

RECLAMATION REQUEST REPORT

Ross Draw Unit #011
Eddy County, New Mexico
Incident Numbers:

nAB1728553778 nAB1728551205 nHMP1412241998

Prepared For:
WPX Energy Permian, LLC
5315 Buena Vista Dr.
Carlsbad, NM 88220

Carlsbad ● Houston ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Reclamation Request Report (RRR) to document reclamation activities completed to date, for three inadvertent releases of crude oil and/or produced water at the Ross Draw Unit #011 (Site) (**Figure 1** in **Appendix A**). Based on the recently approved Closure Request Reports (CRR) and completed Site restoration activities, WPX believes No Further Action (NFA) is warranted until the next favorable growing season in order to re-establish vegetation in areas disturbed by remediation activities.

SITE BACKGROUND

nHMP1412241998, nAB1728553778, and nAB1728551205

Between October 6, 2023, and October 30, 2023, excavation activities were performed in adherence with an approved Remediation Work Plan (RWP). Approximately 1,671 cubic yards (CY) of impacted soil removed from the Site was transported to R360 Antelope Draw in Jal, New Mexico under WPX approved manifests. Laboratory analytical results for excavation confirmation soil samples indicated all concentrations of COCs were below the applicable Site Closure Criteria and/or reclamation standard. A CRR was prepared detailing the remediation summaries and was approved by the New Mexico Oil Conservation Division (NMOCD) on March 20, 2024, for Incident Numbers nAB1728553778 and nAB1728551205.

nHMP1412241998

On October 30, 2023, Etech conducted delineation activities to assess the presence and/or absence of residual impacts along a Path of Investigation (POI) as detailed in the RWP. Laboratory analytical results for all delineation soil samples collected from the POI indicated all analyzed COCs were below the applicable Site Closure Criteria and/or reclamation standard. A CRR was prepared detailing the remediation summary and was approved by the NMOCD on March 20, 2024.

RECLAMATION ACTIVITIES

Upon receipt of final laboratory analytical results for confirmation excavation soil samples, the excavation measured approximately 11,284 square feet (sqft) and was backfilled with approximately 1,671 cubic yards (CY) of clean, locally sourced soil to restore the Site to "as close to its original state" as possible (**Figure 2** in **Appendix A**). The final soil cover was contoured to match the Site's pre-existing grade to prevent ponding of water and erosion. WPX will utilize the Bureau of Land Management (BLM) Seed Mixture 4 (Gypsum Sites) which will be hand-broadcasted over the entire disturbed area in the next favorable growing season following BLM guidelines (**Appendix B**), which will provide the maximum results of vegetation regrowth and ground surface coverage to match pre-existing conditions at the Site.

On May 2, 2024, Etech assessed the backfill material for its capacity to host vegetative growth. Two representative 5-point composite soil samples were collected from the soil cover within the excavation area (SC01 and SC02) and one discrete soil sample was collected in a native soil area outside of the excavation area (BG01) at 0.5-foot bgs via hand shovel and field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips, and qualitatively evaluated for nutrient density of pH, Nitrogen (N), Phosphorus (P), and Potassium (K) utilizing a HoldAll® Soil Test Kit according to the operating manual, which is included in **Appendix C**.

Field screening results indicated the backfill material appears to correlate with surrounding soil conditions currently supporting native vegetative growth, as summarized in **Table 1** included in **Appendix D**. The

location of the restoration areas and field screened soil sample locations are shown in **Figure 2** in **Appendix A**. Photographic documentation of restoration activities is included in **Appendix E**.

RECLAMATION APPROVAL REQUEST

Based on the field assessment of the backfill activities, WPX believes the soil cover of the excavation area has been restored "as close to its original state" as possible in order to promote vegetative regrowth. Completed restoration activities meet requirements set forth in NMAC 19.15.29.13 regulations and WPX respectfully requests approval of this RRR associated with Incident Numbers nHMP1412241998, nAB1728553778 and nAB1728551205. As such, NFA appears warranted until the next favorable growing season, when the Site will be re-seeded via hand-broadcast method with BLM Seed Mixture 4.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Erick Herrera (432) 305-6416 or erick@etechenv.com. Appendix F provides correspondence email notification receipts associated with the subject releases. Referenced CRRs associated with Incident Numbers nHMP1412241998, nAB1728553778, and nAB1728551205 is provided in Appendix G.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erick Herrera Staff Geologist

