------------|------------------------|--|------------------------|--------------------|--------------|----------------------------------|--------------------------------|-----------------------------------|-------------|---------------------------------------|------------------------|--|
| | Sample Desci | ription | Field Sc | reening | Laboratory Results | | | | | | | | |
| | | | | | | | Petrole | um Hydrod | arbons | | Inorganic | | |
| Sample ID | Depth (ft) | Sample Date | Extractable Organic Compounds (PetroFlag) | Chloride Concentration | Benzene | BTEX (Total) | Gasoline Range Organics (GRO) | Diesel Range Organics (DRO) | Motor Oil Range Organics (MRO) | (GRO + DRO) | Total Petroleum Hydrocarbons (TPH) | Chloride Concentration | |
| | | | (ppm) | (ppm) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | |
| BH23-01 | 0 | November 9, 2023 | 61 | 37 | ND | ND | ND | ND | ND | ND | ND | 78.9 | |
| B1123-01 | 2 | November 9, 2023 | 24 | 37 | ND | ND | ND | ND | ND | ND | ND | 15.7 | |
| | 0 | November 8, 2023 | 67 | 7,729 | ND | ND | ND | ND | ND | ND | ND | 9920 | |
| BH23-03 | 2 | November 8, 2023 | 49 | 3,204 | ND | ND | ND | ND | ND | ND | ND | 601 | |
| B1123-03 | 4 | November 8, 2023 | 50 | 353 | ND | ND | ND | ND | ND | ND | ND | 3040 | |
| | 4.5 | December 1, 2023 | 85 | 418 | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH23-06 | 0 | November 10, 2023 | 56 | 1,010 | - | ı | - | 1 | ı | - | - | - | |
| B1123-00 | 1.5 | November 10, 2023 | 52 | 581 | - | 1 | - | 1 | 1 | - | - | - | |
| | 0 | November 9, 2023 | 48 | 2,226 | ND | ND | ND | ND | ND | ND | ND | 58.8 | |
| BH23-08 | 2 | November 9, 2023 | 57 | 1,957 | ND | ND | ND | ND | ND | ND | ND | 460 | |
| | 4 | November 9, 2023 | 49 | 33 | ND | ND | ND | ND | ND | ND | ND | 34.7 | |
| BH23-10 | 0 | November 14, 2023 | 73 | 1,033 | - | - | - | - | - | - | - | - | |
| 91123-10 | 2 | November 14, 2023 | 28 | 648 | - | - | - | - | - | - | - | - | |
| BH23-11 | 0 | November 14, 2023 | 36 | 854 | - | - | - | - | - | - | - | - | |
| DU52-11 | 2 | November 14, 2023 | 23 | 99 | - | ı | - | - | - | - | - | - | |
| BH23-13 | 0 | November 14, 2023 | 82 | 186 | ND | ND | ND | ND | ND | ND | ND | 39.1 | |
| вп23-13 | 1.5 | November 14, 2023 | 41 | 89 | ND | ND | ND | ND | ND | ND | ND | 51.6 | |
| BH23-14 | 0 | November 21, 2023 | ND | 172 | ND | ND | ND | ND | ND | ND | ND | 5.07 | |
| ВП23-14 | 2 | November 21, 2023 | ND | 315 | ND | ND | ND | ND | ND | ND | ND | ND | |
| BH23-15 | 0 | November 21, 2023 | 200 | 215 | ND | ND | ND | ND | ND | ND | ND | ND | |
| BU52-12 | 2 | November 21, 2023 | 232 | 242 | ND | ND | ND | ND | ND | ND | ND | 5.27 | |

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria



[&]quot;-" indicates not analyzed/assessed

ATTACHMENT 3



| Client: | XTO Energy Inc. (US) | Inspection Date: | 11/8/2023 | | | | | | |
|-------------------------|-----------------------|------------------|-------------------|--|--|--|--|--|--|
| Site Location Name: | PLU 29 Big Sinks West | Report Run Date: | 11/8/2023 9:55 PM | | | | | | |
| Client Contact Name: | Garrett Green | API#: | | | | | | | |
| Client Contact Phone #: | 575-200-0729 | | | | | | | | |
| Unique Project ID | | Project Owner: | | | | | | | |
| Project Reference # | | Project Manager: | | | | | | | |
| | Summary of Times | | | | | | | | |
| Arrived at Site | 11/8/2023 7:30 AM | | | | | | | | |
| Departed Site | 11/8/2023 11:48 AM | | | | | | | | |



Site Sketch

Site Sketch



Field Notes

- **11:11** Arrived on site and filled out safety paperwork.
- **11:12** Obtained work authorization for hand augering on site from a Garrett Green on the phone.
- 14:50 Collected samples BH23-01 through BH23-04 at 0' and 2'. Also collected BH23-03 at 4'.

Next Steps & Recommendations

1



Site Photos





Western portion of spill area between equipment.

Viewing Direction: East



Southern spill area with surface crystallization.

Viewing Direction: East



Southeastern portion of spill area behind equipment.

Viewing Direction: South



Northeastern spill area.





Southern spill area with surface staining.



Daily Site Visit Signature

Inspector: Hunter Klein

Signature:



| Client: | XTO Energy Inc. (US) | Inspection Date: | 11/21/2023 | | | | |
|-------------------------|-----------------------|------------------|---------------------|--|--|--|--|
| Site Location Name: | PLU 29 Big Sinks West | Report Run Date: | 11/21/2023 10:53 PM | | | | |
| Client Contact Name: | Garrett Green | API #: | | | | | |
| Client Contact Phone #: | 575-200-0729 | _ | | | | | |
| Unique Project ID | | Project Owner: | | | | | |
| Project Reference # | | Project Manager: | | | | | |
| Summary of Times | | | | | | | |
| Arrived at Site | 11/21/2023 9:07 AM | | | | | | |
| Departed Site | 11/21/2023 2:15 PM | | | | | | |
| | | Field Not | es | | | | |

- 13:57 Completed Vertex safety paperwork upon arrival, as well as the safety meeting with the dig crew recommended for XTO. We wait until noon for Garrett Green to get on site to give the work authorization needed to start the remaining characterization around the machines. All BH were scanned with pin-finder before starting to dig.
- 13:57 Obtained BH23-14 and 15 at 0 and 2'
- 14:00 All samples were field-screened for Cl and TPH. Cl is under 315 ppm for all samples while TPH for BH23-14 is below 5 ppm at 0 and 2 and around 200 ppm for BH23-15 at 0 and 2.
- **14:00** All samples were jarred and sent to the lab.

Next Steps & Recommendations

1



Site Photos

Viewing Direction: North



Site Placard



BH23-15 at 2





BH23-14 at 2'



Daily Site Visit Signature

Inspector: Deusavan Costa Filho

Signature:

ATTACHMENT 4

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 11/17/2023 1:59:38 PM

JOB DESCRIPTION

PLU 29 WEST BIG SINKS 23E-05485

JOB NUMBER

890-5610-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 11/17/2023 1:59:38 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 31 11/17/2023 Released to Imaging: 3/7/2024 2:18:00 PM

Client: Vertex Project/Site: PLU 29 WEST BIG SINKS Laboratory Job ID: 890-5610-1 SDG: 23E-05485

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Definitions/Glossary

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS

SDG: 23E-05485

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected. U

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**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MI 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 Practical Quantitation Limit **PQL**

PRES Presumptive **Quality Control** QC

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: Vertex

Project/Site: PLU 29 WEST BIG SINKS

Job ID: 890-5610-1

SDG: 23E-05485

Job ID: 890-5610-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5610-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/9/2023 3:44 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 4.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH 23-03 0' (890-5610-1), BH 23-03 2' (890-5610-2), BH 23-03 4' (890-5610-3), BH 23-01 0' (890-5610-4), BH 23-01 2' (890-5610-5), BH 23-08 0' (890-5610-6), BH 23-08 2' (890-5610-7) and BH 23-08 4' (890-5610-8).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67061 and analytical batch 880-67021 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-35797-A-81-D). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH 23-08 4' (890-5610-8). 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

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-35343-A-1-F), (880-35343-A-1-G) MS) and (880-35343-A-1-H MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH 23-08 2' (890-5610-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Spike compounds were inadvertently omitted during the extraction process for the matrix spike/matrix spike duplicate (MS/MSD); therefore, matrix spike recoveries are unavailable for preparation batch 880-67028 and analytical batch 880-67152. The associated laboratory control sample (LCS) met acceptance criteria.

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 880-66791 and analytical batch 880-66928 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.

Case Narrative

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Job ID: 890-5610-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

3

5

6

8

46

11

13

12

Matrix: Solid

Lab Sample ID: 890-5610-1

Client Sample Results

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23-03 0'

Date Collected: 11/08/23 09:00 Date Received: 11/09/23 15:44

Sample Depth: 0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| m-Xylene & p-Xylene | <0.00401 | U | 0.00401 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| Xylenes, Total | <0.00401 | U | 0.00401 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| 1,4-Difluorobenzene (Surr) | 122 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 15:30 | 1 |
| Method: TAL SOP Total BTEX | - Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00401 | U | 0.00401 | mg/Kg | | | 11/16/23 15:30 | 1 |
| Method: SW846 8015 NM - Die | sel Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | • • | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 11/16/23 14:55 | 1 |

| Michiga, Offoro do fob film - Dica | ici italige Oiga | illies (Bite) | (00) | | | | | |
|---|------------------|---------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | mg/Kg | | 11/15/23 09:52 | 11/16/23 14:55 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | mg/Kg | | 11/15/23 09:52 | 11/16/23 14:55 | 1 |
| Oll Range Organics (Over C28-C36) | <49.7 | U | 49.7 | mg/Kg | | 11/15/23 09:52 | 11/16/23 14:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 114 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 14:55 | 1 |

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | |
|--|---------------------|----------|------|---|----------------|----------------|---------|--|
| Method: EPA 300.0 - Anions, Ion Chroma | atography - Soluble | | | | | | | |
| o-Terphenyl | 126 | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 14:55 | 1 | |
| | | | | | | | | |

100

mg/Kg

9920

Client Sample ID: BH 23-03 2'

Date Collected: 11/08/23 09:05 Date Received: 11/09/23 15:44

Sample Depth: 2'

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:50 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:50 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:50 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:50 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:50 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/15/23 11:41 | 11/16/23 15:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 15:50 | 1 |

Eurofins Carlsbad

11/14/23 20:38

Lab Sample ID: 890-5610-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-5610-2

Lab Sample ID: 890-5610-3

Matrix: Solid

Client Sample Results

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23-03 2'

Date Collected: 11/08/23 09:05 Date Received: 11/09/23 15:44

Sample Depth: 2'

| Method: SW846 8021B | Volatile Organic | Compounds (GC) (Continued) | |
|---------------------|--------------------------------------|----------------------------|--|

| Surrogate | %Recovery Qualit | fier Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|------------------|-------------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 121 | 70 - 130 | 11/15/23 11:41 | 11/16/23 15:50 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/16/23 15:50 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.6 | U | 49.6 | mg/Kg | | | 11/16/23 15:16 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|--------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.6 | U | 49.6 | mg/Kg | | 11/15/23 09:52 | 11/16/23 15:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.6 | U | 49.6 | mg/Kg | | 11/15/23 09:52 | 11/16/23 15:16 | 1 |
| Oll Range Organics (Over C28-C36) | <49.6 | U | 49.6 | mg/Kg | | 11/15/23 09:52 | 11/16/23 15:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|---|----------------|----------------|---------|
| 1-Chlorooctane | 109 | | 70 - 130 | 1 | 11/15/23 09:52 | 11/16/23 15:16 | 1 |
| o-Terphenyl | 118 | | 70 - 130 | 1 | 11/15/23 09:52 | 11/16/23 15:16 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 601 | | 25.1 | mg/Kg | | | 11/14/23 20:44 | 5 |

Client Sample ID: BH 23-03

Date Collected: 11/08/23 09:10 Date Received: 11/09/23 15:44

Sample Depth: 4'

| ı | Method: SW846 8021B | Valatila Ossasia | O = (OO) |
|---|---------------------|------------------|----------|
| | | | |
| | | | |

| | | | , | | | | | |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| Toluene | <0.00198 | U | 0.00198 | mg/Kg | | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| Ethylbenzene | <0.00198 | U | 0.00198 | mg/Kg | | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.00396 | mg/Kg | | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| o-Xylene | <0.00198 | U | 0.00198 | mg/Kg | | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| Xylenes, Total | <0.00396 | U | 0.00396 | mg/Kg | | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| 1 4 Diffusionahan-ana (Cum) | 116 | | 70 120 | | | 11/15/00 11:41 | 11/16/00 16:11 | 4 |

| Surrogate | %Recovery Quaimer | Limits | Prepared | Analyzea | DII Fac |
|-----------------------------|-------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | 70 - 130 | 11/15/23 11:41 | 11/16/23 16:11 | 1 |
| 1,4-Difluorobenzene (Surr) | 116 | 70 - 130 | 11/15/23 11:41 | 11/16/23 16:11 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00396 | U | 0.00396 | mg/Kg | | | 11/16/23 16:11 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 11/16/23 15:37 | 1 |

Client Sample Results

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23-03

Da Date Received: 11/09/23 15:44

Sample Depth: 4'

| Client Sample ID: BH 23-03 | 4' | Lab Sample ID: 890-5610-3 |
|--------------------------------|----|---------------------------|
| Date Collected: 11/08/23 09:10 | | Matrix: Solid |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.1 | U | 50.1 | mg/Kg | | 11/15/23 09:52 | 11/16/23 15:37 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.1 | U | 50.1 | mg/Kg | | 11/15/23 09:52 | 11/16/23 15:37 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.1 | U | 50.1 | mg/Kg | | 11/15/23 09:52 | 11/16/23 15:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 108 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 15:37 | 1 |
| o-Terphenyl | 119 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 15:37 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 3040 | | 24.9 | mg/Kg | | - | 11/14/23 21:04 | 5 |

Client Sample ID: BH 23-01 0'

Date Collected: 11/09/23 09:00

Date Received: 11/09/23 15:44

Sample Depth: 0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|--|--|---------------------------|----------|---|---|---------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 84 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| 1,4-Difluorobenzene (Surr) | 109 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 18:02 | 1 |
| - Method: TAL SOP Total BTEX - 1 | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/16/23 18:02 | 1 |
| - - | | | | | | | | |
| Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) ((| C() | | | | | |
| | | | • | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte Total TPH | | Qualifier | • | Unit mg/Kg | <u>D</u> | Prepared | Analyzed 11/16/23 15:58 | Dil Fac |
| Total TPH | Result <50.4 | Qualifier U | RL 50.4 | | <u>D</u> | Prepared | | |
| | Result <50.4 | Qualifier U | RL 50.4 | | <u>D</u> | Prepared Prepared | | |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics | Result <50.4 | Qualifier Unics (DRO) Qualifier | RL 50.4 (GC) | mg/Kg | | | 11/16/23 15:58 | 1 |
| Total TPH Method: SW846 8015B NM - Dies Analyte | Result <50.4 sel Range Orga | Qualifier U nics (DRO) Qualifier U | RL 50.4 (GC) | mg/Kg | | Prepared | 11/16/23 15:58 Analyzed | 1 Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Result <50.4 sel Range Orga Result <50.4 | Qualifier U nics (DRO) Qualifier U | RL 50.4 (GC) RL 50.4 | mg/Kg Unit mg/Kg | | Prepared 11/15/23 09:52 | 11/16/23 15:58 Analyzed 11/16/23 15:58 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 | Result <50.4 sel Range Orga Result <50.4 | Qualifier U nics (DRO) Qualifier U | RL 50.4 (GC) RL 50.4 | mg/Kg Unit mg/Kg | | Prepared 11/15/23 09:52 | 11/16/23 15:58 Analyzed 11/16/23 15:58 | Dil Fac |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result | Qualifier U nics (DRO) Qualifier U U | RL 50.4 (GC) RL 50.4 50.4 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/15/23 09:52 11/15/23 09:52 | 11/16/23 15:58 Analyzed 11/16/23 15:58 11/16/23 15:58 | 1 Dil Fac 1 |
| Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result | Qualifier U nics (DRO) Qualifier U U | RL 50.4 (GC) RL 50.4 50.4 | mg/Kg Unit mg/Kg mg/Kg | | Prepared 11/15/23 09:52 11/15/23 09:52 11/15/23 09:52 | Analyzed 11/16/23 15:58 Analyzed 11/16/23 15:58 11/16/23 15:58 | 1 Dil Fac 1 1 |

Eurofins Carlsbad

Lab Sample ID: 890-5610-4

Matrix: Solid

Client Sample Results

Client: Vertex Project/Site: PLU 29 WEST BIG SINKS Job ID: 890-5610-1

SDG: 23E-05485

Client Sample ID: BH 23-01 0'

Date Collected: 11/09/23 09:00 Date Received: 11/09/23 15:44

Sample Depth: 0'

Lab Sample ID: 890-5610-4

Lab Sample ID: 890-5610-5

Analyzed

11/16/23 18:22

Dil Fac

Matrix: Solid

Matrix: Solid

| Method: EPA 300 | 0.0 - Anions, Ion Chromatograp | ohy - Soluble | | | | | |
|-----------------|--------------------------------|---------------|--------|---|----------|----------------|---------|
| Analyte | Result | Qualifier RI | L Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 78.9 | 5.05 | mg/Kg |] | | 11/14/23 10:44 | 1 |

Client Sample ID: BH 23-01

Result Qualifier

<0.00399 U

Date Collected: 11/09/23 09:05 Date Received: 11/09/23 15:44

Sample Depth: 2'

Analyte

Total BTEX

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 90 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |
| 1,4-Difluorobenzene (Surr) | 105 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 18:22 | 1 |

| i | - - - - Mathadi SW046 9045 NM - Diagol F | Damas Overen | inn (DDO) (6 | >C > | | | | | |
|---|---|--------------|--------------|----------------|-------|---|----------|----------------|---------|
| | Method: SW846 8015 NM - Diesel F Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Total TPH | <50.5 | U | 50.5 | mg/Kg | | | 11/16/23 16:19 | 1 |

0.00399

Unit

mg/Kg

Prepared

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.5 | U | 50.5 | mg/Kg | | 11/15/23 09:52 | 11/16/23 16:19 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.5 | U | 50.5 | mg/Kg | | 11/15/23 09:52 | 11/16/23 16:19 | 1 |
| Oll Range Organics (Over C28-C36) | <50.5 | U | 50.5 | mg/Kg | | 11/15/23 09:52 | 11/16/23 16:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 105 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 16:19 | 1 |
| o-Terphenyl | 120 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 16:19 | 1 |

| Method: EPA 300.0 - Anions, Ion Ch | romatography - So | luble | | | | | |
|------------------------------------|-------------------|-------|-------|---|----------|----------------|---------|
| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 15.7 | 5.01 | mg/Kg | | | 11/14/23 10:49 | 1 |

Matrix: Solid

Lab Sample ID: 890-5610-6

Client Sample Results

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23-08 0'

Date Collected: 11/09/23 09:10 Date Received: 11/09/23 15:44

Sample Depth: 0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-------------------|-------------|----------|-------|----------|----------------|----------------|---------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| 1,4-Difluorobenzene (Surr) | 118 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 18:42 | 1 |
| Method: TAL SOP Total BTEX | - Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00402 | U | 0.00402 | mg/Kg | <u> </u> | | 11/16/23 18:42 | 1 |
| Method: SW846 8015 NM - Die | esel Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.7 | U | 49.7 | mg/Kg | <u></u> | | 11/16/23 16:40 | 1 |
| Method: SW846 8015B NM - D | iesel Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |

| OII Range Organics (Over C28-C36) | <49.7 U | 49.7 | mg/Kg | 11/15/23 09:52 | 11/16/23 16:40 | 1 |
|-----------------------------------|---------------------|----------|-------|----------------|----------------|---------|
| Surrogate | %Recovery Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 107 | 70 - 130 | | 11/15/23 09:52 | 11/16/23 16:40 | 1 |
| o-Terphenyl | 118 | 70 - 130 | | 11/15/23 09:52 | 11/16/23 16:40 | 1 |

49.7

mg/Kg

11/15/23 09:52

11/16/23 16:40

Lab Sample ID: 890-5610-7

Matrix: Solid

<49.7 U

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | |
|--|----------|------------------|------|-------|---|----------|----------------|---------|
| | Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | Chloride | 58.8 | 4.98 | mg/Kg | | | 11/14/23 14:23 | 1 |

Client Sample ID: BH 23-08 2'