Senior Managing Geologist

Joseph S. Hernandez

cc:

Jim Raley, WPX

New Mexico Oil Conservation Division

Bureau of Land Management

Appendices:

Appendix A: Figure 1: Site Map

Figure 2: Restoration Area

Appendix B: BLM Seed Mixture 4, for Gypsum Sites

Appendix C: HoldAll© Operating Manual

Appendix D: Tables

Appendix E: Photographic Logs

Appendix F: Correspondence & Notifications

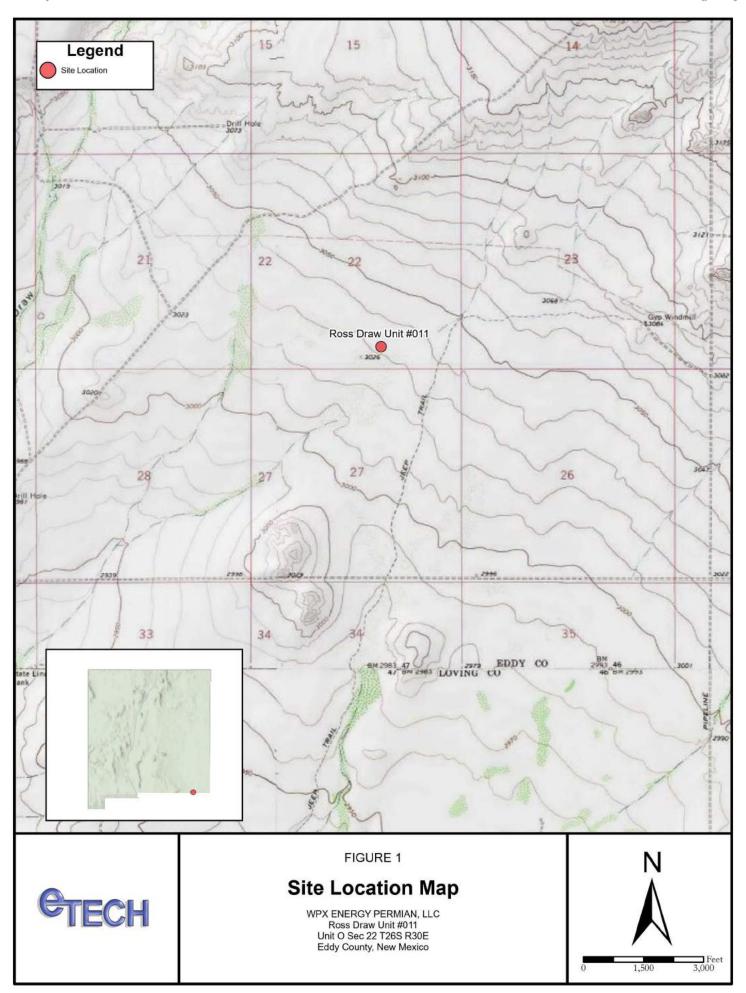
Appendix G: Archived Reports

APPENDIX A

Figures

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213







APPENDIX B

BLM Seed Mixture 4, for Gypsum Sites

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EXHIBIT Date BLM Serial No.: Company Reference:

Mixture 4, for Gypsum Sites

The holder shall seed all the disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

<u>Species</u>	<u>lb/acre</u>
Alkali Sacaton (<i>Sporobolus airoides</i>) DWS~ Four-wing saltbush (<i>Atriplex canescens</i>)	1.5 8.0

~DWS: DeWinged Seed

*Pounds of pure live seed:

Pounds of seed **x** percent purity **x** percent germination = pounds pure live seed

APPENDIX C

HoldAll© Operating Manual

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40 TESTS DIRECTIONS INSIDE

SOIL TEST KIT





Grasses & Lawns



Fruits & Veggies



Trees & Shrubs

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SOIL TEST KIT

Tests Your Soil for a Healthy Garden

• pH • Nitrogen(N) • Phosphorus(P) • Potassium(K) •

PREPARING YOUR SOIL SAMPLES

For lawns, annuals or house plants, take the soil sample from about 2-3" below the surface. For perennials especially shrubs, vegetables and fruit, the sample should be from 4" deep.

Avoid touching the soil with your hands. Test different areas of your soil, as it may differ according to past cultivation, underlying soil differences or a localized condition. It is preferable to make individual tests on several samples from different areas, than to mix the samples together.

Place your soil sample into a clean container. Break the sample up with the trowel or spoon and allow it to dry out naturally. This is not essential, however it makes working with the sample easier. Remove any small stones, organic material such as grass, weeds or roots and hard particles of lime. Then crumble the sample finely and mix it thoroughly.

HOW TO TEST YOUR SOIL:

Tube caps and capsules are color-coded for simplicity:

Green = pH Purple = Nitrogen
Blue = Phosphorus Orange = Potash

pH TEST:

- 1. Remove cap from the green capped tube.
- 2. Fill tube with soil to the first line.
- Carefully open a green capsule and pour powder into the tube.
- 4. Add water (preferably distilled) to the fourth line.
- 5. Cap tube and shake thoroughly.
- 6. Allow soil to settle and color to develop for about a minute.
- **7.** Compare color of solution to the pH color chart. Repeat for remaining capsules.



pH 7.5 - Alkaline

pH 7.0 - Neutral

pH 6.5 - Slight A

pH 6.0 - Acid

pH 5.5 - Acid

pH 5.0 - Very Acid

NITROGEN, PHOSPHORUS & POTASH TESTS:

Fill a clean jar or can with 1 part soil and 5 parts water. Thoroughly shake or stir the soil and water together for at least one minute and then allow the mixture to stand undisturbed until it settles (30 minutes to 24 hours, dependent on soil). A fine clay soil will take much longer to settle out than a course sandy soil. The clarity of the solution will also vary, the clearer the better, however cloudiness will not affect the accuracy of the test.

PLANT FOOD C	HART	
Nitrogen	Phosphorous	Potash
High	High	High
Medium	Medium	Medium
Low	Low	Low
Very Low	Very Low	Very Low

1. Remove the cap from the tube. (Please note that the color of the capsules should match the color of the tube cap.) Using dropper provided, fill the tube to the fourth line with liquid from your soil mixture. Avoid disturbing the sediment

pH 4.5 - Very Acid

- **2.** Carefully separate the two halves of one of the capsules. Pour the powder into the tube.
- **3.** Cap the tube and shake thoroughly. Allow color to develop for 10 minutes.
- **4.** Compare color of solution to the appropriate portion of the plant food color chart. For best results allow daylight, not direct sunlight, to illuminate the solution. Note your results. Repeat for remaining capsules.

TO RAISE OR LOWER pH OF YOUR SOIL

Raising and lowering pH is not an exact science & most plants have a reasonably wide tolerance, certainly to within 1 pH point. Consult the pH Preference List and you will see that the majority can manage well on a pH around 6.5 but some need an alkaline soil

and some a particularly acid soil. Altering pH takes time so do not expect rapid changes; rather, work steadily towards giving a plant its ideal conditions.

ADJUSTING pH

pH can be adjusted to provide more suitable growing conditions for the different plants you wish to grow. Or, you can leave the pH of the soil as it is and select plants that like the level revealed by your test. Once you have your pH reading, check the pH Preference List for the pH levels of over 450 popular plants, trees, shrubs, vegetables and fruits. If your pH reading differs significantly from the list's recommended levels, follow instructions below for adjusting soil pH. You can correct pH at any time of the year but it

is best to start in the Fall and check progress in the Spring. After working to adjust your soil, retest for pH level in 40-60 days. If results are still significantly off, retreat your soil, not exceeding recommended application levels. Allow one month to pass between adding lime and adding fertilizers.

SOIL TYPES

Sandy Soils: A light, coarse soil comprised of crumbling and alluvial debris.

Loam Soils: A medium friable soil, consisting of a blend of coarse (sand) alluvium and fine (clay) particles mixed within fairly broad limits with a little lime and humus.

Clay Soils: A heavy, clinging, impermeable

soil, comprised of very fine particles with little lime and humus and tending to be waterlogged in winter and very dry in summer.