Date Collected: 11/09/23 09:15 Date Received: 11/09/23 15:44

Sample Depth: 2'

(GRO)-C6-C10

C10-C28)

Diesel Range Organics (Over

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:03 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:03 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:03 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:03 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:03 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 92 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 19:03 | 1 |

Matrix: Solid

Lab Sample ID: 890-5610-7

Lab Sample ID: 890-5610-8

Matrix: Solid

Client Sample Results

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23-08 2'

Date Collected: 11/09/23 09:15 Date Received: 11/09/23 15:44

Sample Depth: 2'

| Method: SW846 8021B | - Volatile Organic Compounds (GC) (Continued) | |
|---------------------|---|--|

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|---------------------|----------|----------------|----------------|---------|
| 1.4-Difluorobenzene (Surr) | 117 | 70 - 130 | 11/15/23 11:41 | 11/16/23 19:03 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 11/16/23 19:03 | 1 |

Method: SW846 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 | | | 11/16/23 17:01 | 1 |

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Pocult | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|-----------|-----------|--------|-------|---|----------------|----------------|---------|
| Allalyte | | Qualifier | | | | Frepareu | Allalyzeu | Dil Fac |
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 11/15/23 09:52 | 11/16/23 17:01 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 11/15/23 09:52 | 11/16/23 17:01 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/15/23 09:52 | 11/16/23 17:01 | 1 |
| | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|------------------|---------|
| 1-Chlorooctane | 126 | 70 - 130 | 11/15/23 09:52 | 11/16/23 17:01 | 1 |
| o-Terphenyl | 136 S1+ | 70 - 130 | 11/15/23 09:52 | 2 11/16/23 17:01 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|------------------|------|-------|---|----------|----------------|---------|
| Chloride | 460 | 50.4 | mg/Kg | | | 11/14/23 14:29 | 10 |

Client Sample ID: BH 23-08 4'

Date Collected: 11/09/23 09:20 Date Received: 11/09/23 15:44

Sample Depth: 4'

| ı | Method: SW846 8021B | Valatila Ossasia | O = (OO) |
|---|---------------------|------------------|----------|
| | | | |
| | | | |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |
| Ethylbenzene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 129 | | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |
| 1,4-Difluorobenzene (Surr) | 164 | S1+ | 70 - 130 | | | 11/15/23 11:41 | 11/16/23 19:23 | 1 |

| Mothod: TAI | SOP Total RTFY | - Total RTFY | Calculation |
|-------------|----------------|--------------|-------------|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00398 | U | 0.00398 | ma/Ka | | | 11/16/23 19:23 | 1 |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 11/16/23 17:22 | 1 |

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Client Sample Results

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Sample Depth: 4'

| Client Sample ID: BH 23-08 4' | Lab Sample ID: 890-5610-8 |
|--------------------------------|---------------------------|
| Date Collected: 11/09/23 09:20 | Matrix: Solid |
| Date Received: 11/09/23 15:44 | |

| Method: SW846 8015B NM - Dies | el Range Orga | nics (DRO) | (GC) | | | | | |
|-----------------------------------|---------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <50.0 | U | 50.0 | mg/Kg | | 11/15/23 09:52 | 11/16/23 17:22 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 11/15/23 09:52 | 11/16/23 17:22 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/15/23 09:52 | 11/16/23 17:22 | 1 |
| | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 110 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 17:22 | 1 |
| o-Terphenyl | 119 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 17:22 | 1 |
| | | | | | | | | |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | е | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 34.7 | | 5.05 | mg/Kg | | | 11/14/23 11:06 | - 1 |

Surrogate Summary

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| • | | | | Percent Surrogate Red |
|--------------------------|------------------------|----------|----------|-----------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 880-35797-A-81-B MS | Matrix Spike | 103 | 98 | |
| 880-35797-A-81-C MSD | Matrix Spike Duplicate | 90 | 108 | |
| 890-5610-1 | BH 23-03 0' | 97 | 122 | |
| 890-5610-2 | BH 23-03 2' | 99 | 121 | |
| 890-5610-3 | BH 23-03 4' | 102 | 116 | |
| 890-5610-4 | BH 23-01 0' | 84 | 109 | |
| 890-5610-5 | BH 23-01 2' | 90 | 105 | |
| 890-5610-6 | BH 23-08 0' | 97 | 118 | |
| 890-5610-7 | BH 23-08 2' | 92 | 117 | |
| 890-5610-8 | BH 23-08 4' | 129 | 164 S1+ | |
| LCS 880-67061/1-A | Lab Control Sample | 99 | 116 | |
| LCSD 880-67061/2-A | Lab Control Sample Dup | 105 | 110 | |
| MB 880-67061/5-A | Method Blank | 117 | 154 S1+ | |
| MB 880-67094/5-A | Method Blank | 114 | 119 | |
| Surrogate Legend | | | | |
| BFB = 4-Bromofluorobenz | zene (Surr) | | | |
| DFBZ = 1,4-Difluorobenze | ene (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) | |
| 880-35343-A-1-G MS | Matrix Spike | 2 S1- | 0.2 S1- | |
| 880-35343-A-1-H MSD | Matrix Spike Duplicate | 2 S1- | 0.2 S1- | |
| 890-5610-1 | BH 23-03 0' | 114 | 126 | |
| 890-5610-2 | BH 23-03 2' | 109 | 118 | |
| 890-5610-3 | BH 23-03 4' | 108 | 119 | |
| 890-5610-4 | BH 23-01 0' | 106 | 115 | |
| 890-5610-5 | BH 23-01 2' | 105 | 120 | |
| 890-5610-6 | BH 23-08 0' | 107 | 118 | |
| 890-5610-7 | BH 23-08 2' | 126 | 136 S1+ | |
| 890-5610-8 | BH 23-08 4' | 110 | 119 | |
| LCS 880-67028/2-A | Lab Control Sample | 97 | 112 | |
| LCSD 880-67028/3-A | Lab Control Sample Dup | 92 | 105 | |
| MB 880-67028/1-A | Method Blank | 109 | 124 | |

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Released to Imaging: 3/7/2024 2:18:00 PM

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Client: Vertex Job ID: 890-5610-1 SDG: 23E-05485 Project/Site: PLU 29 WEST BIG SINKS

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67061/5-A

Matrix: Solid Analysis Batch: 67021 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67061

| | MB | MB | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 12:38 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 12:38 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 12:38 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/15/23 11:41 | 11/16/23 12:38 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 11:41 | 11/16/23 12:38 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/15/23 11:41 | 11/16/23 12:38 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 117 | | 70 - 130 | 11/15/23 11:41 | 11/16/23 12:38 | 1 |
| 1.4-Difluorobenzene (Surr) | 154 | S1+ | 70 - 130 | 11/15/23 11:41 | 11/16/23 12:38 | 1 |

Lab Sample ID: LCS 880-67061/1-A

Matrix: Solid

Analysis Batch: 67021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67061

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.1235 | | mg/Kg | | 124 | 70 - 130 | |
| Toluene | 0.100 | 0.08522 | | mg/Kg | | 85 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08726 | | mg/Kg | | 87 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1904 | | mg/Kg | | 95 | 70 - 130 | |
| o-Xylene | 0.100 | 0.09465 | | mg/Kg | | 95 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 99 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 116 | 70 - 130 |

Lab Sample ID: LCSD 880-67061/2-A

Matrix: Solid

Analysis Batch: 67021

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67061

RPD LCSD LCSD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.1191 mg/Kg 119 70 - 130 35 Toluene 0.100 0.08593 mg/Kg 86 70 - 130 35 Ethylbenzene 0.100 0.08452 mg/Kg 85 70 - 130 35 3 0.1801 0.200 m-Xylene & p-Xylene mg/Kg 90 70 - 130 35 0.100 0.09651 70 - 130 o-Xylene mg/Kg 35

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 105 | | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 110 | | 70 - 130 |

Lab Sample ID: 880-35797-A-81-B MS

Matrix: Solid

Analysis Batch: 67021

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

Prep Batch: 67061

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|-----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U | 0.0996 | 0.08388 | | mg/Kg | _ | 84 | 70 - 130 | |
| Toluene | < 0.00199 | U F1 | 0.0996 | 0.06167 | F1 | mg/Kg | | 62 | 70 - 130 | |

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

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

Lab Sample ID: 880-35797-A-81-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 67021

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00199 U F1 0.0996 0.06371 F1 64 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 UF1 0.199 0.1444 mg/Kg 72 70 - 130 0.0996 0.07765 o-Xylene <0.00199 UF1 mg/Kg 78 70 - 130

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 103 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 98 | | 70 - 130 |

Lab Sample ID: 880-35797-A-81-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 67021

Prep Type: Total/NA

Prep Batch: 67061

Prep Batch: 67061 RPD

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 0.08417 Benzene <0.00199 U mg/Kg 84 70 - 130 0 35 0.06025 F1 Toluene <0.00199 UF1 0.100 mg/Kg 60 70 - 130 2 35 Ethylbenzene <0.00199 UF1 0.100 0.05329 F1 mg/Kg 53 70 - 130 18 35 0.200 70 - 130 m-Xylene & p-Xylene <0.00398 UF1 0.1270 F1 mg/Kg 63 13 35 0.100 <0.00199 U F1 0.06890 F1 69 70 - 130 12 o-Xylene mg/Kg

MSD MSD

MB MB

| Surrogate | %Recovery Qualifier | Limits |
|-----------------------------|---------------------|----------|
| 4-Bromofluorobenzene (Surr) | 90 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | 70 - 130 |

Lab Sample ID: MB 880-67094/5-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 67021

Prep Type: Total/NA

Prep Batch: 67094

| Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--|--------------------|--|----------|----------------|----------------|----------|
| <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 13:29 | 11/16/23 00:55 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 13:29 | 11/16/23 00:55 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 13:29 | 11/16/23 00:55 | 1 |
| <0.00400 | U | 0.00400 | mg/Kg | | 11/15/23 13:29 | 11/16/23 00:55 | 1 |
| <0.00200 | U | 0.00200 | mg/Kg | | 11/15/23 13:29 | 11/16/23 00:55 | 1 |
| <0.00400 | U | 0.00400 | mg/Kg | | 11/15/23 13:29 | 11/16/23 00:55 | 1 |
| | <0.00200 <0.00200 <0.00200 <0.00400 <0.00200 | Result Qualifier | <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00200 U 0.00200 <0.00400 U 0.00400 <0.00200 U 0.00200 | <0.00200 | <0.00200 | <0.00200 | <0.00200 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|---------------|------------------|---------|
| 4-Bromofluorobenzene (Surr) | 114 | | 70 - 130 | 11/15/23 13:2 | 9 11/16/23 00:55 | 1 |
| 1,4-Difluorobenzene (Surr) | 119 | | 70 - 130 | 11/15/23 13:2 | 9 11/16/23 00:55 | 1 |

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

Lab Sample ID: MB 880-67028/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 67152

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed <50.0 U 50.0 mg/Kg 11/15/23 09:52 11/16/23 07:31 Gasoline Range Organics

(GRO)-C6-C10

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Prep Batch: 67028

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

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

| Lab Sample ID: MB 880-67028/1-A | Client Sample ID: Method Blank |
|---------------------------------|--------------------------------|
| Matrix: Solid | Prep Type: Total/NA |
| Analysis Batch: 67152 | Prep Batch: 67028 |

| | MB | MB | | | | | | |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 11/15/23 09:52 | 11/16/23 07:31 | 1 |
| OII Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 11/15/23 09:52 | 11/16/23 07:31 | 1 |
| | МВ | МВ | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 109 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 07:31 | 1 |
| o-Terphenyl | 124 | | 70 - 130 | | | 11/15/23 09:52 | 11/16/23 07:31 | 1 |

| Lab Sample ID: LCS 880-67 | 028/2-A | | | | | | Client | Sample | ID: Lab Conti | rol Sample |
|-----------------------------|-----------|-----------|----------|--------|-----------|-------|--------|--------|---------------|-------------|
| Matrix: Solid | | | | | | | | | Prep Type | e: Total/NA |
| Analysis Batch: 67152 | | | | | | | | | Prep Ba | tch: 67028 |
| | | | Spike | LCS | LCS | | | | %Rec | |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | | | 1000 | 1059 | | mg/Kg | | 106 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | | | 1000 | 924.3 | | mg/Kg | | 92 | 70 - 130 | |
| C10-C28) | | | | | | | | | | |
| | LCS | LCS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 97 | | 70 _ 130 | | | | | | | |

70 - 130

| Lab Sample ID: LCSD 880-67028/3-A | | | | Clier | ıt San | iple ID: | Lab Contro | I Sampl | e Dup |
|-----------------------------------|-------|--------|-----------|-------|--------|----------|------------|----------|--------|
| Matrix: Solid | | | | | | | Prep 1 | Гуре: То | tal/NA |
| Analysis Batch: 67152 | | | | | | | Prep | Batch: | 67028 |
| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics | 1000 | 1090 | | mg/Kg | | 109 | 70 - 130 | 3 | 20 |
| (GRO)-C6-C10 | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 952.9 | | mg/Kg | | 95 | 70 - 130 | 3 | 20 |
| C10-C28) | | | | | | | | | |
| | | | | | | | | | |

| | LCSD | LCSD | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 92 | | 70 - 130 |
| o-Terphenyl | 105 | | 70 - 130 |

112

| Lab Sample ID: 880-35343-A Matrix: Solid Analysis Batch: 67152 | -1-G MS | | | | | | | Client | Prep T | Matrix Spike ype: Total/NA Batch: 67028 |
|--|-----------|-----------|----------|--------|-----------|-------|---|--------|----------|---|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U F1 | 1010 | <50.5 | U F1 | mg/Kg | | 2 | 70 - 130 | |
| Diesel Range Organics (Over C10-C28) | <50.0 | U F1 | 1010 | <50.5 | U F1 | mg/Kg | | 0.3 | 70 - 130 | |
| | MS | MS | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1-Chlorooctane | 2 | S1- | 70 - 130 | | | | | | | |
| o-Terphenyl | 0.2 | S1- | 70 - 130 | | | | | | | |

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o-Terphenyl

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

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

Client Sample ID: Matrix Spike Duplicate

Lab Sample ID: 880-35343-A-1-H MSD **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 67152 Prep Batch: 67028

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U F1 | 1010 | <50.5 | U F1 | mg/Kg | | 2 | 70 - 130 | 10 | 20 |
| Diesel Range Organics (Over | <50.0 | U F1 | 1010 | <50.5 | U F1 | mg/Kg | | -0.2 | 70 - 130 | 12 | 20 |

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 2 S1-70 - 130 o-Terphenyl 0.2 S1-70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66791/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 66928

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/14/23 08:12

Lab Sample ID: LCS 880-66791/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 66928

| | Spike | LCS | LCS | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 256.5 | - | mg/Kg | | 103 | 90 - 110 | |

Lab Sample ID: LCSD 880-66791/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 66928

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 257.8 | | mg/Kg | | 103 | 90 - 110 | 1 | 20 | |

Lab Sample ID: 880-35571-A-8-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 66928

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|--------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 51.3 | | 251 | 302.3 | | ma/Ka | | 100 | 90 110 | |

Lab Sample ID: 880-35571-A-8-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 66928

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 51.3 | | 251 | 303.3 | | mg/Kg | _ | 100 | 90 - 110 | 0 | 20 |

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS

SDG: 23E-05485

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-35649-A-4-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 66928

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 7720 F1 2530 10720 F1 mg/Kg 119 90 - 110

Lab Sample ID: 880-35649-A-4-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 66928

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 7720 | F1 | 2530 | 10860 | F1 | mg/Kg | | 124 | 90 - 110 | 1 | 20 |

Lab Sample ID: MB 880-66983/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 67006

мв мв Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 11/14/23 18:25 mg/Kg

Lab Sample ID: LCS 880-66983/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 67006

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 241.8 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-66983/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 67006

| | Spike | LCSD | LUSD | | | | /ortec | | KFD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 241.8 | | mg/Kg | | 97 | 90 - 110 | 0 | 20 | |

Lab Sample ID: 880-35681-A-38-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 67006

| • | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|--------|------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 1/600 | | 4970 | 10150 | | ma/Ka | _ | 92 | 90 110 | |

Lab Sample ID: 880-35681-A-38-C MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 67006

| 7 | | | | | | | | | | | | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 14600 | | 4970 | 19140 | | mg/Kg | | 92 | 90 - 110 | 0 | 20 | |

QC Association Summary

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

GC VOA

Analysis Batch: 67021

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-5610-1 | BH 23-03 0' | Total/NA | Solid | 8021B | 67061 |
| 890-5610-2 | BH 23-03 2' | Total/NA | Solid | 8021B | 67061 |
| 890-5610-3 | BH 23-03 4' | Total/NA | Solid | 8021B | 67061 |
| 890-5610-4 | BH 23-01 0' | Total/NA | Solid | 8021B | 67061 |
| 890-5610-5 | BH 23-01 2' | Total/NA | Solid | 8021B | 67061 |
| 890-5610-6 | BH 23-08 0' | Total/NA | Solid | 8021B | 67061 |
| 890-5610-7 | BH 23-08 2' | Total/NA | Solid | 8021B | 67061 |
| 890-5610-8 | BH 23-08 4' | Total/NA | Solid | 8021B | 67061 |
| MB 880-67061/5-A | Method Blank | Total/NA | Solid | 8021B | 67061 |
| MB 880-67094/5-A | Method Blank | Total/NA | Solid | 8021B | 67094 |
| LCS 880-67061/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 67061 |
| LCSD 880-67061/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 67061 |
| 880-35797-A-81-B MS | Matrix Spike | Total/NA | Solid | 8021B | 67061 |
| 880-35797-A-81-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 67061 |

Prep Batch: 67061

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-5610-1 | BH 23-03 0' | Total/NA | Solid | 5035 | |
| 890-5610-2 | BH 23-03 2' | Total/NA | Solid | 5035 | |
| 890-5610-3 | BH 23-03 4' | Total/NA | Solid | 5035 | |
| 890-5610-4 | BH 23-01 0' | Total/NA | Solid | 5035 | |
| 890-5610-5 | BH 23-01 2' | Total/NA | Solid | 5035 | |
| 890-5610-6 | BH 23-08 0' | Total/NA | Solid | 5035 | |
| 890-5610-7 | BH 23-08 2' | Total/NA | Solid | 5035 | |
| 890-5610-8 | BH 23-08 4' | Total/NA | Solid | 5035 | |
| MB 880-67061/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-67061/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-67061/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 880-35797-A-81-B MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 880-35797-A-81-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Prep Batch: 67094

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-67094/5-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 67297

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5610-1 | BH 23-03 0' | Total/NA | Solid | Total BTEX | |
| 890-5610-2 | BH 23-03 2' | Total/NA | Solid | Total BTEX | |
| 890-5610-3 | BH 23-03 4' | Total/NA | Solid | Total BTEX | |
| 890-5610-4 | BH 23-01 0' | Total/NA | Solid | Total BTEX | |
| 890-5610-5 | BH 23-01 2' | Total/NA | Solid | Total BTEX | |
| 890-5610-6 | BH 23-08 0' | Total/NA | Solid | Total BTEX | |
| 890-5610-7 | BH 23-08 2' | Total/NA | Solid | Total BTEX | |
| 890-5610-8 | BH 23-08 4' | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 67028

Released to Imaging: 3/7/2024 2:18:00 PM

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-------------|------------|
| 890-5610-1 | BH 23-03 0' | Total/NA | Solid | 8015NM Prep | |

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QC Association Summary

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

GC Semi VOA (Continued)

Prep Batch: 67028 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-5610-2 | BH 23-03 2' | Total/NA | Solid | 8015NM Prep | |
| 890-5610-3 | BH 23-03 4' | Total/NA | Solid | 8015NM Prep | |
| 890-5610-4 | BH 23-01 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5610-5 | BH 23-01 2' | Total/NA | Solid | 8015NM Prep | |
| 890-5610-6 | BH 23-08 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5610-7 | BH 23-08 2' | Total/NA | Solid | 8015NM Prep | |
| 890-5610-8 | BH 23-08 4' | Total/NA | Solid | 8015NM Prep | |
| MB 880-67028/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-67028/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-67028/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-35343-A-1-G MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-35343-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 67152