ADJUSTING SOIL pH - HOW MUCH TO APPLY

Material	phChange	Sandy	Loamy	Clay
Dolomitic or Calcic	+0.5 unit (0.5 pH)	2.5	2.5	2.5
Limestone	+1.0 unit (1.0 pH)	5.0	5.0	5.0
Hydrated Lime	+0.5 unit (0.5 pH)	1.25 - 2.0	1.25 - 2.0	1.25 - 2.0
	+1.0 unit (1.0 pH)	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Iron Sulfate	-0.5 unit (0.5 pH)	0.75	0.75	0.75
	-1.0 unit (1.0 pH)	1.5	1.5	1.5
Aluminum Sulfate	-0.5 unit (0.5 pH)	0.5 - 0.75	0.5 - 0.75	0.5 - 0.75
	-1.0 unit (1.0 pH)	1 - 1.25	1 - 1.25	1 - 1.25

Amounts listed are pounds per 100 square feet. Do not add more than 5lbs. of lime or sulfur in one application.

FERTILIZER RECOMMENDATIONS

FEEDING PRIOR TO PLANTING

Adequate reserves of plant food should be available in the soil before planting vegetables, preparing a seed or flower bed, sodding or seeding a lawn, or planting shrubs and trees. To make up any deficiencies, apply fertilizers from the following chart according to your soil test result.

Very			
Low	Low	Medium	High
36	19	6	N/A
27	14	3	N/A
27	14	6	N/A
10.25	5.25-5.5	2.25	N/A
8.75-9	4.75-5	2.25-2.5	N/A
	27 10.25	Low Low 36 19 27 14 27 14 10.25 5.25-5.5	Low Medium 36 19 6 27 14 3 27 14 6 10.25 5.25-5.5 2.25

Amounts listed are ounces per 100 square feet. (Ounces referred to are by weight)

FEEDING ESTABLISHED PLANTS AND BEDS

Based on your test results, apply the appropriate fertilizer(s) in the amounts recommended in the following chart.

RECOMMENDATIONS FOR N. P AND K RESULTS

	Very Low			Low			Medium		
	N	P	K	N	P	K	N	P	K
Lawn	22.0-22.5	0.75-1.0	4.75-5.0	14.0-14.5	1.0-1.5	2.25-2.5	3.75-4.0	0	0
Fruit	14.0-14.5	6.5	13.5-14.0	7.75-8.0	4.0-4.25	8.75-9.0	3.75-4.0	2.25	4.75-5.0
Flower	14.0-14.25	6.5	13.5-14.0	7.75-8.0	4.0-4.25	8.75-9.0	3.75-4.0	2.25	4.75-5.0
Shrubs (flowering)	14.0-14.25	8.25-8.5	13.5-14.0	7.75-8.0	4.0-4.25	8.75-9.0	3.75-4.0	1.0-1.25	4.75-5.0
Shrubs (foliage)	22.0-22.5	10.5-10.75	8.75-9.0	14.0-14.5	5.25-5.5	4.75-5.0	3.75-4.0	2.25	2.25-2.5
Veggies (root)	14.0-14.25	12.0-12.25	8.75-9.0	14.0-14.5	5.25-5.5	4.75-5.0	3.75-4.0	3.0	2.25-2.5
Veggies (leafy)	28.25-29.0	10.25	8.75-9.0	14.0-14.5	5.25-5.5	4.75-5.0	7.75-8.0	2.25	2.25-2.5
Tree	14.0-14.5	10.25	8.75-9.0	7.75-8.0	5.25-5.5	4.75-5.0	3.75-4.0	2.25	2.25-2.5
General Feed	22.0-22.5	8.25-8.5	8.75-9.0	10.5-11.0	4.0-4.25	4.75-5.0	3.75-4.0	1.0-1.25	2.25-2.5

	N	P	
	N/A	N/A	
	N/A	N/A	
	N/A	N/A	
g)	N/A	N/A	

High

Shrubs (flowering Shrubs (foliage) Veggies (root) Veggies (leafy) Tree General Feed

Lawn

Fruit

Flower

N		_ N	- 6
N/A	N/A	N/A	

The recommendations are based on the following fertilizers sources: Nitrate of Soda (16% N), Triple Superphosphate (46% P205) and Muriate of Potassium (60% K20). The amounts listed are in oz. /100 sq. ft. (Ounces referred to are by weight, not volume.) If you wish to use other fertilizer, simply check the package for the percentage of nutrients for N, P, & K and adjust the application level accordingly.