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5610-1 | BH 23-03 0' | Total/NA | Solid | 8015B NM | 67028 |
| 890-5610-2 | BH 23-03 2' | Total/NA | Solid | 8015B NM | 67028 |
| 890-5610-3 | BH 23-03 4' | Total/NA | Solid | 8015B NM | 67028 |
| 890-5610-4 | BH 23-01 0' | Total/NA | Solid | 8015B NM | 67028 |
| 890-5610-5 | BH 23-01 2' | Total/NA | Solid | 8015B NM | 67028 |
| 890-5610-6 | BH 23-08 0' | Total/NA | Solid | 8015B NM | 67028 |
| 890-5610-7 | BH 23-08 2' | Total/NA | Solid | 8015B NM | 67028 |
| 890-5610-8 | BH 23-08 4' | Total/NA | Solid | 8015B NM | 67028 |
| MB 880-67028/1-A | Method Blank | Total/NA | Solid | 8015B NM | 67028 |
| LCS 880-67028/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 67028 |
| LCSD 880-67028/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 67028 |
| 880-35343-A-1-G MS | Matrix Spike | Total/NA | Solid | 8015B NM | 67028 |
| 880-35343-A-1-H MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 67028 |

Analysis Batch: 67310

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5610-1 | BH 23-03 0' | Total/NA | Solid | 8015 NM | |
| 890-5610-2 | BH 23-03 2' | Total/NA | Solid | 8015 NM | |
| 890-5610-3 | BH 23-03 4' | Total/NA | Solid | 8015 NM | |
| 890-5610-4 | BH 23-01 0' | Total/NA | Solid | 8015 NM | |
| 890-5610-5 | BH 23-01 2' | Total/NA | Solid | 8015 NM | |
| 890-5610-6 | BH 23-08 0' | Total/NA | Solid | 8015 NM | |
| 890-5610-7 | BH 23-08 2' | Total/NA | Solid | 8015 NM | |
| 890-5610-8 | BH 23-08 4' | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 66791

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-5610-4 | BH 23-01 0' | Soluble | Solid | DI Leach | |
| 890-5610-5 | BH 23-01 2' | Soluble | Solid | DI Leach | |
| 890-5610-6 | BH 23-08 0' | Soluble | Solid | DI Leach | |
| 890-5610-7 | BH 23-08 2' | Soluble | Solid | DI Leach | |
| 890-5610-8 | BH 23-08 4' | Soluble | Solid | DI Leach | |
| MB 880-66791/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-66791/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |

QC Association Summary

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

HPLC/IC (Continued)

Leach Batch: 66791 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-66791/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-35571-A-8-D MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-35571-A-8-E MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |
| 880-35649-A-4-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-35649-A-4-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 66928

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5610-4 | BH 23-01 0' | Soluble | Solid | 300.0 | 66791 |
| 890-5610-5 | BH 23-01 2' | Soluble | Solid | 300.0 | 66791 |
| 890-5610-6 | BH 23-08 0' | Soluble | Solid | 300.0 | 66791 |
| 890-5610-7 | BH 23-08 2' | Soluble | Solid | 300.0 | 66791 |
| 890-5610-8 | BH 23-08 4' | Soluble | Solid | 300.0 | 66791 |
| MB 880-66791/1-A | Method Blank | Soluble | Solid | 300.0 | 66791 |
| LCS 880-66791/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 66791 |
| LCSD 880-66791/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 66791 |
| 880-35571-A-8-D MS | Matrix Spike | Soluble | Solid | 300.0 | 66791 |
| 880-35571-A-8-E MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 66791 |
| 880-35649-A-4-B MS | Matrix Spike | Soluble | Solid | 300.0 | 66791 |
| 880-35649-A-4-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 66791 |

Leach Batch: 66983

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| 890-5610-1 | BH 23-03 0' | Soluble | Solid | DI Leach | |
| 890-5610-2 | BH 23-03 2' | Soluble | Solid | DI Leach | |
| 890-5610-3 | BH 23-03 4' | Soluble | Solid | DI Leach | |
| MB 880-66983/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-66983/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-66983/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-35681-A-38-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-35681-A-38-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 67006

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|--------|------------|
| 890-5610-1 | BH 23-03 0' | Soluble | Solid | 300.0 | 66983 |
| 890-5610-2 | BH 23-03 2' | Soluble | Solid | 300.0 | 66983 |
| 890-5610-3 | BH 23-03 4' | Soluble | Solid | 300.0 | 66983 |
| MB 880-66983/1-A | Method Blank | Soluble | Solid | 300.0 | 66983 |
| LCS 880-66983/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 66983 |
| LCSD 880-66983/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 66983 |
| 880-35681-A-38-B MS | Matrix Spike | Soluble | Solid | 300.0 | 66983 |
| 880-35681-A-38-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 66983 |

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Client: Vertex Job Project/Site: PLU 29 WEST BIG SINKS SI

SDG: 23E-05485

Client Sample ID: BH 23-03 0'

Lab Sample ID: 890-5610-1

Matrix: Solid

Date Collected: 11/08/23 09:00 Date Received: 11/09/23 15:44

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.99 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 15:30 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 15:30 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 14:55 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 67028 | 11/15/23 09:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67152 | 11/16/23 14:55 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 66983 | 11/14/23 12:01 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 20 | 50 mL | 50 mL | 67006 | 11/14/23 20:38 | CH | EET MID |

Client Sample ID: BH 23-03 2' Lab Sample ID: 890-5610-2

Date Collected: 11/08/23 09:05

Matrix: Solid

Date Received: 11/09/23 15:44

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 15:50 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 15:50 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 15:16 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.09 g | 10 mL | 67028 | 11/15/23 09:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67152 | 11/16/23 15:16 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.98 g | 50 mL | 66983 | 11/14/23 12:01 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 67006 | 11/14/23 20:44 | CH | EET MID |

Client Sample ID: BH 23-03 4'

Lab Sample ID: 890-5610-3

Date Collected: 11/08/23 09:10 Date Received: 11/09/23 15:44 Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.05 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 16:11 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 16:11 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 15:37 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.98 g | 10 mL | 67028 | 11/15/23 09:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67152 | 11/16/23 15:37 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 66983 | 11/14/23 12:01 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 5 | 50 mL | 50 mL | 67006 | 11/14/23 21:04 | CH | EET MID |

Client Sample ID: BH 23-01 0'

Lab Sample ID: 890-5610-4

Date Collected: 11/09/23 09:00 Date Received: 11/09/23 15:44 Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.03 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 18:02 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 18:02 | AJ | EET MID |

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/47/2022

Client: Vertex

Project/Site: PLU 29 WEST BIG SINKS

Job ID: 890-5610-1 SDG: 23E-05485

Client Sample ID: BH 23-01 0'

Date Collected: 11/09/23 09:00

Lab Sample ID: 890-5610-4

Matrix: Solid

Date Received: 11/09/23 15:44

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 15:58 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.92 g | 10 mL | 67028 | 11/15/23 09:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67152 | 11/16/23 15:58 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 66791 | 11/13/23 08:05 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 66928 | 11/14/23 10:44 | CH | EET MID |

Client Sample ID: BH 23-01

Lab Sample ID: 890-5610-5

Matrix: Solid

Date Collected: 11/09/23 09:05 Date Received: 11/09/23 15:44

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 18:22 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 18:22 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 16:19 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.90 g | 10 mL | 67028 | 11/15/23 09:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67152 | 11/16/23 16:19 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.99 g | 50 mL | 66791 | 11/13/23 08:05 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 66928 | 11/14/23 10:49 | CH | EET MID |

Client Sample ID: BH 23-08 0'

Lab Sample ID: 890-5610-6

Matrix: Solid

Date Collected: 11/09/23 09:10 Date Received: 11/09/23 15:44

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 18:42 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 18:42 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 16:40 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 67028 | 11/15/23 09:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67152 | 11/16/23 16:40 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 66791 | 11/13/23 08:05 | CH | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 66928 | 11/14/23 14:23 | CH | EET MID |

Client Sample ID: BH 23-08 2'

Lab Sample ID: 890-5610-7

Date Collected: 11/09/23 09:15 Date Received: 11/09/23 15:44

Matrix: Solid

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|----------------------|------------------|-------------------------|-----|--------|-----------------|---------------|----------------|----------------------------------|-----------|--------------------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 19:03 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 19:03 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 17:01 | SM | EET MID |
| Total/NA Total/NA | Prep Analysis | 8015NM Prep 8015B NM | | 1 | 10.03 g 1 uL | 10 mL 1 uL | 67028 67152 | 11/15/23 09:52 11/16/23 17:01 | TKC SM | EET MID EET MID |

Lab Chronicle

Client: Vertex Job ID: 890-5610-1 Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23-08 2'

Lab Sample ID: 890-5610-7 Date Collected: 11/09/23 09:15

Matrix: Solid

Date Received: 11/09/23 15:44

| | | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-------|------|----------|----------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep | Туре | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Solub | ole | Leach | DI Leach | | | 4.96 g | 50 mL | 66791 | 11/13/23 08:05 | СН | EET MID |
| Solub | ole | Analysis | 300.0 | | 10 | | | 66928 | 11/14/23 14:29 | CH | EET MID |

Client Sample ID: BH 23-08 4' Lab Sample ID: 890-5610-8

Matrix: Solid

Date Collected: 11/09/23 09:20 Date Received: 11/09/23 15:44

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 67061 | 11/15/23 11:41 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67021 | 11/16/23 19:23 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67297 | 11/16/23 19:23 | AJ | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67310 | 11/16/23 17:22 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 67028 | 11/15/23 09:52 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67152 | 11/16/23 17:22 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 66791 | 11/13/23 08:05 | СН | EET MID |
| Soluble | Analysis | 300.0 | | 1 | | | 66928 | 11/14/23 11:06 | CH | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex Job ID: 890-5610-1
Project/Site: PLU 29 WEST BIG SINKS SDG: 23E-05485

Laboratory: Eurofins Midland

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

| Authority | Progra | am | Identification Number | Expiration Date |
|--|---|---------------------------------|---|------------------------|
| Texas | NELA | Р | T104704400-23-26 | 06-30-24 |
| 0 , | • • | ut the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| for which the agency do Analysis Method | oes not offer certification. Prep Method | Matrix | Analyte | |
| 8015 NM | | Solid | Total TPH | |
| Total BTEX | | Solid | Total BTEX | |

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Method Summary

Client: Vertex

Project/Site: PLU 29 WEST BIG SINKS

Job ID: 890-5610-1 SDG: 23E-05485

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Eurofins Carlsbad

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Sample Summary

Client: Vertex

Project/Site: PLU 29 WEST BIG SINKS

Job ID: 890-5610-1

SDG: 23E-05485

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5610-1 | BH 23-03 0' | Solid | 11/08/23 09:00 | 11/09/23 15:44 | 0' |
| 890-5610-2 | BH 23-03 2' | Solid | 11/08/23 09:05 | 11/09/23 15:44 | 2' |
| 890-5610-3 | BH 23-03 4' | Solid | 11/08/23 09:10 | 11/09/23 15:44 | 4' |
| 890-5610-4 | BH 23-01 0' | Solid | 11/09/23 09:00 | 11/09/23 15:44 | 0' |
| 890-5610-5 | BH 23-01 2' | Solid | 11/09/23 09:05 | 11/09/23 15:44 | 2' |
| 890-5610-6 | BH 23-08 0' | Solid | 11/09/23 09:10 | 11/09/23 15:44 | 0' |
| 890-5610-7 | BH 23-08 2' | Solid | 11/09/23 09:15 | 11/09/23 15:44 | 2' |
| 890-5610-8 | BH 23-08 4' | Solid | 11/09/23 09:20 | 11/09/23 15:44 | 4' |

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

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| of service. Eurofins 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 Eurofins Xenco. A minimum charge of \$55.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously neg Relinquished by: (Signature) Relinquished by: (Signature) Peccive by: (Signature) Date/Time Relinquished by: (Signature) A By: (Signature) A By: (Signature) | EHAS - 043 0' S., 148/33 0' BO A + + + + BHA3 - 02 H' A AND A S. W. S. S. S. B. B. B. C. C. C. C. P. Mn. Mo. N. S. Ag TI. U. 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 C. C. C. C. P. Mn. Mo. N. S. Ag TI. U. 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 C. C. C. C. U. Pb Mn. Mo. Ni Se Ag TI. U. 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 C. C. C. C. U. Pb Mn. Mo. Ni Se Ag TI. U. Total 200.7/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be C. C. C. C. U. Pb Mn. Mo. Ni Se Ag TI. U. | IPT Temp Blank. Yes No N/A Temperature Reading Yes No N/A Temperature Reading Time Date Time Date Time Time | Project Manager: Chance Dixon Bill to: (if different) Treen Treen Address: City, State ZIP Project Name: PLM 29 West 512 512 512 512 512 512 512 512 512 512 |
|---|--|--|--|
| ature) Received by: (Signature) Date/Time | 890-5610 Chain of Custody 890-5610 Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471 | VABIS VASO 3 VASO 3 VASO BOTO CORDICACO | Www.xenco.com Page of Work Order Comments Work Order Comments |

11/17/2023

Login Sample Receipt Checklist

Client: Vertex Job Number: 890-5610-1 SDG Number: 23E-05485

Login Number: 5610 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

| 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. | N/A | Refer to Job Narrative for details. |
| 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: Vertex Job Number: 890-5610-1 SDG Number: 23E-05485

Login Number: 5610 **List Source: Eurofins Midland** List Number: 2 List Creation: 11/13/23 09:24 AM

Creator: Rodriguez, Leticia

| 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? | 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 | N/A | |

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 11/29/2023 11:53:34 AM

JOB DESCRIPTION

PLU #29 WEST BIG SINKS 23E-05485

JOB NUMBER

890-5632-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 11/29/2023 11:53:34 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

Page 2 of 24 11/29/2023 Released to Imaging: 3/7/2024 2:18:00 PM

Client: Vertex
Project/Site: PLU #29 WEST BIG SINKS

Laboratory Job ID: 890-5632-1 SDG: 23E-05485

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Definitions/Glossary

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS

SDG: 23E-05485

Qualifiers

GC VOA Qualifier

Qualifier Description F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) EPA recommended "Maximum Contaminant Level" MCL

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

Toxicity Equivalent Factor (Dioxin) TEF TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Vertex

Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

Job ID: 890-5632-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5632-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/15/2023 8:34 AM. 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 0.2°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH 23 - 13 0' (890-5632-1) and BH 23 - 13 1.5' (890-5632-2).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67568 and analytical batch 880-67637 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67741 and analytical batch 880-67809 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-5666-A-21-C). 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

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-67231 and analytical batch 880-67245 was outside the upper control limits.

Method 8015MOD NM: Batch preparation batch 880-67231 and analytical batch 880-67245 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and this test was canceled at client request. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

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: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23 - 13 0'

Lab Sample ID: 890-5632-1 Date Collected: 11/14/23 09:30

Matrix: Solid

Date Received: 11/15/23 08:34

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
|---|--|---------------------------------|--|----------------------------|----------|--|--|--------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:55 | |
| Toluene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:55 | |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:55 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:55 | |
| o-Xylene | < 0.00199 | U | 0.00199 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:55 | |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:55 | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fa |
| 4-Bromofluorobenzene (Surr) | 96 | | 70 - 130 | | | 11/27/23 11:00 | 11/28/23 11:55 | |
| 1,4-Difluorobenzene (Surr) | 71 | | 70 - 130 | | | 11/27/23 11:00 | 11/28/23 11:55 | |
| Method: TAL SOP Total BTEX - T | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/28/23 11:55 | |
| Analyte Total TPH | | Qualifier | RL 49.7 | Unit | D | Prepared | Analyzed | Dil Fa |
| Total TPH | <49.7 | U | 49.7 | mg/Kg | | | 11/17/23 22:24 | |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (CC) | | | | | |
| | | | (GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fa |
| <u> </u> | | | ` ' | <mark>Unit</mark> mg/Kg | <u>D</u> | Prepared 11/16/23 16:02 | Analyzed 11/17/23 22:24 | Dil Fa |
| Gasoline Range Organics | | | RL | | <u>D</u> | <u>.</u> | | |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | | U | RL | | <u>D</u> | <u>.</u> | | |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <49.7 <49.7 | U | RL 49.7 49.7 | mg/Kg | <u> </u> | 11/16/23 16:02 11/16/23 16:02 | 11/17/23 22:24 | |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <49.7 | U | RL 49.7 | mg/Kg | <u>D</u> | 11/16/23 16:02 | 11/17/23 22:24 | |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <49.7 <49.7 | U U | RL 49.7 49.7 | mg/Kg | <u>D</u> | 11/16/23 16:02 11/16/23 16:02 | 11/17/23 22:24 | |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <49.7 <49.7 <49.7 | U U | RL 49.7 49.7 49.7 | mg/Kg | <u>D</u> | 11/16/23 16:02 11/16/23 16:02 11/16/23 16:02 | 11/17/23 22:24 11/17/23 22:24 11/17/23 22:24 | |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane | <49.7 <49.7 <49.7 %Recovery | U U | 49.7 49.7 49.7 <i>Limits</i> | mg/Kg | <u> </u> | 11/16/23 16:02 11/16/23 16:02 11/16/23 16:02 Prepared | 11/17/23 22:24 11/17/23 22:24 11/17/23 22:24 Analyzed | Dil Fa |
| Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl | <49.7 <49.7 <49.7 <49.7 %Recovery 100 110 | U U U Qualifier | RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130 | mg/Kg | <u>D</u> | 11/16/23 16:02 11/16/23 16:02 11/16/23 16:02 Prepared 11/16/23 16:02 | 11/17/23 22:24 11/17/23 22:24 11/17/23 22:24 Analyzed 11/17/23 22:24 | Dil Fa |
| | <49.7 <49.7 <49.7 **Recovery 100 110 Chromatograp | U U U Qualifier | RL 49.7 49.7 49.7 Limits 70 - 130 70 - 130 | mg/Kg | <u>D</u> | 11/16/23 16:02 11/16/23 16:02 11/16/23 16:02 Prepared 11/16/23 16:02 | 11/17/23 22:24 11/17/23 22:24 11/17/23 22:24 Analyzed 11/17/23 22:24 | Dil Fa |

Client Sample ID: BH 23 - 13 1.5' Lab Sample ID: 890-5632-2 Matrix: Solid Date Collected: 11/14/23 09:45

Date Received: 11/15/23 08:34

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |
| Toluene | <0.00202 | U | 0.00202 | mg/Kg | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | mg/Kg | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | mg/Kg | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | mg/Kg | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | mg/Kg | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 89 | | 70 - 130 | | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 | | | 11/21/23 14:33 | 11/22/23 16:21 | 1 |

Client Sample Results

Client: Vertex Job ID: 890-5632-1
Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23 - 13 1.5'

Date Collected: 11/14/23 09:45 Date Received: 11/15/23 08:34 Lab Sample ID: 890-5632-2

Matrix: Solid

| Method: TAL SOP Total BTEX - 1 | | | DI. | 1114 | _ | D | A ll | D:: F |
|-----------------------------------|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00404 | U | 0.00404 | mg/Kg | | | 11/22/23 16:21 | 1 |
| Method: SW846 8015 NM - Diese | el Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <49.9 | U | 49.9 | mg/Kg | | | 11/17/23 22:46 | 1 |
| Method: SW846 8015B NM - Dies | sel Range Orga | nics (DRO) | (GC) | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics | <49.9 | U | 49.9 | mg/Kg | | 11/16/23 16:02 | 11/17/23 22:46 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <49.9 | U | 49.9 | mg/Kg | | 11/16/23 16:02 | 11/17/23 22:46 | 1 |
| C10-C28) | | | | | | | | |
| OII Range Organics (Over C28-C36) | <49.9 | U | 49.9 | mg/Kg | | 11/16/23 16:02 | 11/17/23 22:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 100 | · | 70 - 130 | | | 11/16/23 16:02 | 11/17/23 22:46 | 1 |
| o-Terphenyl | 105 | | 70 - 130 | | | 11/16/23 16:02 | 11/17/23 22:46 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| Analyte | | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | 51.6 | | 5.05 | mg/Kg | | | 11/17/23 13:02 | |