SPECIAL RECOMMENDATIONS FOR LAWNS

For a new lawn, pay special attention to soil preparation before planting. Proper soil preparation for any size lawn will have a significant impact on the amount of water and care it demands in the future. Till the soil to a depth of at least 12" and incorporate plenty of organic material (9" or more). Test your soil for pH and adjust to the levels recommended on pH Preference List for your type of grass. Refer to the Adjusting Soil pH chart for recommended lime or sulfate applications.

For established lawns, Nitrogen is the most essential nutrient to promote lush growth and deep, green color. Phosphorus and Potassium, in lesser quantities, are also important for strong root formation and growth. Compound fertilizers will supply all 3 nutrients, or you can select an individual fertilizer, such as Nitrate of Soda. The following chart gives recommended application levels specifically for lawns, based on your Nitrogen soil test results.

RECOMMENDATIONS FOR LAWNS

Very Low

24-4-4	4.0 lbs.	2.0 lbs.
24-3-4	3.1 lbs.	1.55 lbs.
30-4-4	3.0 lbs.	1.5 lbs.
	Medium	High
24-4-4	Medium 1.0 lbs.	High N/A
24-4-4 24-3-4		CV-05-51477

Amounts listed are pounds per 1000 square feet.

SAFETY & HYGIENE

Dispose of test solutions by rinsing down the sink. Empty gelatin capsules should be disposed of immediately with household waste. Wash the test tubes and caps in warm, soapy water immediately after each use. Make sure any sediment or color staining is removed. Rinse well and dry. Each bag of capsules should be stored inside the blister. Fit the caps on each test tube. Place all components back into the package. The blister pack has been specially designed to be reused as a storage

Store your kit in clean, dry conditions, indoors. The powders are safe in normal domestic terms but like all chemicals and pharmaceuticals, they should be put away and kept out of reach of children. Try to avoid touching the powders. Always wash your hands thoroughly after making your tests. Do not eat, drink or smoke while using the soil test kit. Keep powders away from food, drink and animal feed. If taken internally, drink copious amounts of water and seek medical advice.

CAUTIONS

Fertilzer Type

Where a lot of fertilizer is needed to correct one plant food, divide the applications over several weeks. Do not add lime and fertilizer together; lime first. Allow at least one month to pass before applying fertilizer. Retest 30 days after applying fertilizer.