Surrogate Summary

 Client: Vertex
 Job ID: 890-5632-1

 Project/Site: PLU #29 WEST BIG SINKS
 SDG: 23E-05485

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Accep |
|------------------------|------------------------|----------|----------|-----------------------------------|
| | | BFB1 | DFBZ1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-5632-1 | BH 23 - 13 0' | 96 | 71 | |
| 890-5632-2 | BH 23 - 13 1.5' | 89 | 77 | |
| 890-5632-A-1-F MS | 890-5632-A-1-F MS | 105 | 106 | |
| 890-5632-A-1-G MSD | 890-5632-A-1-G MSD | 103 | 103 | |
| 890-5666-A-21-A MS | Matrix Spike | 90 | 84 | |
| 890-5666-A-21-B MSD | Matrix Spike Duplicate | 123 | 101 | |
| LCS 880-67568/1-A | Lab Control Sample | 104 | 104 | |
| LCS 880-67741/1-A | Lab Control Sample | 109 | 100 | |
| LCSD 880-67568/2-A | Lab Control Sample Dup | 102 | 105 | |
| LCSD 880-67741/2-A | Lab Control Sample Dup | 113 | 100 | |
| MB 880-67568/5-A | Method Blank | 71 | 88 | |
| MB 880-67741/5-A | Method Blank | 79 | 84 | |
| 0 | | | | |
| Surrogate Legend | (0) | | | |
| BFB = 4-Bromofluorober | izene (Surr) | | | |

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

Matrix: Solid Prep Type: Total/NA

| | | | | Percent Surrogate Recovery (Accept |
|----------------------|------------------------|----------|----------|------------------------------------|
| | | 1001 | OTPH1 | |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-5632-1 | BH 23 - 13 0' | 100 | 110 | |
| 890-5632-2 | BH 23 - 13 1.5' | 100 | 105 | |
| LCS 880-67231/2-A | Lab Control Sample | 93 | 107 | |
| LCSD 880-67231/3-A | Lab Control Sample Dup | 90 | 103 | |
| MB 880-67231/1-A | Method Blank | 115 | 133 S1+ | |
| Surrogate Legend | | | | |
| 1CO = 1-Chlorooctane | | | | |
| OTPH = o-Terphenyl | | | | |

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 | | | |
| 890-5635-A-5-C MS | Matrix Spike | | | |
| 890-5635-A-5-D MSD | Matrix Spike Duplicate | | | |
| Surrogate Legend | | | | |
| 1CO = 1-Chlorooctane | | | | |
| OTPH = o-Terphenyl | | | | |

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 Client: Vertex
 Job ID: 890-5632-1

 Project/Site: PLU #29 WEST BIG SINKS
 SDG: 23E-05485

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67568/5-A

Matrix: Solid Analysis Batch: 67637 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67568

| | MB | MB | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/21/23 14:33 | 11/22/23 15:38 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/21/23 14:33 | 11/22/23 15:38 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/21/23 14:33 | 11/22/23 15:38 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/21/23 14:33 | 11/22/23 15:38 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/21/23 14:33 | 11/22/23 15:38 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/21/23 14:33 | 11/22/23 15:38 | 1 |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Pro | epared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|-----------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 71 | | 70 - 130 | 11/21 | /23 14:33 | 11/22/23 15:38 | 1 |
| 1,4-Difluorobenzene (Surr) | 88 | | 70 - 130 | 11/21 | /23 14:33 | 11/22/23 15:38 | 1 |

Lab Sample ID: LCS 880-67568/1-A

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67568

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.08403 | | mg/Kg | | 84 | 70 - 130 | |
| Toluene | 0.100 | 0.08136 | | mg/Kg | | 81 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.08783 | | mg/Kg | | 88 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1813 | | mg/Kg | | 91 | 70 - 130 | |
| o-Xylene | 0.100 | 0.08648 | | mg/Kg | | 86 | 70 - 130 | |
| | | | | | | | | |

LCS LCS

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

Lab Sample ID: LCSD 880-67568/2-A

Matrix: Solid

Analysis Batch: 67637

Prep Type: Total/NA

Prep Batch: 67568

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.08384 | | mg/Kg | | 84 | 70 - 130 | 0 | 35 | |
| Toluene | 0.100 | 0.07787 | | mg/Kg | | 78 | 70 - 130 | 4 | 35 | |
| Ethylbenzene | 0.100 | 0.08232 | | mg/Kg | | 82 | 70 - 130 | 6 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.1701 | | mg/Kg | | 85 | 70 - 130 | 6 | 35 | |
| o-Xylene | 0.100 | 0.08106 | | mg/Kg | | 81 | 70 - 130 | 6 | 35 | |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 105 | | 70 - 130 |

Lab Sample ID: 890-5632-A-1-F MS

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: 890-5632-A-1-F MS

Prep Type: Total/NA

Prep Batch: 67568

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------|--------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.0264 | F1 | 0.0990 | 0.08324 | F1 | mg/Kg | | 57 | 70 - 130 | |
| Toluene | 0.0663 | F1 | 0.0990 | 0.07497 | F1 | mg/Kg | | 9 | 70 - 130 | |

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Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

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

Lab Sample ID: 890-5632-A-1-F MS

Lab Sample ID: 890-5632-A-1-G MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 67637

Client Sample ID: 890-5632-A-1-F MS

Prep Type: Total/NA

Prep Batch: 67568

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene 0.0201 F1 0.0990 0.07512 F1 56 70 - 130 mg/Kg m-Xylene & p-Xylene 0.0523 F1 0.198 0.1535 F1 mg/Kg 51 70 - 130 0.0990 o-Xylene 0.0181 F1 0.07435 F1 57 70 - 130 mg/Kg

MS MS

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

Client Sample ID: 890-5632-A-1-G MSD

Prep Type: Total/NA

Prep Batch: 67568

Analysis Batch: 67637 MSD MSD Sample Sample Spike RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.101 0.07268 F1 Benzene 0.0264 F1 mg/Kg 46 70 - 130 14 35 -2 Toluene 0.0663 F1 0.101 0.06436 F1 mg/Kg 70 - 130 15 35 Ethylbenzene 0.0201 F1 0.101 0.06294 F1 mg/Kg 43 70 - 130 18 35 0.202 0.1282 F1 38 70 - 130 35 m-Xylene & p-Xylene 0.0523 F1 mg/Kg 18 0.0181 F1 0.101 0.06264 F1 44 70 - 130 o-Xylene mg/Kg 17

MSD MSD

| Surrogate | %Recovery Qu | alifier Limits |
|-----------------------------|--------------|----------------|
| 4-Bromofluorobenzene (Surr) | 103 | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 103 | 70 - 130 |

Lab Sample ID: MB 880-67741/5-A

Matrix: Solid

Analysis Batch: 67809

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67741

MB MB

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:13 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:13 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:13 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:13 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:13 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/27/23 11:00 | 11/28/23 11:13 | 1 |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|---------------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 79 | 70 - 130 | 11/27/23 11:00 | 11/28/23 11:13 | 1 |
| 1 4-Difluorobenzene (Surr) | 84 | 70 130 | 11/27/23 11:00 | 11/28/23 11:13 | 1 |

Lab Sample ID: LCS 880-67741/1-A

Matrix: Solid

Analysis Batch: 67809

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67741

| | Spike | LCS | LCS | | | | %Rec |
|---------------------|-------|---------|-----------|-------|---|------|----------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Benzene | 0.100 | 0.08598 | | mg/Kg | | 86 | 70 - 130 |
| Toluene | 0.100 | 0.08396 | | mg/Kg | | 84 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.09073 | | mg/Kg | | 91 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.1862 | | mg/Kg | | 93 | 70 - 130 |

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

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

Lab Sample ID: LCS 880-67741/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 67809 Prep Batch: 67741 LCS LCS

Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits D 0.100 0.09278 93 70 - 130 o-Xylene mg/Kg

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 100

Lab Sample ID: LCSD 880-67741/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 67809** Prep Batch: 67741

Spike LCSD LCSD RPD RPD Analyte Added Result Qualifier Unit %Rec Limits Limit D Benzene 0.100 0.07910 mg/Kg 79 70 - 130 8 35 Toluene 0.100 0.07830 mg/Kg 78 70 - 130 35 Ethylbenzene 0.100 0.08506 mg/Kg 85 70 - 130 35 35 m-Xylene & p-Xylene 0.200 0.1736 mg/Kg 87 70 - 130 0.100 0.08534 85 70 - 130 35 o-Xylene mg/Kg

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 113 70 - 130 1,4-Difluorobenzene (Surr) 100 70 - 130

Lab Sample ID: 890-5666-A-21-A MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 67809

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Benzene < 0.00199 0.0996 0.04428 F1 mg/Kg 28 70 - 130 Toluene < 0.00199 0.0996 0.04536 F1 mg/Kg -52 70 - 130 Ethylbenzene < 0.00199 0.0996 0.04729 F1 mg/Kg 23 70 - 130 m-Xylene & p-Xylene <0.00398 0.199 0.08896 F1 mg/Kg 13 70 - 130 o-Xylene < 0.00199 0.0996 0.04647 F1 mg/Kg 18 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 90 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 84

Lab Sample ID: 890-5666-A-21-B MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 67809 Prep Batch: 67741

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | <0.00199 | U F1 F2 | 0.0990 | 0.06350 | F2 F1 | mg/Kg | | 64 | 70 - 130 | 36 | 35 |
| Toluene | <0.00199 | U F1 | 0.0990 | 0.06178 | F1 | mg/Kg | | 62 | 70 - 130 | 31 | 35 |
| Ethylbenzene | <0.00199 | U F1 F2 | 0.0990 | 0.07379 | F2 | mg/Kg | | 75 | 70 - 130 | 44 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U F1 F2 | 0.198 | 0.1495 | F2 | mg/Kg | | 75 | 70 - 130 | 51 | 35 |
| o-Xylene | <0.00199 | U F1 F2 | 0.0990 | 0.07229 | F2 | mg/Kg | | 73 | 70 - 130 | 43 | 35 |

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Prep Batch: 67741

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

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

Lab Sample ID: 890-5666-A-21-B MSD

Matrix: Solid

Analysis Batch: 67809

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 67741

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 123 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

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

Lab Sample ID: MB 880-67231/1-A

Matrix: Solid

Analysis Batch: 67245

Client Sample ID: Method Blank

11/17/23 18:53

Prep Type: Total/NA

Prep Batch: 67231

Dil Fac

Analyte Result Qualifier RL Unit Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 11/16/23 16:02 11/17/23 18:53 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/16/23 16:02 11/17/23 18:53 C10-C28)

11/16/23 16:02 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg

MB MB

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 115 | | 70 - 130 | 11/16/23 16:02 | 11/17/23 18:53 | 1 |
| o-Terphenyl | 133 | S1+ | 70 - 130 | 11/16/23 16:02 | 11/17/23 18:53 | 1 |

Lab Sample ID: LCS 880-67231/2-A

Matrix: Solid

Analysis Batch: 67245

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67231

| | Spike | LCS | LCS | | | | %Rec | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 1023 | | mg/Kg | | 102 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 877.8 | | mg/Kg | | 88 | 70 - 130 | |
| C10-C28) | | | | | | | | |

LCS LCS

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 93 | 70 - 130 |
| o-Terphenyl | 107 | 70 - 130 |

Lab Sample ID: LCSD 880-67231/3-A

Matrix: Solid

Analysis Batch: 67245

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67231

LCSD LCSD Spike %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 1068 107 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 937.0 94 70 - 130 20 mg/Kg

C10-C28)

LCSD LCSD

| Surrogate | %Recovery Qualifier | Limits |
|----------------|---------------------|----------|
| 1-Chlorooctane | 90 | 70 - 130 |
| o-Terphenyl | 103 | 70 - 130 |

Lab Sample ID: 890-5635-A-5-C MS

QC Sample Results

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 67231

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1010 1185 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1010 895.9 mg/Kg

C10-C28)

Matrix: Solid

Analysis Batch: 67245

MS MS

Surrogate %Recovery Qualifier Limits

1-Chlorooctane

o-Terphenyl

Lab Sample ID: 890-5635-A-5-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 67245** Prep Batch: 67231

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1010 Gasoline Range Organics 1209 mg/Kg

(GRO)-C6-C10 Diesel Range Organics (Over 1010 913.5 mg/Kg

C10-C28)

MSD MSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane

o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67161/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 67234

MB MB

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 11/17/23 11:43 mg/Kg

Lab Sample ID: LCS 880-67161/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 67234

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 248.7 99 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-67161/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 67234

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Chloride 250 100 249.5 mg/Kg 90 _ 110 20

Eurofins Carlsbad

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS

SDG: 23E-05485

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-5631-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 67234

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits

Chloride 46.0 249 292.6 mg/Kg 99 90 - 110

Lab Sample ID: 890-5631-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 67234 Sample Sample Spike MSD MSD %Rec RPD

Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 46.0 249 294.0 mg/Kg 100 90 - 110 0 20

QC Association Summary

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

GC VOA

Prep Batch: 67568

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5632-2 | BH 23 - 13 1.5' | Total/NA | Solid | 5035 | |
| MB 880-67568/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-67568/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-67568/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5632-A-1-F MS | 890-5632-A-1-F MS | Total/NA | Solid | 5035 | |
| 890-5632-A-1-G MSD | 890-5632-A-1-G MSD | Total/NA | Solid | 5035 | |

Analysis Batch: 67637

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5632-2 | BH 23 - 13 1.5' | Total/NA | Solid | 8021B | 67568 |
| MB 880-67568/5-A | Method Blank | Total/NA | Solid | 8021B | 67568 |
| LCS 880-67568/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 67568 |
| LCSD 880-67568/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 67568 |
| 890-5632-A-1-F MS | 890-5632-A-1-F MS | Total/NA | Solid | 8021B | 67568 |
| 890-5632-A-1-G MSD | 890-5632-A-1-G MSD | Total/NA | Solid | 8021B | 67568 |

Prep Batch: 67741

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5632-1 | BH 23 - 13 0' | Total/NA | Solid | 5035 | <u> </u> |
| MB 880-67741/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-67741/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-67741/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5666-A-21-A MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-5666-A-21-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 67764

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5632-1 | BH 23 - 13 0' | Total/NA | Solid | Total BTEX | |
| 890-5632-2 | BH 23 - 13 1.5' | Total/NA | Solid | Total BTEX | |

Analysis Batch: 67809

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5632-1 | BH 23 - 13 0' | Total/NA | Solid | 8021B | 67741 |
| MB 880-67741/5-A | Method Blank | Total/NA | Solid | 8021B | 67741 |
| LCS 880-67741/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 67741 |
| LCSD 880-67741/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 67741 |
| 890-5666-A-21-A MS | Matrix Spike | Total/NA | Solid | 8021B | 67741 |
| 890-5666-A-21-B MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 67741 |

GC Semi VOA

Prep Batch: 67231

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| 890-5632-1 | BH 23 - 13 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5632-2 | BH 23 - 13 1.5' | Total/NA | Solid | 8015NM Prep | |
| MB 880-67231/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-67231/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-67231/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-5635-A-5-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-5635-A-5-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

QC Association Summary

Client: Vertex Job ID: 890-5632-1
Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

GC Semi VOA

Analysis Batch: 67245

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5632-1 | BH 23 - 13 0' | Total/NA | Solid | 8015B NM | 67231 |
| 890-5632-2 | BH 23 - 13 1.5' | Total/NA | Solid | 8015B NM | 67231 |
| MB 880-67231/1-A | Method Blank | Total/NA | Solid | 8015B NM | 67231 |
| LCS 880-67231/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 67231 |
| LCSD 880-67231/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 67231 |
| 890-5635-A-5-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 67231 |
| 890-5635-A-5-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 67231 |

Analysis Batch: 67446

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5632-1 | BH 23 - 13 0' | Total/NA | Solid | 8015 NM | |
| 890-5632-2 | BH 23 - 13 1.5' | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 67161

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-5632-1 | BH 23 - 13 0' | Soluble | Solid | DI Leach | |
| 890-5632-2 | BH 23 - 13 1.5' | Soluble | Solid | DI Leach | |
| MB 880-67161/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-67161/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-67161/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-5631-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-5631-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 67234

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5632-1 | BH 23 - 13 0' | Soluble | Solid | 300.0 | 67161 |
| 890-5632-2 | BH 23 - 13 1.5' | Soluble | Solid | 300.0 | 67161 |
| MB 880-67161/1-A | Method Blank | Soluble | Solid | 300.0 | 67161 |
| LCS 880-67161/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 67161 |
| LCSD 880-67161/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 67161 |
| 890-5631-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 67161 |
| 890-5631-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 67161 |

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Lab Chronicle

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

Client Sample ID: BH 23 - 13 0'

Date Collected: 11/14/23 09:30 Date Received: 11/15/23 08:34

Lab Sample ID: 890-5632-1

Lab Sample ID: 890-5632-2

Matrix: Solid

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 67741 11/27/23 11:00 MNR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 67809 11/28/23 11:55 MNR **EET MID** Total/NA Analysis Total BTEX 67764 11/28/23 11:55 SM EET MID Total/NA 8015 NM 11/17/23 22:24 **EET MID** Analysis 1 67446 SM Total/NA 8015NM Prep 67231 11/16/23 16:02 TKC EET MID Prep 10.06 g 10 mL Total/NA Analysis 8015B NM 1 uL 1 uL 67245 11/17/23 22:24 SM **EET MID** 5.03 g Soluble DI Leach 50 mL 67161 11/16/23 11:00 SA Leach **EET MID** Soluble Analysis 300.0 50 mL 50 mL 67234 11/17/23 12:57 SMC **EET MID**

Client Sample ID: BH 23 - 13 1.5'

Date Collected: 11/14/23 09:45

Date Received: 11/15/23 08:34

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 67568 | 11/21/23 14:33 | EL | EET MIC |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67637 | 11/22/23 16:21 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 67764 | 11/22/23 16:21 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 67446 | 11/17/23 22:46 | SM | EET MIC |
| Total/NA | Prep | 8015NM Prep | | | 10.02 g | 10 mL | 67231 | 11/16/23 16:02 | TKC | EET MIC |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67245 | 11/17/23 22:46 | SM | EET MIC |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 67161 | 11/16/23 11:00 | SA | EET MIC |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 67234 | 11/17/23 13:02 | SMC | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

Client: Vertex Job ID: 890-5632-1
Project/Site: PLU #29 WEST BIG SINKS SDG: 23E-05485

Laboratory: Eurofins Midland

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

| Authority | Progr | am | Identification Number | Expiration Date |
|-----------------|---------------------------------|---------------------------------|---|------------------------|
| Texas | NELA | Р | T104704400-23-26 | 06-30-24 |
| , | are included in this report, bu | ut the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 8015 NM | | Solid | Total TPH | |
| Total BTEX | | Solid | Total BTEX | |

Method Summary

Client: Vertex Job ID: 890-5632-1 Project/Site: PLU #29 WEST BIG SINKS

SDG: 23E-05485

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Sample Summary

Client: Vertex

Project/Site: PLU #29 WEST BIG SINKS

Job ID: 890-5632-1

SDG: 23E-05485

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 890-5632-1 | BH 23 - 13 0' | Solid | 11/14/23 09:30 | 11/15/23 08:34 |
| 890-5632-2 | BH 23 - 13 1.5' | Solid | 11/14/23 09:45 | 11/15/23 08:34 |

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5632 Work Order No:

Date/Time

Received by: (Signature)

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

eurofins 😽

| | | | | | | _www.xenco.com Page_ | Page | of |
|-------------------|-----------------------------------|------------|-------------------------|-------------------|------------------|--|--------------------|----------------------------|
| Project Manager: | (hause Divon | Divor. | Bill to: (if different) | in formet breen | See 1 | Work Order Comments | omments | |
| Company Name: | Vertex | | | | | Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ | wnfields RRC | ☐ Superfund ☐ |
| Address: | | | Address: | | | State of Project: | | |
| City, State ZIP: | | | City, State ZIP: | | | Reporting: Level III PST/UST TRRP Level IV | PST/UST TRR | □ Level IV □ |
| Phone: | | | Email: Cdix | cdixon@vertex, ca | | Deliverables: EDD ADaP | ADaPT Other: | |
| Project Name: | PLU 29 West Bic Sinks Turn Around | it Bickink | S Turn Around | | ANALYSIS REQUEST | EST | Preservative Codes | ve Codes |
| Project Number: | 23E-05485 | 185 | Routine Rush | Pres. Code | | | None: NO | DI Water: H ₂ O |
| Project Location: | | | Due Date: | | | | , 00 | MeOH: Me |
| | | | | | | | ر | NH. CNH |

| Project Name | DLIA 29 Wet Birlinks | Richin | K S Turn Around | | ANALYSIS REQUEST | Preservative Codes |
|--------------------------|----------------------|----------------------|---|--------------------------|---|-------------------------------------|
| er: | 23E-05485 | 5 | 0 | Pres. Code | | None: NO DI Water: H ₂ O |
| Project Location: | | | Due Date: | | | Cool MeOH: Me |
| | Aunter Herr | ¥ | TAT starts the day received by the lab, if received by 4:30pm | Vi | | C HNO 3: HN :H2 NAOH: NA |
| SAMPLE RECEIPT | Temp Blank: | Yes | Wet Ice: Yes No | eters /// | | 4: HP |
| Samples Received Intact: | | hermometer ID: | erID: WMD | N | 890-5632 Chain of Custody | O 4: NABIS |
| Cooler Custody Seals: | Yes No NA | Correction Factor: | actor: '0.2 | P ₉ | | O3:NaSO 3 |
| Sample Custody Seals: | Yes No N/A | Temperature Reading: | e Reading: 0.4 | H | | Zn Acetate+NaOH: Zn |
| Total Containers: | | Corrected Te | Corrected Temperature: $ O\cdot \mathcal{J} $ | | | NaOH+Ascorbic Acid: SAPC |
| | | Date | - Im- | | | 1 |
| Sample Identification | Matrix | Sampled | Depth | Cont | | sample Comments |
| RH23-13 | (S) So;13 | 33/20/22 | 9.30 | ナメメ | | |
| 13 | 1,5' | 4 | 1 1 | メダメ | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Total 200.7 / 6010 | 200.8 / 6020: | 88 | 8RCRA 13PPM Texas 11 | Al Sb As Ba Be B Cd Ca C | AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn | Sr Tl Sn U V Zn |

Hg: 1631 / 245.1 / 7470 / 7471 TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U kotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 Circle Method(s) and Metal(s) to be analyzed

um charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated

| ute 2lin (3) 11118 11-14 1581 | hed by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | |
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Relinquis

890-5632 Chain of Custody

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Environment Testing

eurofins

Xenco

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334. EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296.