Plant pH Preference List

Decora	uve i idiler	ccessories							
NAME	pН	NAME VEGETABLES AND H	pH	NAME HOUSE and GREENHOUSE	pH DI ANTO	NAME FLOWERS, T	pH	NAME ELOWERS TO	pH
APPLE	5.0 - 6.5	SAGE	5.5 - 6.5	GENISTA GREENHOUSE	6.5 - 7.5	AND SHRUB		FLOWERS, TE AND SHRU	
APRICOT	6.0 - 7.0	SHALLOT	5.5 - 7.0	GERANIUM	6.0 - 8.0	ASPERULA	6.0 - 8.0	LAUREL	6.5 - 7.5
AVOCADO	6.0 - 7.5	SORGHUM	5.5 - 7.5	GLOXINIA	5.5 - 6.5	ASPHODOLINE	6.0 - 8.0	LAVENDER	6.5 - 7.5
BANANA	5.0 - 7.0	SOYBEAN	5.5 - 6.5	GRAPE IVY	5.0 - 6.5	ASTER	5.5 - 7.5	LIATRIS	5.5 - 7.5
BLACKBERRY	5.0 - 6.0	SPEARMINT	5.5 - 7.5	GRAPE HYACINTH	6.0 - 7.5	AUBRITA	6.0 - 7.5	LIGUSTRUM	5.0 - 7.5
BLUEBERRY	4.0 - 6.0	SPINACH	6.0 - 7.5	GREVILLEA	5.5 - 6.5	AZALEA	4.5 - 6.0	LILAC	6.0 - 7.5
CANTALOUPE	6.5 - 7.5	SWEDE	5.0 - 7.0	GYNURA	5.5 - 6.5	BALLOON FLOWER	6.0 - 6.5	LILY OF THE VALLEY	4.5 - 6.0
CHERRY	6.0 - 7.5	THYME	5.5 - 7.0	HEDERA (IVY)	6.0 - 8.0	BAYBERRY	4.0 - 6.0	LITHOSPERMUM	5.0 - 6.5
CRANBERRY	5.5 - 6.5	TOMATO	5.5 - 7.5	HELIOTROPIUM	5.0 - 6.0	BERGENIA	6.0 - 7.5	LOBELIA	6.5 - 7.5
CURRANT: Black Red	6.0 - 8.0 5.5 - 7.0	TURNIP WATER CRESS	5.5 - 7.0 6.0 - 8.0	HENS AND CHICKENS HERRINGBONE PLANT	6.0 - 7.0 6.0 - 6.0	BLEEDING HEART BLUEBELL	6.0 - 7.5 6.0 - 7.6	LUPINUS MAGNOLIA	5.5 - 7.0 5.0 - 6.0
White	6.0 - 8.0	HOUSE and GREENHOUS		HIBISCUS PLANT	6.0 - 8.0	BROOM	5.0 - 6.0	MAHONIA	6.0 - 7.0
DAMSON	6.0 - 7.5	ABUTILON	5.5 - 6.5	HOYA	5.0 - 6.5	BUDDLEIA	6.0 - 7.0	MARIGOLD	5.5 - 7.0
GOOSEBERRY	5.0 - 6.5	ACORUS	5.0 - 6.5	IMPATIENS	5.5 - 6.5	BUPHTHALUM	6.0 - 8.0	MOLINIA	4.0 - 5.0
GRAPEVINE	6.0 - 7.0	AECHMEA	5.0 - 5.5	IVY TREE	6.0 - 7.0	BUTTERFLY BUSH	4.0 - 6.0	MORAEA	5.5 - 6.5
GRAPEFRUIT	6.0 - 7.5	AFRICAN VIOLET	6.0 - 7.0	JACARANDA	6.0 - 7.5	CALENDULA	5.5 - 7.0	MORNING GLORY	6.0 - 7.5
HAZELNUT	6.0 - 7.0	AGLAONEMA	5.0 - 6.0	JAPANESE SEDGE	6.0 - 8.0	CAMASSIA	6.0 - 8.0	MOSS	6.0 - 8.0
HOP	6.0 - 7.5	AMARYLIS	5.5 - 6.5	JASMINUM	5.5 - 7.0	CANDYTUFT	6.0 - 7.5	MOSS, SPHAGNUM	3.5 - 5.0
HUCKLEBERRY	4.0 - 6.0	ANTHURIUM	5.0 - 6.0	JERUSALEM CHERRY	5.5 - 6.5	CANNA	6.0 - 8.0	MYOSOTIS	6.0 - 7.0
LEMON	6.0 - 7.0	APHELANDRA	5.0 - 6.0	JESSAMONE	5.0 - 6.0	CANTERBURY BELLS	7.0 - 7.5	NARCISSUS	6.0 - 8.5