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

| Preservative Codes | EST | ANALYSIS REOUEST | Around | Bic Sinks Tur | PLU 29 Wet Bickinks Tumber | Project Name: |
|------------------------|--|--|-------------------------|---------------|----------------------------|------------------|
| ADaPT ☐ Other | Deliverables. EDD | cdixon@vertex.ca | | Email. | | Phone: |
| ST/UST TRRP Level IV | Reporting: Level II Level III PST/UST TRRP Level IV | | City, State ZIP | | | City, State ZIP |
| | State of Project: | | Address. | | | Address: |
| vnfields | Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ | XTO | Company Name | | Vertex | Company Name: |
| mments | Work Order Comments | Garret Green | Bill to: (if different) | hixon | Chance Divon | Project Manager: |
| 10 | | THE PARTY OF THE P | | | | |

| Project Name: | DIM 29 Wet Riverile Tim Around | 4 R.C. | K Turn Ar | puio | | | | A A | ANA! YSIS BEO! IEST | FOLIFCE | | | ď | Presentative Codes | |
|--|--|-------------------|--------------------------------|----------------|----------|---------|-------------|---------------|---------------------|----------|-------|------------------------|--|---|----|
| ē. | 23E-05485 | 485 | Routine | Rush | Code S | | | | | | | | None NO | VO DI Water H ₂ O | o, |
| Project Location | | | Due Date: | | | | | | | | | | Cool: Cool | | |
| Sampler's Name | Hunder Y | Hein | TAT starts the day received by | sy received by | | | | | | | | | HCL. HC | | |
| PO #: | | | the lab, if received by 4:30pm | ed by 4:30pm | <u> </u> | V | _ | | | | | | H ₂ SO ₄ H ₂ | H ₂ NaOH·Na | |
| SAMPLE RECEIPT | Temp Blank. | Yes No | Wet Ice: | Yes No | eters | TIV | NY, | | | | | | H ₃ PO ₄ . HP | | |
| Samples Received Intact: | \geq | Thermometer ID: | | Sur | men | T N | N | | | | | | NaHSO | NaHSO 4. NABIS | |
| Cooler Custody Seals. | Yes No NA | Correction Factor | actor. | 0.00 | | , | / | | | | | | Na ₂ S ₂ O | Na ₂ S ₂ O ₃ NaSO ₃ | |
| Sample Custody Seals. | Yes Ng N/A | | ing: | 0.4 | | を こ | | | | | | | Zn Acet | Zn Acetate+NaOH. Zn | |
| Total Containers: | <u>ノ</u> | Corrected T | Corrected Temperature: | 2.3 | V | | (| | | | | - | NaOH+/ | NaOH+Ascorbic Acid: SAPC | |
| | | Stage Company | Time I | Sealer Sealer | ۲ | 2 | _ | | | | | | | | |
| Sample Identification | fication Matrix | N, | _ | | Cont | |) | | - | | | | Sa | Sample Comments | |
| RH23-13 | 3, | 50,134/20/28 | 02.6 | 71 | | 7 | メ | | | | | | | | 1 |
| 12423-23 | 1,21 | > | Į | 7 | 7 | 5 | × | | | | | | | | Τ |
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| | | | | | | | H | | $\ \cdot\ $ | | | | | | |
| Total 200.7 / 6010 | 0 200.8 / 6020: | 8 | 8RCRA 13PPM | H | I Sb As | Ba Be E | S Cd Ca | رد ده د اد | J Fe Pb | Mg Mn | Mo Ni | Se Ag SiO ₂ | Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn | J V Zn | |
| Circle Method(s) a | Circle Method(s) and Metal(s) to be analyzed | nalyzed | TCLP / SPLP | | RA Sb / | s Ba Be | Cd Cr C | o Cu Pb | Mn Mo | Ni Se Aç | JTIU | Hg: 1631 | Hg: 1631 / 245.1 / 7470 / 7471 | /7471 | |

service. Eurofins 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

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Ṣignature) | Received by: (Signature) | Date/Time |
|---|--|--|------------------------------|--------------------------|--------------------------------------|
| 1 Monte He | XVIII | 11-14 | 11587 | | |
| S to the second | As design of the second of the | and the state of t | 4 , | च्यामा राष्ट्राच्या | - 1000 · 1000 · 1 |
| ůn. | | | 9 | | |
| | | | | Œ | Revised Date: 08/25/2020 Rev. 2020.2 |

11/29/2023

Login Sample Receipt Checklist

Client: Vertex Job Number: 890-5632-1 SDG Number: 23E-05485

Login Number: 5632 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

| 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. | N/A | Refer to Job Narrative for details. |
| 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: Vertex Job Number: 890-5632-1 SDG Number: 23E-05485

List Source: Eurofins Midland
List Number: 2
List Creation: 11/16/23 11:01 AM

Creator: Rodriguez, Leticia

| 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? | 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 | N/A | |

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 11/30/2023 2:42:17 PM

JOB DESCRIPTION

PLU 29 BIG SINKS CTB 23E-05935

JOB NUMBER

890-5683-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 11/30/2023 2:42:17 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies Page 2 of 26

Client: Vertex Laboratory Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB

SDG: 23E-05935

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Definitions/Glossary

Client: Vertex Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB

SDG: 23E-05935

Qualifiers

GC VOA

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

*1 LCS/LCSD RPD exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

Qualifier Description

HPLC/IC

Qualifier

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 Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

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) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL ML Minimum Level (Dioxin) MPN Most Probable Number MOI 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 **Practical Quantitation Limit PQL**

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: Vertex

Project/Site: PLU 29 BIG SINKS CTB

Job ID: 890-5683-1

SDG: 23E-05935

Job ID: 890-5683-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5683-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/27/2023 3:55 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 -0.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH 23 -14 0' (890-5683-1), BH 23 -14 2' (890-5683-2), BH 23 -15 0' (890-5683-3) and BH 23 -15 2' (890-5683-4).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-67907 and analytical batch 880-67899 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-67907 and analytical batch 880-67899 was outside the upper control limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-5669-A-1-G). 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

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-67878 and analytical batch 880-67889 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: BH 23 -14 2' (890-5683-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The method blank for preparation batch 880-67878 and analytical batch 880-67889 contained Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-67878 and analytical batch 880-67889 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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

HPLC/IC

Case Narrative

 Client: Vertex
 Job ID: 890-5683-1

 Project/Site: PLU 29 BIG SINKS CTB
 SDG: 23E-05935

Job ID: 890-5683-1 (Continued)

Laboratory: Eurofins Carlsbad (Continued)

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

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Lab Sample ID: 890-5683-1

Client: Vertex

Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB SDG: 23E-05935

Client Sample ID: BH 23 -14 0'

Date Collected: 11/21/23 12:00 Date Received: 11/27/23 15:55

Sample Depth: 0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|--|---------------------------------------|-------------------------------|----------|---|--|---------------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 130 | | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| 1,4-Difluorobenzene (Surr) | 119 | | 70 - 130 | | | 11/29/23 10:24 | 11/29/23 23:40 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | |
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/29/23 23:40 | 1 |
| Total BTEX Method: SW846 8015 NM - Diese Analyte | l Range Organ | | | mg/Kg Unit | D | Prepared | 11/29/23 23:40 Analyzed | 1 Dil Fac |
| : Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | <u>D</u> | Prepared | | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH | Range Organ Result <50.3 | ics (DRO) (Gualifier | RL 50.3 | Unit | <u> </u> | Prepared | Analyzed | |
| Method: SW846 8015 NM - Diese Analyte | Range Organ Result <50.3 sel Range Organ | ics (DRO) (Gualifier | RL 50.3 | Unit | <u>D</u> | Prepared Prepared | Analyzed | |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics | Range Organ Result <50.3 sel Range Organ | Qualifier Unics (DRO) Qualifier | RL 50.3 | Unit mg/Kg | <u> </u> | | Analyzed 11/29/23 21:58 | 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | Range Organ Result <50.3 sel Range Organ Result | ics (DRO) (Qualifier U nics (DRO) Qualifier U *1 | GC) RL 50.3 (GC) RL | Unit mg/Kg | <u> </u> | Prepared | Analyzed 11/29/23 21:58 Analyzed | 1 Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result sel Range Organ Result <50.3 Result <50.3 <50.3 | cos (DRO) (Control of the control of | GC) RL 50.3 (GC) RL 50.3 50.3 | Unit mg/Kg Unit mg/Kg mg/Kg | <u> </u> | Prepared 11/29/23 13:43 11/29/23 13:43 | Analyzed 11/29/23 21:58 Analyzed 11/29/23 21:58 11/29/23 21:58 | 1 Dil Fac 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 | Result | cos (DRO) (Control of the control of | (GC) RL 50.3 (GC) RL 50.3 | Unit mg/Kg Unit mg/Kg | <u> </u> | Prepared 11/29/23 13:43 | Analyzed 11/29/23 21:58 Analyzed 11/29/23 21:58 | Dil Fac |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | Result sel Range Organ Result <50.3 Result <50.3 <50.3 | cos (DRO) (Control of the control of | GC) RL 50.3 (GC) RL 50.3 50.3 | Unit mg/Kg Unit mg/Kg mg/Kg | <u> </u> | Prepared 11/29/23 13:43 11/29/23 13:43 | Analyzed 11/29/23 21:58 Analyzed 11/29/23 21:58 11/29/23 21:58 | 1 Dil Fac 1 |
| Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | Result | cos (DRO) (Control of the control of | GC) RL 50.3 (GC) RL 50.3 50.3 50.3 | Unit mg/Kg Unit mg/Kg mg/Kg | <u> </u> | Prepared 11/29/23 13:43 11/29/23 13:43 11/29/23 13:43 | Analyzed 11/29/23 21:58 Analyzed 11/29/23 21:58 11/29/23 21:58 11/29/23 21:58 | 1 Dil Fac 1 1 |

Client Sample ID: BH 23 -14 2'

Date Collected: 11/21/23 12:05 Date Received: 11/27/23 15:55

Sample Depth: 2'

Analyte

Chloride

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:00 | 1 |
| Toluene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:00 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:00 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:00 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:00 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | | | 11/29/23 10:24 | 11/30/23 00:00 | 1 |

RL

5.05

Unit

mg/Kg

D

Prepared

Analyzed

11/30/23 00:38

Lab Sample ID: 890-5683-2

Dil Fac

Matrix: Solid

Result Qualifier

5.07

Lab Sample ID: 890-5683-2

Lab Sample ID: 890-5683-3

Matrix: Solid

Client Sample Results

 Client: Vertex
 Job ID: 890-5683-1

 Project/Site: PLU 29 BIG SINKS CTB
 SDG: 23E-05935

Client Sample ID: BH 23 -14 2'

Date Collected: 11/21/23 12:05 Date Received: 11/27/23 15:55

Sample Depth: 2'

| Method: SW846 8021B - | Volatile Organic | Compounds | (GC) | (Continued) | |
|-----------------------|------------------|-----------|------|-------------|--|
| | | | | | |

| Surrogate | %Recovery Qualific | er Limits | Prepared | Analyzed | Dil Fac |
|----------------------------|--------------------|-----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 120 | 70 - 130 | 11/29/23 10:24 | 11/30/23 00:00 | 1 |

Method: TAL SOP Total BTEX - Total BTEX Calculation

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U | 0.00398 | mg/Kg | | | 11/30/23 00:00 | 1 |

| Method: SW846 8015 NM | - Diesal Range | Organice | (DRO) | (CC) | ï |
|----------------------------|----------------|----------|--------|------|---|
| MICHICA. STACTO CO 12 IAIN | - Diesei Kange | Organics | (DIXO) | | , |

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.4 | U | 50.4 | mg/Kg | | | 11/29/23 22:20 | 1 |

| Method: SW846 8015B NM - Diesel Ran | an Organice (DPO) (CC) | |
|---------------------------------------|------------------------|--|
| Method. 344040 00 13D MM - Diesei Kah | ge Organics (DNO) (GC) | |
| | | |

| | | | (/ | | | | | |
|---|-----------|-----------|--------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline Range Organics (GRO)-C6-C10 | <50.4 | U *1 | 50.4 | mg/Kg | | 11/29/23 13:43 | 11/29/23 22:20 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.4 | U | 50.4 | mg/Kg | | 11/29/23 13:43 | 11/29/23 22:20 | 1 |
| Oll Range Organics (Over C28-C36) | <50.4 | U | 50.4 | mg/Kg | | 11/29/23 13:43 | 11/29/23 22:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|---------------|------------------|---------|
| 1-Chlorooctane | 134 | S1+ | 70 - 130 | 11/29/23 13:4 | 3 11/29/23 22:20 | 1 |
| o-Terphenyl | 113 | | 70 - 130 | 11/29/23 13:4 | 3 11/29/23 22:20 | 1 |

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.02 | U | 5.02 | mg/Kg | | | 11/30/23 00:43 | 1 |

Client Sample ID: BH 23 -15 0'

Date Collected: 11/21/23 12:09 Date Received: 11/27/23 15:55

Sample Depth: 0'

| Γ | |
|----------------------|---------------------------------|
| Mothod: CIMOAC 0004D | Valatila Organia Compounda (CC) |

| Method: SW846 8021B - Volat | ile Organic Comp | ounds (GC) |) | | | | | |
|-----------------------------|------------------|------------|----------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 | | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |
| 1,4-Difluorobenzene (Surr) | 124 | | 70 - 130 | | | 11/29/23 10:24 | 11/30/23 00:21 | 1 |

| Mothod: TAI | SOP Total RTFY | - Total RTFY | Calculation |
|-------------|----------------|--------------|-------------|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------|-----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | < 0.00399 | U | 0.00399 | ma/Ka | | | 11/30/23 00:21 | 1 |

| Method: SW846 8015 NM - Diesel Range Organics (DRO) (G |
|--|
|--|

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <50.1 | U | 50.1 | mg/Kg | | | 11/29/23 22:41 | 1 |

Eurofins Carlsbad

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Lab Sample ID: 890-5683-3

Lab Sample ID: 890-5683-4

Matrix: Solid

Client: Vertex Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB SDG: 23E-05935

Client Sample ID: BH 23 -15 0'

Date Collected: 11/21/23 12:09 Date Received: 11/27/23 15:55

Sample Depth: 0'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------------|--------------|-------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics | <50.1 | U *1 | 50.1 | mg/Kg | | 11/29/23 13:43 | 11/29/23 22:41 | 1 |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | <50.1 | U | 50.1 | mg/Kg | | 11/29/23 13:43 | 11/29/23 22:41 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.1 | U | 50.1 | mg/Kg | | 11/29/23 13:43 | 11/29/23 22:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | | | 70 - 130 | | | 11/29/23 13:43 | 11/29/23 22:41 | 1 |
| o-Terphenyl | 103 | | 70 - 130 | | | 11/29/23 13:43 | 11/29/23 22:41 | 1 |
| - Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | e | | | | | |
| | | | | 1114 | | Danie and | A ll | D:: F |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |

Client Sample ID: BH 23 -15 2'

Date Collected: 11/21/23 12:11

Date Received: 11/27/23 15:55

Sample Depth: 2'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|--|--|--------------------------------------|------------|--|--|---------------------------|
| Benzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| Toluene | <0.00201 | U | 0.00201 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | mg/Kg | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 130 | | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| 1,4-Difluorobenzene (Surr) | 113 | | 70 - 130 | | | 11/29/23 10:24 | 11/30/23 00:41 | 1 |
| Method: TAL SOP Total BTEX - T | Total BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Allalyte | Result | Qualifici | | 0 | | | | |
| Total BTEX | <0.00402 | | 0.00402 | mg/Kg | — <u> </u> | | 11/30/23 00:41 | 1 |
| Total BTEX | <0.00402 | U | 0.00402 | | = | | | 1 |
| Total BTEX Method: SW846 8015 NM - Diese | <0.00402 | ics (DRO) (| 0.00402 GC) | mg/Kg | | · · | 11/30/23 00:41 | |
| Total BTEX Method: SW846 8015 NM - Diese Analyte | <0.00402 el Range Organ Result | ics (DRO) (Qualifier | 0.00402 GC) | mg/Kg | | Prepared | 11/30/23 00:41 Analyzed | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Diese | <0.00402 | ics (DRO) (Qualifier | 0.00402 GC) | mg/Kg | | · · | 11/30/23 00:41 | |
| Total BTEX Method: SW846 8015 NM - Diese Analyte | <0.00402 Range Organ Result <49.7 | ics (DRO) (I | 0.00402 GC) RL 49.7 | mg/Kg | | · · | 11/30/23 00:41 Analyzed | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH | <0.00402 el Range Organ Result <49.7 sel Range Organ | ics (DRO) (I | 0.00402 GC) RL 49.7 | mg/Kg | | · · | 11/30/23 00:41 Analyzed | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics | <0.00402 el Range Organ Result <49.7 sel Range Organ | ics (DRO) (Qualifier U | 0.00402 GC) RL 49.7 (GC) | mg/Kg Unit mg/Kg | <u>D</u> | Prepared | 11/30/23 00:41 Analyzed 11/29/23 23:04 | Dil Fac |
| Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 | <0.00402 el Range Organ Result <49.7 Sel Range Organ Result <49.7 | U ics (DRO) (Qualifier U anics (DRO) Qualifier U *1 | 0.00402 RL 49.7 (GC) RL 49.7 | mg/Kg Unit mg/Kg Unit mg/Kg | <u>D</u> | Prepared Prepared 11/29/23 13:43 | Analyzed 11/29/23 23:04 Analyzed 11/29/23 23:04 | Dil Fac Dil Fac |
| Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics | <0.00402 el Range Organ Result <49.7 sel Range Orga Result | U ics (DRO) (Qualifier U anics (DRO) Qualifier U *1 | 0.00402 GC) RL 49.7 (GC) RL | mg/Kg Unit mg/Kg Unit | <u>D</u> | Prepared Prepared | 11/30/23 00:41 Analyzed 11/29/23 23:04 Analyzed | Dil Fac Dil Fac 1 |
| Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over | <0.00402 el Range Organ Result <49.7 Sel Range Organ Result <49.7 | U ics (DRO) (Qualifier U anics (DRO) Qualifier U *1 | 0.00402 RL 49.7 (GC) RL 49.7 | mg/Kg Unit mg/Kg Unit mg/Kg | <u>D</u> | Prepared Prepared 11/29/23 13:43 | Analyzed 11/29/23 23:04 Analyzed 11/29/23 23:04 | Dil Fac Dil Fac 1 |
| Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) | <0.00402 el Range Organ Result <49.7 Sel Range Orga Result <49.7 <49.7 | U ics (DRO) (Qualifier U anics (DRO) Qualifier U *1 U | 0.00402 RL 49.7 (GC) RL 49.7 49.7 | mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg | <u>D</u> | Prepared Prepared 11/29/23 13:43 11/29/23 13:43 | Analyzed 11/29/23 23:04 Analyzed 11/29/23 23:04 11/29/23 23:04 | Dil Fac Dil Fac 1 |
| Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) | <0.00402 el Range Organ Result <49.7 sel Range Orga Result <49.7 <49.7 <49.7 | U ics (DRO) (Qualifier U anics (DRO) Qualifier U *1 U | 0.00402 RL 49.7 (GC) RL 49.7 49.7 49.7 | mg/Kg Unit mg/Kg Unit mg/Kg mg/Kg | <u>D</u> | Prepared Prepared 11/29/23 13:43 11/29/23 13:43 | Analyzed 11/29/23 23:04 Analyzed 11/29/23 23:04 11/29/23 23:04 11/29/23 23:04 | Dil Fac Dil Fac 1 1 1 |