LYCHEE	6.0 - 7.0	ARAUCARIA	5.0 - 6.0	KALANCHOE	6.0 - 7.5	CARDINAL FLOWER	4.0 - 6.0	NASTURTIUM	5.5 - 7.5
MANGO	5.0 - 6.0	ASPARAGUS FERN ASPIDISTRA	6.0 - 8.0	KANGAROO THORN	6.0 - 8.0	CARNATION	6.0 - 7.5	NICOTIANA	5.5 - 6.5
MELON MULBERRY	5.5 - 6.5 6.0 - 7.5	AZAELA	4.0 - 5.5 4.5 - 6.0	KANGAROO VINE LANTANA	5.0 - 6.5 5.5 - 7.0	CATALPA CELOSIA	6.0 - 8.0 6.0 - 7.0	PACHYSANDRA PAEONIA	5.0 - 8.0 6.0 - 7.5
NECTARINE	6.0 - 7.5	BABY'S BREATH	6.0 - 7.5	LAURUS (BAY TREE)	5.0 - 6.0	CENTAUREA	5.0 - 6.5	PANSY	5.5 - 7.0
PEACH	6.0 - 7.5	BABY'S TEARS	5.0 - 6.0	LEMON PLANT	6.0 - 7.5	CERASTIUM	6.0 - 7.0	PASSION FLOWER	6.0 - 8.0
PEAR	6.0 - 7.5	BEGONIA	5.5 - 7.0	MIMOSA	5.0 - 7.0	CHRYSANTHEMUM	6.0 - 7.0	PASQUE FLOWER	5.0 - 6.0
PINEAPPLE	5.0 - 6.0	BIRD OF PARADISE	6.0 - 6.5	MIND YOUR OWN BUSINESS	5.0 - 5.5	CISSUS	6.0 - 7.5	PAULOWNIA	6.0 - 8.0
PLUM	6.0 - 7.5	BISHOP'S CAP	5.0 - 6.0	MONSTERA	5.0 - 6.0	CISTUS	6.0 - 7.5	PENSTEMON	5.5 0 7.0
POMEGRANATE	5.5 - 6.5	BLACK-EYED SUSAN	5.5 - 7.5	MYRTLE	6.0 - 8.0	CLARKIA	6.0 - 6.5	PERIWINKLE	6.0 - 7.5
QUINCE	6.0 - 7.5	BLOOD LEAF	5.5 - 6.5	NEVER NEVER PLANT	5.0 - 6.0	CLIANTHUS	6.0 - 7.5	PETUNIA	6.0 - 7.5
RASPBERRY	5.0 - 7.5	BOTTLEBRUSH	6.0 - 7.5	NICODEMIA (INDOOR OAK)	6.0 - 8.0	CLEMATIS	5.5 - 7.0	PINKS	6.0 - 7.5
RHUBARB	5.5 - 7.0	BOUGAINVILLEA	5.5 - 7.5	NORFOLK ISLAND PINE	5.0 - 6.0	COLCHICUM	5.5 - 6.5	POLYGONUM	6.0 - 7.5
STRAWBERRY	5.0 - 7.5	BOXWOOD	6.0 - 7.5	OLEANDER	6.0 - 7.5	COLUMBINE	6.0 - 7.0	POLYANTHUS	6.0 - 7.5
WATERMELON	5.5 - 6.5	BROMELIADS	5.0-7.5	OPLISMENUS	5.0 - 6.0	CONVOLVULUS	6.0 - 8.0	POPPY	6.0 - 7.5
VEGETABLES AN	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	BUTTERFLY FLOWER CACTI	6.0 - 7.5 4.5 - 6.0	ORCHID OXALIS	4.5 - 5.5 6.0 - 8.0	COREOPSIS CORONILLA	5.0 - 6.0 6.5 - 7.5	PORTULACA PRIMROSE	5.5 - 7.5 5.5 - 6.5
ARTICHOKE ASPARAGUS	6.5 - 7.5 6.0 - 8.0	CALCAOLARIA	6.0 - 7.0	PALMS	6.0 - 7.5	CORYDALIS	6.0 - 8.0	PRIMULA	6.0 - 7.5
BASIL	5.5 - 6.5	CALADIUM	5.0 - 6.0	PANDANUS	5.0 - 6.0	COSMOS	5.0 - 8.0	PRIVET	5.0 - 7.5
BEAN	6.0 - 7.5	CALLA LILY	6.0 - 7.0	PEACOCK PLANT	5.0 - 6.0	COTTONEASTER	6.0 - 8.0	PRUNELLA	6.0 - 7.5