Client Sample Results

 Client: Vertex
 Job ID: 890-5683-1

 Project/Site: PLU 29 BIG SINKS CTB
 SDG: 23E-05935

Client Sample ID: BH 23 -15 2'

Date Collected: 11/21/23 12:11

Lab Sample ID: 890-5683-4

Matrix: Solid

Date Collected: 11/21/23 12:11
Date Received: 11/27/23 15:55

Sample Depth: 2'

| Method: EPA 300.0 - Anions, Ion Chromatography - Soluble | | | | | | | | | | |
|--|--------|-----------|------|-------|---|----------|----------------|---------|--|--|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| Chloride | 5.27 | | 4.95 | mg/Kg | | | 11/30/23 00:54 | 1 | | |

4

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Surrogate Summary

Client: Vertex Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB SDG: 23E-05935

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| | | BFB1 | DFBZ1 | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|----------|--|
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 890-5669-A-1-E MS | Matrix Spike | 104 | 108 | |
| 890-5669-A-1-F MSD | Matrix Spike Duplicate | 112 | 96 | |
| 890-5683-1 | BH 23 -14 0' | 98 | 119 | |
| 890-5683-2 | BH 23 -14 2' | 101 | 120 | |
| 890-5683-3 | BH 23 -15 0' | 104 | 124 | |
| 890-5683-4 | BH 23 -15 2' | 102 | 113 | |
| LCS 880-67907/1-A | Lab Control Sample | 86 | 106 | |
| LCSD 880-67907/2-A | Lab Control Sample Dup | 88 | 101 | |
| MB 880-67907/5-A | Method Blank | 101 | 138 S1+ | |

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA **Matrix: Solid**

| | | | | Percent Surrogate Recovery (Acceptance Limits) |
|------------------|------------------------|----------|----------|--|
| | | 1CO1 | OTPH1 | |
| Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 36155-A-21-D MS | Matrix Spike | 120 | 93 | |
| 86155-A-21-E MSD | Matrix Spike Duplicate | 126 | 87 | |
| 5683-1 | BH 23 -14 0' | 125 | 107 | |
| 683-2 | BH 23 -14 2' | 134 S1+ | 113 | |
| 5683-3 | BH 23 -15 0' | 119 | 103 | |
| 683-4 | BH 23 -15 2' | 112 | 100 | |
| 880-67878/2-A | Lab Control Sample | 86 | 92 | |
| D 880-67878/3-A | Lab Control Sample Dup | 116 | 114 | |
| 380-67878/1-A | Method Blank | 144 S1+ | 139 S1+ | |

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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Released to Imaging: 3/7/2024 2:18:00 PM

Client: Vertex Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB

SDG: 23E-05935

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-67907/5-A

Analysis Batch: 67899

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 67907

| | IVID | IVID | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/29/23 17:15 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/29/23 17:15 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/29/23 17:15 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 11/29/23 10:24 | 11/29/23 17:15 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 11/29/23 10:24 | 11/29/23 17:15 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 11/29/23 10:24 | 11/29/23 17:15 | 1 |
| | | | | | | | | |

MB MB

MD MD

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|------------------|---------------|---------|
| 4-Bromofluorobenzene (Surr) | 101 | | 70 - 130 | 11/29/23 10:24 | 1/29/23 17:15 | 1 |
| 1,4-Difluorobenzene (Surr) | 138 | S1+ | 70 - 130 | 11/29/23 10:24 1 | 1/29/23 17:15 | 1 |

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 67907

Prep Type: Total/NA

Prep Batch: 67907

Matrix: Solid

Lab Sample ID: LCS 880-67907/1-A

Analysis Batch: 67899

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08364 mg/Kg 84 70 - 130 Toluene 0.100 0.08172 mg/Kg 82 70 - 130 0.100 0.07370 74 Ethylbenzene mg/Kg 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.1640 mg/Kg 82 0.100 0.08002 70 - 130 o-Xylene mg/Kg

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 106 | | 70 - 130 |

Lab Sample ID: LCSD 880-67907/2-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Batch: 67899

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.08388 | | mg/Kg | | 84 | 70 - 130 | 0 | 35 | |
| Toluene | 0.100 | 0.07696 | | mg/Kg | | 77 | 70 - 130 | 6 | 35 | |
| Ethylbenzene | 0.100 | 0.07429 | | mg/Kg | | 74 | 70 - 130 | 1 | 35 | |
| m-Xylene & p-Xylene | 0.200 | 0.1578 | | mg/Kg | | 79 | 70 - 130 | 4 | 35 | |
| o-Xylene | 0.100 | 0.07676 | | mg/Kg | | 77 | 70 - 130 | 4 | 35 | |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 101 | | 70 - 130 |

Lab Sample ID: 890-5669-A-1-E MS

Matrix: Solid

| Analysis Batch: 67899 | | | | | | | | | Prep | Prep Batch: 67907 | | |
|-----------------------|----------|-----------|--------|---------|-----------|-------|---|------|----------|-------------------|--|--|
| | Sample | Sample | Spike | MS | MS | | | | %Rec | | | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | | |
| Benzene | <0.00200 | U F1 | 0.0996 | 0.06867 | F1 | mg/Kg | | 69 | 70 - 130 | | | |
| Toluene | <0.00200 | U F1 | 0.0996 | 0.05365 | F1 | mg/Kg | | 54 | 70 - 130 | | | |

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Prep Type: Total/NA

Client Sample ID: Matrix Spike

QC Sample Results

Client: Vertex Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB SDG: 23E-05935

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

Lab Sample ID: 890-5669-A-1-E MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 67899

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00200 UF1 0.0996 0.05484 F1 55 70 - 130 mg/Kg m-Xylene & p-Xylene < 0.00399 0.199 0.1452 mg/Kg 73 70 - 130 0.0996 o-Xylene <0.00200 U 0.07326 74 70 - 130 mg/Kg

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 104 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 108 | | 70 - 130 |

Lab Sample ID: 890-5669-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 67899

Prep Type: Total/NA

Prep Batch: 67907

Prep Batch: 67907

Sample Sample Spike MSD MSD RPD Result Qualifier Added RPD Limit Analyte Result Qualifier Unit %Rec Limits Benzene <0.00200 UF1 0.0994 0.07184 mg/Kg 72 70 - 130 5 35 Toluene <0.00200 UF1 0.0994 0.06955 mg/Kg 70 70 - 130 26 35 Ethylbenzene <0.00200 0.0994 0.07211 73 70 - 130 27 35 U F1 mg/Kg 0.199 m-Xylene & p-Xylene < 0.00399 U 0.1683 mg/Kg 85 70 - 130 15 35 <0.00200 U 0.0994 0.08152 82 70 - 130 o-Xylene mg/Kg 11

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 112 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 96 | | 70 - 130 |

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

Client Sample ID: Method Blank Lab Sample ID: MB 880-67878/1-A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 67878

Analysis Batch: 67889

мв мв

| An | nalyte Resu | t Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----|--|-------------|------|-------|---|----------------|----------------|---------|
| | asoline Range Organics <50. RO)-C6-C10 | 0 U | 50.0 | mg/Kg | | 11/28/23 14:46 | 11/29/23 19:44 | 1 |
| Die | esel Range Organics (Over <50. | 0 U | 50.0 | mg/Kg | | 11/28/23 14:46 | 11/29/23 19:44 | 1 |
| | (0-C28) I Range Organics (Over C28-C36) <50. | 0 U | 50.0 | mg/Kg | | 11/28/23 14:46 | 11/29/23 19:44 | 1 |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 144 | S1+ | 70 - 130 | 11/28/23 14:46 | 11/29/23 19:44 | 1 |
| o-Terphenyl | 139 | S1+ | 70 - 130 | 11/28/23 14:46 | 11/29/23 19:44 | 1 |

Lab Sample ID: LCS 880-67878/2-A

Matrix: Solid

Analysis Batch: 67889

| | | Prep Type: Total/NA |
|-------|---------|---------------------|
| | | Prep Batch: 67878 |
| Spike | LCS LCS | %Rec |

| | Бріке | LCS | LUS | | | | %Rec | |
|-----------------------------|--------------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 870.5 | | mg/Kg | | 87 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 888.2 | | mg/Kg | | 89 | 70 - 130 | |
| C10-C28) | | | | | | | | |

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Client Sample ID: Lab Control Sample

Project/Site: PLU 29 BIG SINKS CTB

Client: Vertex

Job ID: 890-5683-1

SDG: 23E-05935

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

Lab Sample ID: LCS 880-67878/2-A

Lab Sample ID: LCSD 880-67878/3-A

Lab Sample ID: 880-36155-A-21-D MS

Matrix: Solid

Analysis Batch: 67889

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 67878

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 86 70 - 130 o-Terphenyl 92 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 67878

Matrix: Solid Analysis Batch: 67889

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 1085 *1 109 70 - 13022 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1064 106 mg/Kg 70 - 13018 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 116 114 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 67878

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Gasoline Range Organics <49.7 U *1 1010 903.7 mg/Kg 87 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.7 U 1010 1292 mg/Kg 126 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 67889

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 120 o-Terphenyl 93 70 - 130

Lab Sample ID: 880-36155-A-21-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 67889

Prep Type: Total/NA

Prep Batch: 67878

Sample Sample MSD MSD RPD Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Gasoline Range Organics U *1 1010 889.0 85 <49.7 70 - 130 2 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.7 U 1010 1246 mg/Kg 122 70 - 130 20 C10-C28)

MSD MSD

Qualifier Surrogate %Recovery Limits 1-Chlorooctane 126 70 - 130 87 70 - 130 o-Terphenyl

QC Sample Results

Client: Vertex Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB

SDG: 23E-05935

%Rec

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-67832/1-A Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 67963

| | MB | MB | | | | | | |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 11/29/23 22:05 | 1 |

Lab Sample ID: LCS 880-67832/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

LCS LCS

Analysis Batch: 67963

Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 255.1 mg/Kg 102 90 - 110

Spike

Lab Sample ID: LCSD 880-67832/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 67963

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits Limit Chloride 250 256.9 90 - 110 mg/Kg 103

Lab Sample ID: 880-36106-A-1-E MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 67963

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|---|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 8.30 | | 251 | 264.5 | | mg/Kg | | 102 | 90 - 110 | _ |

Lab Sample ID: 880-36106-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 67963

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 8.30 | | 251 | 265.3 | | mg/Kg | | 102 | 90 - 110 | 0 | 20 |

QC Association Summary

 Client: Vertex
 Job ID: 890-5683-1

 Project/Site: PLU 29 BIG SINKS CTB
 SDG: 23E-05935

GC VOA

Analysis Batch: 67899

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5683-1 | BH 23 -14 0' | Total/NA | Solid | 8021B | 67907 |
| 890-5683-2 | BH 23 -14 2' | Total/NA | Solid | 8021B | 67907 |
| 890-5683-3 | BH 23 -15 0' | Total/NA | Solid | 8021B | 67907 |
| 890-5683-4 | BH 23 -15 2' | Total/NA | Solid | 8021B | 67907 |
| MB 880-67907/5-A | Method Blank | Total/NA | Solid | 8021B | 67907 |
| LCS 880-67907/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 67907 |
| LCSD 880-67907/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 67907 |
| 890-5669-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 67907 |
| 890-5669-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 67907 |

Prep Batch: 67907

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Bato |
|--------------------|------------------------|-----------|--------|--------|-----------|
| 890-5683-1 | BH 23 -14 0' | Total/NA | Solid | 5035 | _ |
| 890-5683-2 | BH 23 -14 2' | Total/NA | Solid | 5035 | |
| 890-5683-3 | BH 23 -15 0' | Total/NA | Solid | 5035 | |
| 890-5683-4 | BH 23 -15 2' | Total/NA | Solid | 5035 | |
| MB 880-67907/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-67907/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-67907/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5669-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-5669-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 68041

| Lal | b Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----|-------------|------------------|-----------|--------|------------|------------|
| 890 | 0-5683-1 | BH 23 -14 0' | Total/NA | Solid | Total BTEX | |
| 890 | 0-5683-2 | BH 23 -14 2' | Total/NA | Solid | Total BTEX | |
| 890 | 0-5683-3 | BH 23 -15 0' | Total/NA | Solid | Total BTEX | |
| 890 | 0-5683-4 | BH 23 -15 2' | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Prep Batch: 67878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| 890-5683-1 | BH 23 -14 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5683-2 | BH 23 -14 2' | Total/NA | Solid | 8015NM Prep | |
| 890-5683-3 | BH 23 -15 0' | Total/NA | Solid | 8015NM Prep | |
| 890-5683-4 | BH 23 -15 2' | Total/NA | Solid | 8015NM Prep | |
| MB 880-67878/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-67878/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-67878/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-36155-A-21-D MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-36155-A-21-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 67889

Released to Imaging: 3/7/2024 2:18:00 PM

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 890-5683-1 | BH 23 -14 0' | Total/NA | Solid | 8015B NM | 67878 |
| 890-5683-2 | BH 23 -14 2' | Total/NA | Solid | 8015B NM | 67878 |
| 890-5683-3 | BH 23 -15 0' | Total/NA | Solid | 8015B NM | 67878 |
| 890-5683-4 | BH 23 -15 2' | Total/NA | Solid | 8015B NM | 67878 |
| MB 880-67878/1-A | Method Blank | Total/NA | Solid | 8015B NM | 67878 |
| LCS 880-67878/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 67878 |

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QC Association Summary

Client: Vertex Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB

SDG: 23E-05935

GC Semi VOA (Continued)

Analysis Batch: 67889 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------------|------------------------|-----------|--------|----------|------------|
| LCSD 880-67878/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 67878 |
| 880-36155-A-21-D MS | Matrix Spike | Total/NA | Solid | 8015B NM | 67878 |
| 880-36155-A-21-E MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 67878 |

Analysis Batch: 68028

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5683-1 | BH 23 -14 0' | Total/NA | Solid | 8015 NM | |
| 890-5683-2 | BH 23 -14 2' | Total/NA | Solid | 8015 NM | |
| 890-5683-3 | BH 23 -15 0' | Total/NA | Solid | 8015 NM | |
| 890-5683-4 | BH 23 -15 2' | Total/NA | Solid | 8015 NM | |

HPLC/IC

Leach Batch: 67832

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5683-1 | BH 23 -14 0' | Soluble | Solid | DI Leach | _ |
| 890-5683-2 | BH 23 -14 2' | Soluble | Solid | DI Leach | |
| 890-5683-3 | BH 23 -15 0' | Soluble | Solid | DI Leach | |
| 890-5683-4 | BH 23 -15 2' | Soluble | Solid | DI Leach | |
| MB 880-67832/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-67832/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-67832/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-36106-A-1-E MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-36106-A-1-F MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 67963

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-5683-1 | BH 23 -14 0' | Soluble | Solid | 300.0 | 67832 |
| 890-5683-2 | BH 23 -14 2' | Soluble | Solid | 300.0 | 67832 |
| 890-5683-3 | BH 23 -15 0' | Soluble | Solid | 300.0 | 67832 |
| 890-5683-4 | BH 23 -15 2' | Soluble | Solid | 300.0 | 67832 |
| MB 880-67832/1-A | Method Blank | Soluble | Solid | 300.0 | 67832 |
| LCS 880-67832/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 67832 |
| LCSD 880-67832/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 67832 |
| 880-36106-A-1-E MS | Matrix Spike | Soluble | Solid | 300.0 | 67832 |
| 880-36106-A-1-F MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 67832 |

Lab Chronicle

Job ID: 890-5683-1 Client: Vertex Project/Site: PLU 29 BIG SINKS CTB SDG: 23E-05935

Client Sample ID: BH 23 -14 0'

Date Received: 11/27/23 15:55

Lab Sample ID: 890-5683-1 Date Collected: 11/21/23 12:00

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 67907 11/29/23 10:24 MNR **EET MID** Total/NA Analysis 8021B 1 5 mL 5 mL 67899 11/29/23 23:40 MNR EET MID Total/NA Analysis Total BTEX 68041 11/29/23 23:40 SM **EET MID** Total/NA Analysis 8015 NM 1 68028 11/29/23 21:58 SM **EET MID** 10 mL 67878 11/29/23 13:43 TKC EET MID Total/NA 8015NM Prep 9.94 g Prep Total/NA Analysis 8015B NM 1 uL 1 uL 67889 11/29/23 21:58 SM **EET MID** 50 mL 67832 11/28/23 10:47 SA Soluble DI Leach 4.95 g FFT MID Leach Soluble Analysis 300.0 50 mL 50 mL 67963 11/30/23 00:38 СН **EET MID**

Client Sample ID: BH 23 -14 2'

Lab Sample ID: 890-5683-2 Date Collected: 11/21/23 12:05

Matrix: Solid

Date Received: 11/27/23 15:55

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Factor Amount Amount Number or Analyzed Lab Run **Analyst** Total/NA Prep 5035 5.03 g 5 mL 67907 11/29/23 10:24 MNR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 67899 11/30/23 00:00 MNR **EET MID** Total/NA Total BTEX Analysis 68041 11/30/23 00:00 SM **EET MID** 1 Total/NA Analysis 8015 NM 68028 11/29/23 22:20 SM **EET MID** 9.92 g Total/NA 8015NM Prep 10 mL 67878 11/29/23 13:43 TKC **EET MID** Prep Total/NA Analysis 8015B NM 1 uL 1 uL 67889 11/29/23 22:20 SM **EET MID** Soluble 4.98 g DI Leach 67832 11/28/23 10:47 **EET MID** Leach 50 mL SA Soluble Analysis 300.0 50 mL 50 mL 67963 11/30/23 00:43 СН **EET MID**

Client Sample ID: BH 23 -15

Lab Sample ID: 890-5683-3 Date Collected: 11/21/23 12:09 **Matrix: Solid**

Date Received: 11/27/23 15:55

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 67907 | 11/29/23 10:24 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67899 | 11/30/23 00:21 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68041 | 11/30/23 00:21 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68028 | 11/29/23 22:41 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 9.99 g | 10 mL | 67878 | 11/29/23 13:43 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67889 | 11/29/23 22:41 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.00 g | 50 mL | 67832 | 11/28/23 10:47 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 67963 | 11/30/23 00:49 | CH | EET MID |

Client Sample ID: BH 23 -15 2'

Date Collected: 11/21/23 12:11 **Matrix: Solid**

Date Received: 11/27/23 15:55

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 4.97 g | 5 mL | 67907 | 11/29/23 10:24 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 67899 | 11/30/23 00:41 | MNR | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68041 | 11/30/23 00:41 | SM | EET MID |

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Lab Sample ID: 890-5683-4

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Lab Chronicle

Client: Vertex Job ID: 890-5683-1
Project/Site: PLU 29 BIG SINKS CTB SDG: 23E-05935

Client Sample ID: BH 23 -15 2'

Lab Sample ID: 890-5683-4

Matrix: Solid

Date Collected: 11/21/23 12:11 Date Received: 11/27/23 15:55

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68028 | 11/29/23 23:04 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.07 g | 10 mL | 67878 | 11/29/23 13:43 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 67889 | 11/29/23 23:04 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 67832 | 11/28/23 10:47 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 67963 | 11/30/23 00:54 | CH | EET MID |

Laboratory References:

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

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Accreditation/Certification Summary

 Client: Vertex
 Job ID: 890-5683-1

 Project/Site: PLU 29 BIG SINKS CTB
 SDG: 23E-05935

Laboratory: Eurofins Midland

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

| Authority | Progr | am | Identification Number | Expiration Date |
|-----------------|---------------------------------|---------------------------------|---|------------------------|
| Texas | NELA | Р | T104704400-23-26 | 06-30-24 |
| , | are included in this report, bu | ut the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 8015 NM | | Solid | Total TPH | |
| Total BTEX | | Solid | Total BTEX | |

Method Summary

 Client: Vertex
 Job ID: 890-5683-1

 Project/Site: PLU 29 BIG SINKS CTB
 SDG: 23E-05935

thod Method Description Protocol Laboratory

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Eurofins Carlsbad

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Sample Summary

Client: Vertex

Job ID: 890-5683-1 Project/Site: PLU 29 BIG SINKS CTB SDG: 23E-05935

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-5683-1 | BH 23 -14 0' | Solid | 11/21/23 12:00 | 11/27/23 15:55 | 0' |
| 890-5683-2 | BH 23 -14 2' | Solid | 11/21/23 12:05 | 11/27/23 15:55 | 2' |
| 890-5683-3 | BH 23 -15 0' | Solid | 11/21/23 12:09 | 11/27/23 15:55 | 0' |
| 890-5683-4 | BH 23 -15 2' | Solid | 11/21/23 12:11 | 11/27/23 15:55 | 2' |

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3199

> Environment Testing Xenco

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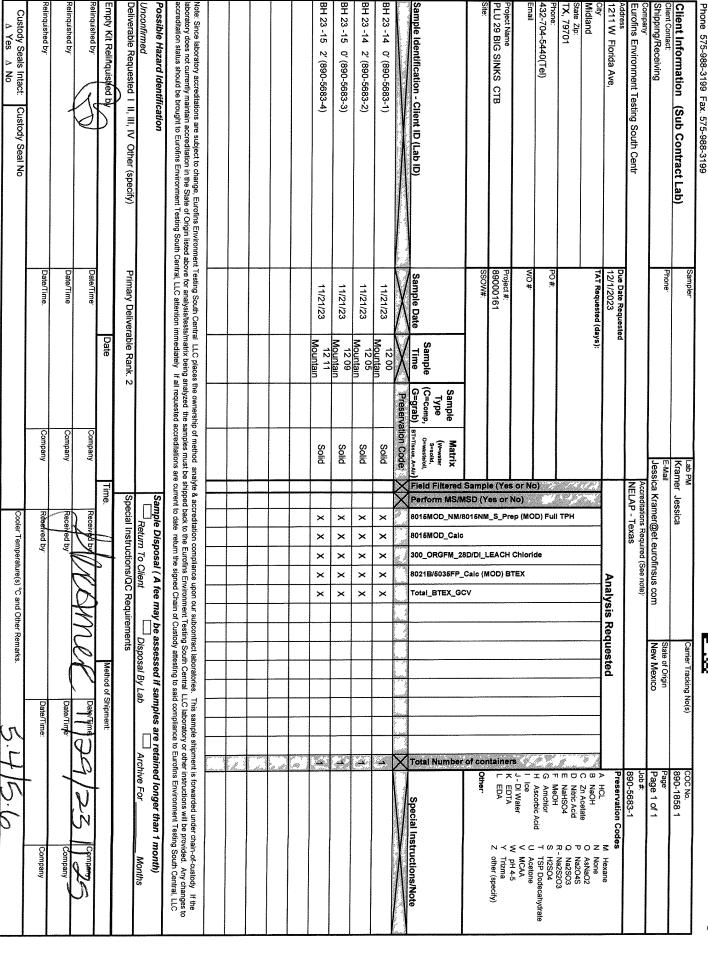
Work Order No: 181853100

| | | | www.xenco.com | rage |
|--|--|--|--|---|
| Project Manager: (Wante 1) | Bill to: (if different) | ent) YOUNG | Work Order Comments | mments |
| vertex | Company Name: | ne: Garrett Grun | Program: UST/PST ☐ PRP ☐ Bro | Brownfields ☐ RRC ☐ Superfund ☐ |
| | Address: | 00 12:16 | | |
| City, State ZIP: | City, State ZIP: | | Reporting: Level II Level III | PST/UST TRRP Level IV |
| Phone: | Email: | | Deliverables: EDD ADa | ADaPT ☐ Other: |
| Project Name: PLU19 Buck | Turn Around | ANALYSIS REQUEST | UEST | Preservative Codes |
| Project Number: 236 - US 4865 | Routine | Pres. Code | | None: NO DI Water: H ₂ O |
| Project Location: 12029 Big Simbs Sampler's Name: 1200 Salvon 234 | 2000 | I Ska | | |
| SAMPLE RECEIPT Temp Blank: | The lab, if received by 4:30pm Wet Ice: Yes No | DS C | | H ₂ SO ₄ : H ₂ NaOH: Na H ₃ PO ₄ : HP |
| tact: (Yes No | eter ID: | S. S | 890-5683 Chain of Custody | NaHSO 4: NABIS |
| Yes No N/A | | -) 2d | - | Na ₂ S ₂ O ₃ : NaSO ₃ |
| Seals: Yes No N/A | Ó, | \\\ \(\) | | Zn Acetate+NaOH: Zn |
| Total Containers: | Corrected Temperature: O. O | 71 | | NAUH+ASCOIDIC ACID: SAPIC |
| Sample Identification Matrix | Sampled Campled Depth | Cont to Cont | | Sample Comments |
| 200 | Dalding P | | | |
| 200 | 1.2(.)31 . 2.00 | 3) | | |
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| | | | | |
| Total 200.7 / 6010 200.8 / 6020: | 8RCRA 13PPM Texas 11 AI S | b As Ba Be B Cd Ca Cr Co | Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr TI Sn U V h Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 747 | TI Sn U V Zn 77470 / 7471 |
| circle Method(s) and Meta(s) to be anal | ואַבפּע וכן אַ זוּבּן סוס . סו | | | |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any respons of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for | es constitutes a valid purchase order from client comp les and shall not assume any responsibility for any loss ico each project and a charge of \$5 for each sample sub | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 service. Eurofins Xenco, will be liable only for the captive and shall be enforced unless previously negotiated. Of Eurofins Xenco, A minimum charge of \$85.00 will be enforced unless previously negotiated. | rms and conditions eyond the control ess previously negotlated. | |
| Relinquished by: (Signature) | Received by: (Signature) | Date/Time Relinquished by: (Ṣignature) | ture) Received by: (Signature) |) Date/Time |
| V | 2551 (8) 11 20111 | 2 | | |
| | | | | |

1089 N Canal St

Eurofins Carlsbad

| Carlsbad NM 88220 | Chain of Custody Record | ly Record | | 💸 eurofins Enviro |
|---------------------------------------|-------------------------|----------------------------------|------------------------|--------------------------|
| Phone 575-988-3199 Fax. 575-988-3199 | | | | |
| | Sampler | Lab PM | Carrier Tracking No(s) | COC No. |
| Client Information (Sub Contract Lab) | | Kramer Jessica | | 890-1858 1 |
| Client Contact: | Phone: | E-Mail | State of Origin | Page: |
| Shipping/Receiving | | Jessica Kramer@et.eurofinsus com | New Mexico | Page 1 of 1 |
| Company: | | | | |



ment Testing

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Vertex Job Number: 890-5683-1 SDG Number: 23E-05935

Login Number: 5683 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

| 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. | N/A | Refer to Job Narrative for details. |
| 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 | |

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11/30/2023

Login Sample Receipt Checklist

Client: Vertex Job Number: 890-5683-1 SDG Number: 23E-05935

Login Number: 5683 **List Source: Eurofins Midland** List Number: 2 List Creation: 11/29/23 11:34 AM

Creator: Kramer, Jessica

| 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"). | N/A | |

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Chance Dixon Vertex 3101 Boyd Dr Carlsbad, New Mexico 88220

Generated 12/12/2023 3:34:13 PM

JOB DESCRIPTION

PLU 29 BIG SINKS 23E - 05485

JOB NUMBER

890-5756-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 12/12/2023 3:34:13 PM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Released to Imaging: 3/7/2024 2:18:00 PM

Client: Vertex Laboratory Job ID: 890-5756-1 Project/Site: PLU 29 BIG SINKS SDG: 23E - 05485

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Definitions/Glossary

Client: Vertex Job ID: 890-5756-1 Project/Site: PLU 29 BIG SINKS

SDG: 23E - 05485

Qualifiers

GC VOA

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

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD recovery exceeds control limits. |
| 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

EDL

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| n | 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) |

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)

Estimated Detection Limit (Dioxin)

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 **Practical Quantitation Limit** PQL

PRES Presumptive **Quality Control** QC

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

Released to Imaging: 3/7/2024 2:18:00 PM

Case Narrative

Client: Vertex

Job ID: 890-5756-1 Project/Site: PLU 29 BIG SINKS

SDG: 23E - 05485

Job ID: 890-5756-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-5756-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 12/8/2023 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil iar: BH23 - 03 4.5' (890-5756-1).

Method 8021B: Surrogate recovery for the following samples were outside control limits: (CCV 880-68756/2) and (LCS 880-68841/1-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BH23 - 03 4.5' (890-5756-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (890-5745-A-1-C MS) and (890-5745-A-1-D MSD). 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

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-68852 and analytical batch 880-68750 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-68750/20), (CCV 880-68750/31), (CCV 880-68750/47), (CCV 880-68750/5), (CCV 880-68750/58) and (LCS 880-68852/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-68852 and analytical batch 880-68750 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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.

Lab Sample ID: 890-5756-1

Client Sample Results

 Client: Vertex
 Job ID: 890-5756-1

 Project/Site: PLU 29 BIG SINKS
 SDG: 23E - 05485

Client Sample ID: BH23 - 03 4.5'

Date Collected: 12/01/23 06:30 Date Received: 12/08/23 08:00

Sample Depth: 4.5'

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|----------------|-------------|----------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | mg/Kg | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | mg/Kg | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 174 | S1+ | 70 - 130 | | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| 1,4-Difluorobenzene (Surr) | 67 | S1- | 70 - 130 | | | 12/11/23 13:38 | 12/12/23 09:59 | 1 |
| Method: TAL SOP Total BTEX - T | otal BTEX Cald | culation | | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total BTEX | <0.00399 | U | 0.00399 | mg/Kg | | | 12/12/23 09:59 | 1 |
| Method: SW846 8015 NM - Diese | l Range Organ | ics (DRO) (| GC) | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Total TPH | <50.0 | U | 50.0 | mg/Kg | | | 12/12/23 03:59 | 1 |
| Method: SW846 8015B NM - Dies | el Range Orga | nics (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 | | 12/11/23 14:33 | 12/12/23 03:59 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | mg/Kg | | 12/11/23 14:33 | 12/12/23 03:59 | 1 |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/11/23 14:33 | 12/12/23 03:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1-Chlorooctane | 86 | | 70 - 130 | | | 12/11/23 14:33 | 12/12/23 03:59 | 1 |
| o-Terphenyl | 81 | | 70 - 130 | | | 12/11/23 14:33 | 12/12/23 03:59 | 1 |
| Method: EPA 300.0 - Anions, Ion | Chromatograp | hy - Solubl | е | | | | | |
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Chloride | <4.99 | 11 | 4.99 | mg/Kg | | | 12/11/23 18:50 | 1 |

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Surrogate Summary

Client: Vertex Job ID: 890-5756-1 Project/Site: PLU 29 BIG SINKS SDG: 23E - 05485

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

| _ | | | |
|--------------------|------------------------|----------|----------|
| | | BFB1 | DFBZ1 |
| Lab Sample ID | Client Sample ID | (70-130) | (70-130) |
| 890-5745-A-1-C MS | Matrix Spike | 167 S1+ | 154 S1+ |
| 890-5745-A-1-D MSD | Matrix Spike Duplicate | 151 S1+ | 89 |
| 890-5756-1 | BH23 - 03 4.5' | 174 S1+ | 67 S1- |
| LCS 880-68841/1-A | Lab Control Sample | 136 S1+ | 86 |
| LCSD 880-68841/2-A | Lab Control Sample Dup | 125 | 77 |
| MB 880-68778/5-A | Method Blank | 73 | 75 |
| MB 880-68841/5-A | Method Blank | 74 | 92 |
| Surrogate Legend | | | |

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Prep Type: Total/NA **Matrix: Solid**

| | | 1001 | OTPH1 | |
|--------------------|------------------------|----------|----------|--|
| ab Sample ID | Client Sample ID | (70-130) | (70-130) | |
| 80-36743-A-7-B MS | Matrix Spike | 93 | 90 | |
| 80-36743-A-7-C MSD | Matrix Spike Duplicate | 95 | 85 | |
| 90-5756-1 | BH23 - 03 4.5' | 86 | 81 | |
| CS 880-68852/2-A | Lab Control Sample | 130 | 148 S1+ | |
| .CSD 880-68852/3-A | Lab Control Sample Dup | 102 | 117 | |
| MB 880-68852/1-A | Method Blank | 124 | 134 S1+ | |

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Vertex Job ID: 890-5756-1 Project/Site: PLU 29 BIG SINKS SDG: 23E - 05485

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-68778/5-A

Lab Sample ID: MB 880-68841/5-A

Matrix: Solid

Analysis Batch: 68756

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68778

| | MB | MB | | | | | | |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 10:04 | 12/11/23 11:51 | • |
| Toluene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 10:04 | 12/11/23 11:51 | |
| Ethylbenzene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 10:04 | 12/11/23 11:51 | |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | mg/Kg | | 12/11/23 10:04 | 12/11/23 11:51 | |
| o-Xylene | <0.00200 | U | 0.00200 | mg/Kg | | 12/11/23 10:04 | 12/11/23 11:51 | |
| Xylenes, Total | <0.00400 | U | 0.00400 | mg/Kg | | 12/11/23 10:04 | 12/11/23 11:51 | |
| | | | | | | | | |

MB MB

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed |
|-----------------------------|-----------|-----------|----------|---|----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 73 | | 70 - 130 | _ | 12/11/23 10:04 | 12/11/23 11:51 |
| 1,4-Difluorobenzene (Surr) | 75 | | 70 - 130 | | 12/11/23 10:04 | 12/11/23 11:51 |

Client Sample ID: Method Blank

Analyzed

Prep Type: Total/NA Prep Batch: 68841

Matrix: Solid Analysis Batch: 68756 MR MR

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 12/11/23 13:38 12/12/23 01:20 Toluene <0.00200 U 0.00200 mg/Kg 12/11/23 13:38 12/12/23 01:20 Ethylbenzene <0.00200 U 0.00200 mg/Kg 12/11/23 13:38 12/12/23 01:20 0.00400 m-Xylene & p-Xylene <0.00400 U mg/Kg 12/11/23 13:38 12/12/23 01:20 <0.00200 U 0.00200 o-Xylene mg/Kg 12/11/23 13:38 12/12/23 01:20 Xylenes, Total <0.00400 U 0.00400 mg/Kg 12/11/23 13:38 12/12/23 01:20

MB MB

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 74 | | 70 - 130 | 12/11/23 13:38 | 12/12/23 01:20 | 1 |
| 1,4-Difluorobenzene (Surr) | 92 | | 70 - 130 | 12/11/23 13:38 | 12/12/23 01:20 | 1 |

Lab Sample ID: LCS 880-68841/1-A

Matrix: Solid

Analysis Batch: 68756

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 68841

| | Spike | LCS | LCS | | | | %Rec | |
|---------------------|-------|---------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | 0.100 | 0.09705 | | mg/Kg | | 97 | 70 - 130 | |
| Toluene | 0.100 | 0.1014 | | mg/Kg | | 101 | 70 - 130 | |
| Ethylbenzene | 0.100 | 0.07841 | | mg/Kg | | 78 | 70 - 130 | |
| m-Xylene & p-Xylene | 0.200 | 0.1920 | | mg/Kg | | 96 | 70 - 130 | |
| o-Xylene | 0.100 | 0.1058 | | mg/Kg | | 106 | 70 - 130 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 136 | S1+ | 70 - 130 |
| 1.4-Difluorobenzene (Surr) | 86 | | 70 - 130 |

Lab Sample ID: LCSD 880-68841/2-A

Matrix: Solid

Analysis Batch: 68756

| Client Sample ID: Lab | Control Sample Dup |
|-----------------------|---------------------|
| | Dren Times Tetal/NA |

Prep Type: Total/NA

Prep Batch: 68841

| | Бріке | LCSD LCSD | | | | %Rec | | RPD | |
|---------|--------------|------------------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Benzene | 0.100 | 0.08638 | mg/Kg | | 86 | 70 - 130 | 12 | 35 | |

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QC Sample Results

Client: Vertex Job ID: 890-5756-1 SDG: 23E - 05485 Project/Site: PLU 29 BIG SINKS

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

Lab Sample ID: LCSD 880-68841/2-A

Matrix: Solid

Analysis Batch: 68756

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 68841

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|---------|-----------|-------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Toluene | 0.100 | 0.1061 | | mg/Kg | | 106 | 70 - 130 | 5 | 35 |
| Ethylbenzene | 0.100 | 0.09885 | | mg/Kg | | 99 | 70 - 130 | 23 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.1787 | | mg/Kg | | 89 | 70 - 130 | 7 | 35 |
| o-Xylene | 0.100 | 0.09863 | | mg/Kg | | 99 | 70 - 130 | 7 | 35 |
| | | | | | | | | | |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 125 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 77 | | 70 - 130 |

Lab Sample ID: 890-5745-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 68756

Prep Type: Total/NA

Prep Batch: 68841

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|---------------------|-----------|-----------|--------|---------|-----------|-------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Benzene | <0.00199 | U | 0.0996 | 0.08256 | | mg/Kg | | 83 | 70 - 130 | |
| Toluene | < 0.00199 | U | 0.0996 | 0.09685 | | mg/Kg | | 97 | 70 - 130 | |
| Ethylbenzene | <0.00199 | U | 0.0996 | 0.08965 | | mg/Kg | | 90 | 70 - 130 | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.199 | 0.2057 | | mg/Kg | | 103 | 70 - 130 | |
| o-Xylene | <0.00199 | U | 0.0996 | 0.1012 | | mg/Kg | | 102 | 70 - 130 | |
| | | | | | | | | | | |

MS MS

| Surrogate | %Recovery | Qualifier | Limits |
|-----------------------------|-----------|-----------|----------|
| 4-Bromofluorobenzene (Surr) | 167 | S1+ | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 154 | S1+ | 70 - 130 |

Lab Sample ID: 890-5745-A-1-D MSD

Matrix: Solid

Analysis Batch: 68756

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 68841

| | | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|---|---------------------|-----------|-----------|--------|---------|-----------|-------|---|------|----------|-----|-------|
| | Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| | Benzene | <0.00199 | U | 0.0990 | 0.08316 | | mg/Kg | | 84 | 70 - 130 | 1 | 35 |
| | Toluene | < 0.00199 | U | 0.0990 | 0.09553 | | mg/Kg | | 96 | 70 - 130 | 1 | 35 |
| | Ethylbenzene | < 0.00199 | U | 0.0990 | 0.08776 | | mg/Kg | | 89 | 70 - 130 | 2 | 35 |
| | m-Xylene & p-Xylene | <0.00398 | U | 0.198 | 0.1742 | | mg/Kg | | 88 | 70 - 130 | 17 | 35 |
| | o-Xylene | < 0.00199 | U | 0.0990 | 0.08344 | | mg/Kg | | 84 | 70 - 130 | 19 | 35 |
| 1 | | | | | | | | | | | | |

MSD MSD

мв мв Result Qualifier

<50.0 U

| Surrogate | %Recovery | Qualifier | Limits | |
|-----------------------------|-----------|-----------|----------|--|
| 4-Bromofluorobenzene (Surr) | 151 | S1+ | 70 - 130 | |
| 1,4-Difluorobenzene (Surr) | 89 | | 70 - 130 | |

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

Lab Sample ID: MB 880-68852/1-A

Matrix: Solid

Analysis Batch: 68750

Gasoline Range Organics

Client Sample ID: Method Blank

Prepared

12/11/23 14:33

Prep Type: Total/NA Prep Batch: 68852

12/11/23 19:35

(GRO)-C6-C10

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50.0

Unit

mg/Kg

Project/Site: PLU 29 BIG SINKS

Client: Vertex

Job ID: 890-5756-1

SDG: 23E - 05485

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

Lab Sample ID: MB 880-68852/1-A

Matrix: Solid

Analysis Batch: 68750

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 68852

| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (Over | <50.0 | U | 50.0 | mg/Kg | | 12/11/23 14:33 | 12/11/23 19:35 | 1 |
| C10-C28) | | | | | | | | |
| Oll Range Organics (Over C28-C36) | <50.0 | U | 50.0 | mg/Kg | | 12/11/23 14:33 | 12/11/23 19:35 | 1 |
| | | | | | | | | |

MB MB

MR MR

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|----------------|---------------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 124 | 70 - 130 | 12/11/23 14:33 | 12/11/23 19:35 | 1 |
| o-Terphenyl | 134 S1+ | 70 - 130 | 12/11/23 14:33 | 12/11/23 19:35 | 1 |

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-68852/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 68750 Prep Batch: 68852

| | Spike | LCS | LCS | | | | %Rec | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Gasoline Range Organics | 1000 | 813.0 | | mg/Kg | | 81 | 70 - 130 | |
| (GRO)-C6-C10 | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 781.5 | | mg/Kg | | 78 | 70 - 130 | |
| C10-C28) | | | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 130 | | 70 - 130 |
| o-Terphenyl | 148 | S1+ | 70 - 130 |

Lab Sample ID: LCSD 880-68852/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 68750

Prep Type: Total/NA Prep Batch: 68852

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|-----------------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Gasoline Range Organics | 1000 | 877.4 | | mg/Kg | | 88 | 70 - 130 | 8 | 20 | |
| (GRO)-C6-C10 | | | | | | | | | | |
| Diesel Range Organics (Over | 1000 | 910.4 | | mg/Kg | | 91 | 70 - 130 | 15 | 20 | |
| C10-C28) | | | | | | | | | | |

LCSD LCSD Surrogate %Recovery Qualifier Limits

1-Chlorooctane 102 70 - 130 o-Terphenyl 117 70 - 130

Lab Sample ID: 880-36743-A-7-B MS

Matrix: Solid

Analysis Batch: 68750

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 68852

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <50.4 U F1 1000 701.6 F1 68 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 1000 722.3 F1 70 - 130 Diesel Range Organics (Over <50.4 UF1 mg/Kg

C10-C28)

| | IVIS | IVIS | |
|----------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1-Chlorooctane | 93 | | 70 - 130 |
| o-Terphenyl | 90 | | 70 - 130 |

Client: Vertex Job ID: 890-5756-1 SDG: 23E - 05485 Project/Site: PLU 29 BIG SINKS

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

Lab Sample ID: 880-36743-A-7-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 68750 Prep Type: Total/NA Prep Batch: 68852

Client Sample ID: Lab Control Sample Dup

Sample Sample Spike MSD MSD RPD Result Qualifier Added RPD Limit Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.4 U F1 1000 727.5 mg/Kg 71 70 - 130 4 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over <50.4 UF1 708.9 F1 mg/Kg 67 70 - 130 2

C10-C28)

MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 95 | | 70 - 130 |
| o-Terphenyl | 85 | | 70 - 130 |

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-68794/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 68825

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| Analyte | Result | Qualifier | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00 | U | 5.00 | mg/Kg | | | 12/11/23 14:35 | 1 |

Lab Sample ID: LCS 880-68794/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 68825

| | Spike | LCS | LCS | | | | %Rec | |
|----------|-------|--------|-----------|-------|---|------|----------|------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| Chloride | 250 | 255.4 | - | mg/Kg | | 102 | 90 - 110 | |

Lab Sample ID: LCSD 880-68794/3-A

Matrix: Solid

Analysis Batch: 68825

| | Spike | LCSD | LCSD | | | | %Rec | | RPD | |
|----------|-------|--------|-----------|-------|---|------|----------|-----|-------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | |
| Chloride | 250 | 253.3 | | mg/Kg | _ | 101 | 90 - 110 | 1 | 20 | |

Lab Sample ID: 890-5744-A-2-C MS

Matrix: Solid

Analysis Batch: 68825

| | Sample | Sample | Spike | MS | MS | | | | %Rec |
|----------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Chloride | 185 | | 249 | 434.6 | | mg/Kg | | 100 | 90 - 110 |

Lab Sample ID: 890-5744-A-2-D MSD

Released to Imaging: 3/7/2024 2:18:00 PM

Matrix: Solid

| Analysis Batch: 68825 | | | | | | | | | | | |
|-----------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Chloride | 185 | | 249 | 432.4 | | ma/Ka | | 100 | 90 - 110 | 1 | 20 |

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Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

 Client: Vertex
 Job ID: 890-5756-1

 Project/Site: PLU 29 BIG SINKS
 SDG: 23E - 05485

GC VOA

Analysis Batch: 68756

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5756-1 | BH23 - 03 4.5' | Total/NA | Solid | 8021B | 68841 |
| MB 880-68778/5-A | Method Blank | Total/NA | Solid | 8021B | 68778 |
| MB 880-68841/5-A | Method Blank | Total/NA | Solid | 8021B | 68841 |
| LCS 880-68841/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 68841 |
| LCSD 880-68841/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 68841 |
| 890-5745-A-1-C MS | Matrix Spike | Total/NA | Solid | 8021B | 68841 |
| 890-5745-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 68841 |

Prep Batch: 68778

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| MB 880-68778/5-A | Method Blank | Total/NA | Solid | 5035 | |

Prep Batch: 68841

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5756-1 | BH23 - 03 4.5' | Total/NA | Solid | 5035 | |
| MB 880-68841/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-68841/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-68841/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-5745-A-1-C MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-5745-A-1-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

Analysis Batch: 68941

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-5756-1 | BH23 - 03 4.5' | Total/NA | Solid | Total BTEX | |

GC Semi VOA

Analysis Batch: 68750

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-5756-1 | BH23 - 03 4.5' | Total/NA | Solid | 8015B NM | 68852 |
| MB 880-68852/1-A | Method Blank | Total/NA | Solid | 8015B NM | 68852 |
| LCS 880-68852/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 68852 |
| LCSD 880-68852/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 68852 |
| 880-36743-A-7-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 68852 |
| 880-36743-A-7-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 68852 |

Prep Batch: 68852

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-5756-1 | BH23 - 03 4.5' | Total/NA | Solid | 8015NM Prep | |
| MB 880-68852/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-68852/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-68852/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-36743-A-7-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-36743-A-7-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

Analysis Batch: 68905

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-5756-1 | BH23 - 03 4.5' | Total/NA | Solid | 8015 NM | |

Eurofins Carlsbad

Released to Imaging: 3/7/2024 2:18:00 PM

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QC Association Summary

 Client: Vertex
 Job ID: 890-5756-1

 Project/Site: PLU 29 BIG SINKS
 SDG: 23E - 05485

HPLC/IC

Leach Batch: 68794

| Lab Sample ID 890-5756-1 | Client Sample ID BH23 - 03 4.5' | Prep Type Soluble | Matrix Solid | Method DI Leach | Prep Batch |
|------------------------------------|---------------------------------|-------------------|--------------|-----------------|------------|
| MB 880-68794/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-68794/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-68794/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-5744-A-2-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-5744-A-2-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

Analysis Batch: 68825

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-5756-1 | BH23 - 03 4.5' | Soluble | Solid | 300.0 | 68794 |
| MB 880-68794/1-A | Method Blank | Soluble | Solid | 300.0 | 68794 |
| LCS 880-68794/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 68794 |
| LCSD 880-68794/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 68794 |
| 890-5744-A-2-C MS | Matrix Spike | Soluble | Solid | 300.0 | 68794 |
| 890-5744-A-2-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 68794 |

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Lab Chronicle

Client: Vertex Job ID: 890-5756-1 Project/Site: PLU 29 BIG SINKS SDG: 23E - 05485

Client Sample ID: BH23 - 03 4.5'

Lab Sample ID: 890-5756-1 Date Collected: 12/01/23 06:30

Matrix: Solid

Date Received: 12/08/23 08:00

| | Batch | Batch | | Dil | Initial | Final | Batch | Prepared | | |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Type | Method | Run | Factor | Amount | Amount | Number | or Analyzed | Analyst | Lab |
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 68841 | 12/11/23 13:38 | MNR | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 68756 | 12/12/23 09:59 | SM | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 68941 | 12/12/23 09:59 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 68905 | 12/12/23 03:59 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 68852 | 12/11/23 14:33 | TKC | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 68750 | 12/12/23 03:59 | SM | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 68794 | 12/11/23 10:29 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 68825 | 12/11/23 18:50 | CH | EET MID |

Laboratory References:

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

Accreditation/Certification Summary

 Client: Vertex
 Job ID: 890-5756-1

 Project/Site: PLU 29 BIG SINKS
 SDG: 23E - 05485

Laboratory: Eurofins Midland

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

| Authority | Progr | am | Identification Number | Expiration Date |
|-----------------|---------------------------------|---------------------------------|---|------------------------|
| Texas | NELA | Р | T104704400-23-26 | 06-30-24 |
| , | are included in this report, bu | ut the laboratory is not certif | fied by the governing authority. This lis | t may include analytes |
| Analysis Method | Prep Method | Matrix | Analyte | |
| 8015 NM | | Solid | Total TPH | |
| Total BTEX | | Solid | Total BTEX | |

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Method Summary

 Client: Vertex
 Job ID: 890-5756-1

 Project/Site: PLU 29 BIG SINKS
 SDG: 23E - 05485

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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:

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

Eurofins Carlsbad

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Sample Summary

Client: Vertex

Project/Site: PLU 29 BIG SINKS

Job ID: 890-5756-1

SDG: 23E - 05485

Lab Sample ID Client Sample ID Matrix Collected Received Depth 890-5756-1 BH23 - 03 4.5' Solid 12/01/23 06:30 12/08/23 08:00

-Work Order No: 181883 1001

Midland, TX (432)-704-5440, San Antonio, TX (210) 509-3334

Environment Testing

eurofins 🛟

Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

| | Xenco | | EL Paso, T. | ((915) 585-3443, Lub | EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 | | | |
|---|--|--|---|--|--|---|--|----------------------------|
| | | | Hobbs, Nr | A (5/5) 392-/550, Carl | Hobbs, NM (5/5) 392-7550, Carisbad, NM (5/5) 988-5199 | www.xenco.com | Pageof | |
| Project Manager: | Chance Dixon | 20 | Bill to: (if different) | Sarrett | itt Green | Work Order Comments | omments | |
| Company Name: | | | Company Name: | 770 | | Program: UST/PST | Brownfields ☐ RRC ☐ | Superfund |
| Address: | Dr. E.16 | | Address: | an I | E,16 | | | |
| City, State ZIP: | _ | | City, State ZIP: | \ | | Level III | PST/UST TRRP | Level IV |
| Phone: | | Email: | | | | Deliverables: EDD ADaf | ADaPT Other: | |
| Project Name: | P11170 RIDKINK | | Turn Around | | ANALYSIS REQUEST | EST | Preservative Codes | des |
| er: | 734-05USK | Rout | -ks | Pres. Code | | | None: NO DI | DI Water: H ₂ O |
| | P/11/79 | Due Date: | 12/13/23 | | | | Cool: Cool Me | MeOH: Me |
| | 1 1 | TAT starts th | TAT starts the day received by | | | | | HNO 3: HN |
| PO #: | | + | Т | | | | | PN:EC |
| SAMPLE RECEIPT | Temp Blank: | No Wet Ice: | | / 2 S / | 890-5756 Chain of Custody | of Custody | H ₃ PO ₄ : HP | |
| Samples Received Intact: | Ves No | Thermometer ID: | 0 | 0 | | | NaHSO 4: NABIS | |
| Cooler Custody Seals: | Yes No N/A | Correction Factor: | 6 | | | | Na ₂ S ₂ O ₃ : Na ₅ O ₃ | |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | 6 | X | | | Zn Acetate+NaOH: Zn | 200 |
| Total Containers: | Corre | Corrected Temperature: | 1,0 | H. | | | NaUH+Ascorbic Acid: SAPL | SAPL |
| Sample Identification | ication Matrix Sampled | ate Time | Depth Grab # | Z L Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z | 10 | | Sample Comments | ents |
| | - | | dung | | | | | |
| 8423-03 | 4.5' 501/12/12 | V23 6 . 50 | 4.5 | 7 | \ \ \ | | | |
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| | | | | | | | | |
| Total 200.7 / 6010 Circle Method(s) ar | Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed | 8RCR. | 8RCRA 13PPM Texas 11 AI S TCLP / SPLP 6010 : 8RCRA | Sb As Ba Be B Sb As Ba Be | Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni A Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U | I Mn Mo Ni K Se Ag SiO ₂ Na Sr se Ag Tl U Hg: 1631/245.1. | TI Sn U V Zn /7470 /7471 | |
| Notice: Signature of this docur | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any respon | titutes a valid purchase or shall not assume any resp | der from client company to f onsibility for any losses or ex | curofins Xenco, its affiliate penses incurred by the c | Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins 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 | ns and conditions yand the control | | |
| of Eurofins Xenco. Aminimun | n charge of \$85.00 will be applied to each | project and a charge of \$ | s for each sample submitted | to Euromns Aenco, but n | of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco. | Donoise Daniel Daniel Daniel Daniel | O O O O O | |
| Relinquished by: (Signature) | 1 | Received by: (Signature) | (e) | Date/Time | Kelinquisned by: (Signature) | ire) Received by: (Signature) | | ש |
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Login Sample Receipt Checklist

 Client: Vertex
 Job Number: 890-5756-1

 SDG Number: 23E - 05485

Login Number: 5756 List Source: Eurofins Carlsbad

List Number: 1

Creator: Bruns, Shannon

| 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. | N/A | Refer to Job Narrative for details. |
| 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 | |

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12/12/2023

Login Sample Receipt Checklist

Client: Vertex Job Number: 890-5756-1 SDG Number: 23E - 05485

Login Number: 5756 **List Source: Eurofins Midland** List Number: 2 List Creation: 12/11/23 08:54 AM

Creator: Rodriguez, Leticia

| 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? | 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 | N/A | |

<6mm (1/4").

<u>District I</u> 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

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**

QUESTIONS

Action 301291

QUESTIONS

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 301291 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Prerequisites | |
|------------------|--|
| Incident ID (n#) | nAPP2326151503 |
| Incident Name | NAPP2326151503 PLU 29 BIG SINKS WEST CTB @ 0 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Plan Received |

| Location of Release Source | |
|--|---------------------------|
| Please answer all the questions in this group. | |
| Site Name | PLU 29 BIG SINKS WEST CTB |
| Date Release Discovered | 09/07/2023 |
| Surface Owner | Federal |

| Incident Details | |
|--|------------------------|
| Please answer all the questions in this group. | |
| Incident Type | Produced Water Release |
| Did this release result in a fire or is the result of a fire | No |
| Did this release result in any injuries | No |
| Has this release reached or does it have a reasonable probability of reaching a watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| Nature and Volume of Release | |
|--|---|
| Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. | |
| Crude Oil Released (bbls) Details | Not answered. |
| Produced Water Released (bbls) Details | Cause: Corrosion Other (Specify) Produced Water Released: 13 BBL Recovered: 0 BBL Lost: 13 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | Yes |
| Condensate Released (bbls) Details | Not answered. |
| Natural Gas Vented (Mcf) Details | Not answered. |
| Natural Gas Flared (Mcf) Details | Not answered. |
| Other Released Details | Not answered. |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Interior corrosion caused a pin hole on the Bulk 701 6" CS water line and released fluids to pad. |

District I

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

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

6401 Holiday Hill Road

Midland, TX 79707

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

QUESTIONS, Page 2

Action 301291

| | QUESTIONS (continued) | |
|----------------|-----------------------|--|
| | OGRID: | |
| XTO ENERGY INC | 5380 | |

Action Number:
301291
Action Type:
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Operator:

| Nature and Volume of Release (continued) | | |
|---|---|--|
| Is this a gas only submission (i.e. only significant Mcf values reported) | No, according to supplied volumes this does not appear to be a "gas only" report. | |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC | No | |
| Reasons why this would be considered a submission for a notification of a major release | Unavailable. | |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form. | | |
| | | |

| nitial 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 | True | |
| The impacted area has been secured to protect human health and the environment | True | |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices | True | |
| All free liquids and recoverable materials have been removed and managed appropriately | True | |
| If all the actions described above have not been undertaken, explain why | Not answered. | |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: garrett.green@exxonmobil.com

Date: 01/08/2024

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

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**

QUESTIONS, Page 3

Action 301291

QUESTIONS (continued)

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 301291 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Site Characterization | |
|---|--------------------------------|
| Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs) | Less than or equal 25 (ft.) |
| What method was used to determine the depth to ground water | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water | No |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas: | |
| A continuously flowing watercourse or any other significant watercourse | Between ½ and 1 (mi.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Between 1 and 5 (mi.) |
| An occupied permanent residence, school, hospital, institution, or church | Greater than 5 (mi.) |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes | Between 1 and 5 (mi.) |
| Any other fresh water well or spring | Between 1 and 5 (mi.) |
| Incorporated municipal boundaries or a defined municipal fresh water well field | Greater than 5 (mi.) |
| A wetland | Between 1 and 5 (mi.) |
| A subsurface mine | Greater than 5 (mi.) |
| An (non-karst) unstable area | Between ½ and 1 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Medium |
| A 100-year floodplain | Between ½ and 1 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

| Remediation Plan | | |
|---|---|--|
| Please answer all the questions that apply or are indicated. This information must be | provided to the appropriate district office no later than 90 days after the release discovery date. | |
| Requesting a remediation plan approval with this submission | Yes | |
| Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. | | |
| Have the lateral and vertical extents of contamination been fully delineat | ted Yes | |
| Was this release entirely contained within a lined containment area | No | |
| Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) | | |
| Chloride (EPA 300.0 or SM4500 Cl B) | 9920 | |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) | 0 | |
| GRO+DRO (EPA SW-846 Method 8015M) | 0 | |
| BTEX (EPA SW-846 Method 8021B or 8260B) | 0 | |
| Benzene (EPA SW-846 Method 8021B or 8260B | 3) 0 | |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. | | |
| On what estimated date will the remediation commence | 01/04/2024 | |
| On what date will (or did) the final sampling or liner inspection occur | 01/04/2024 | |
| On what date will (or was) the remediation complete(d) | 01/10/2024 | |
| What is the estimated surface area (in square feet) that will be reclaime | ed 3700 | |
| What is the estimated volume (in cubic yards) that will be reclaimed | 175 | |
| What is the estimated surface area (in square feet) that will be remedia | ted 3700 | |
| What is the estimated volume (in cubic yards) that will be remediated | 175 | |
| These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. | | |
| The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to | | |

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

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

QUESTIONS, Page 4

Action 301291

QUESTIONS (continued)

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 301291 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Demodiation Plan (continued) | | |
|---|--|--|
| Remediation Plan (continued) | | |
| Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. | | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | | |
| (Select all answers below that apply.) | | |
| (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) | Yes | |
| Which OCD approved facility will be used for off-site disposal | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] | |
| OR which OCD approved well (API) will be used for off-site disposal | Not answered. | |
| OR is the off-site disposal site, to be used, out-of-state | Not answered. | |
| OR is the off-site disposal site, to be used, an NMED facility | Not answered. | |
| (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) | Not answered. | |
| (In Situ) Soil Vapor Extraction | Not answered. | |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) | Not answered. | |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) | Not answered. | |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) | Not answered. | |
| Ground Water Abatement pursuant to 19.15.30 NMAC | Not answered. | |
| OTHER (Non-listed remedial process) | Not answered. | |
| OTHER (Non-listed remedial process) | | |

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Garrett Green Title: SHE Coordinator

Email: garrett.green@exxonmobil.com

Date: 01/08/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

QUESTIONS, Page 5

Action 301291

| QUESTIONS | (continued) |
|------------|-------------------|
| QUESTIONS: | COHUHUCU <i>1</i> |

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 301291 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Deferral Requests Only | |
|--|----|
| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. | |
| Requesting a deferral of the remediation closure due date with the approval of this submission | No |

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

QUESTIONS, Page 6

Action 301291

QUESTIONS (continued)

| Operator: | OGRID: |
|------------------------|--|
| XTO ENERGY, INC | 5380 |
| 6401 Holiday Hill Road | Action Number: |
| Midland, TX 79707 | 301291 |
| | Action Type: |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) |

QUESTIONS

| Sampling Event Information | | |
|---|------------|--|
| Last sampling notification (C-141N) recorded | 308067 | |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 01/30/2024 | |
| What was the (estimated) number of samples that were to be gathered | 7 | |
| What was the sampling surface area in square feet | 1400 | |

| Remediation Closure Request | | |
|--|----|--|
| Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. | | |
| Requesting a remediation closure approval with this submission | No | |

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

CONDITIONS

Action 301291

CONDITIONS

| Operator: | OGRID: | |
|------------------------|--|--|
| XTO ENERGY, INC | 5380 | |
| 6401 Holiday Hill Road | Action Number: | |
| Midland, TX 79707 | 301291 | |
| | Action Type: | |
| | [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan) | |

CONDITIONS

| Created B | y Condition | Condition Date |
|-----------|-------------|-------------------|
| scwells | None | 3/7/2024 |