(Runner, Broad, French)		CAMELIA	4.5 - 5.5	PELLIONIA	5.0 - 6.0	CRAB APPLE	6.0 - 7.5	PRUNUS	6.5 - 7.5
BEETROOT	6.0 - 7.5	CAMPANULA	5.5 - 6.5	PEPEROMIA	5.0 - 6.0	CROCUS	6.0 - 8.0	PYRETHRUM	6.0 - 7.5
BROCCOLI	6.0 - 7.0	CAPSICUM	5.0 - 6.5	PHILODENDRON	5.0 - 6.0	CYNOGLOSSUM	6.0 - 7.5	RED HOT POKER	6.0 - 7.5
BRUSSELS SPROUTS	6.0 - 7.5	CARDINAL FLOWER	5.0 - 6.0	PILEA	6.0 - 8.0	DAFFODIL	6.0 - 6.5	RHODODENDREN	4.5 - 6.0
CABBAGE	6.0 - 7.5	CASTOR OIL PLANT	5.5 - 6.5	PLUMBAGO	5.5 - 6.5	DAHLIA	6.0 - 7.5	ROSES:	
CALABRESE	6.5 - 7.5	CANTURY PLANT	5.0 - 6.5	PODACARPUS	5.0 - 6.5	DAY LILY	6.0 - 8.0	HYBRID TEA	5.5 - 7.0
CARROT	5.5 - 7.0	CHINESE EVERGREEN	5.0 - 6.0	POINTSETTIA	6.0 - 7.5	DELPHINIUM	6.0 - 7.5	CLIMBING	6.0 - 7.0
CAULIFLOWER	5.5 - 7.5 6.0 - 7.0	CHINESE PRIMROSE	6.0 - 7.5	POLYSCIAS	6.0 - 7.5	DEUTZIA	6.0 - 7.5	RAMBLING	5.5 - 7.0
CELERY CHICORY	5.0-6.5	CHRISTMAS CACTUS CINERARIA	5.0 - 6.5 5.5 - 7.0	POTHOS PRAYER PLANT	5.0 - 6.0 5.0 - 6.0	DIANTHUS DOGWOOD	6.0 - 7.5 5.0 - 7.0	SALVIA SCABIOSA	6.0 - 7.5 5.0 - 7.5
CHINESE CABBAGE	6.0 - 7.5	CLERODENDRUM	5.0 - 6.0	PUNICA	5.5 - 6.5	EDELWEISS	6.5 - 7.5	SEDUM	6.0 - 7.5
CHIVES	6.0 - 7.0	CLIVIA	5.5 - 6.5	SANSERIERIA	4.5 - 7.0	ELAEAGNUS	5.0 - 7.5	SNAPDRAGON	5.5 - 7.0
CORN - SWEET	5.5 - 7.0	COCKSCOMB	6.0 - 7.0	SAXIFRAGA	6.0 - 8.0	ENKIANTHUS	5.0 - 6.0	SNOWDROP	6.0 - 8.0
CRESS	6.0 - 7.0	COFFEE PLANT	5.0 - 6.0	SCINDAPSUS	5.0 - 6.0	ERICA	4.5 - 6.0	SOAPWORT	6.07.5
COURGETTES	5.5 - 7.0	COLEUS	6.0 - 7.0	SHRIMP PLANT	6.0 - 7.0	EUPHORBIA	6.0 - 7.0	SPEEDWELL	5.5 - 6.5
CUCUMBER	5.5 - 7.5	COLUMNEA	4.5 - 5.5	SPANISH BAYONET	6.0 - 7.5	EVERLASTINGS	5.0 - 6.0	SPIRAEA	6.0 - 7.5
FENNEL	5.0 - 6.0	CORAL BERRY	5.5 - 7.5	SPIDER PLANT	6.0 - 7.5	FIRETHORN	6.0 - 8.0	SPRUCE	4.0 - 5.0
GARLIC	5.5 - 7.5	CRASSULA	5.0 - 6.0	SUCCULENTS	5.0 - 6.5	FORGET-ME-NOTS	6.0 - 7.0	STOCK	6.0 - 7.5
GINGER	6.0 - 8.0	CREEPING FIG	5.0 - 6.0	SYNOGONIUM	5.0 - 6.0	FORSYTHIA	6.0 - 8.0	STONECROP	6.5 - 7.5
HORSERADISH	6.0 - 7.0	CROTON CROWN OF THORNS	5.0 - 6.0	TOLMIEA	5.0 - 6.0	FOXGLOVE	6.0 - 7.5	SUMACK	5.0 - 6.5
KALE KOHLRABI	6.0 - 7.5 6.0 - 7.5	CROWN OF THORNS CUPHEA	6.0 - 7.5 6.0 - 7.5	TRADESCANTIA UMBRELLA TREE	5.0 - 6.0 5.0 - 7.5	FRITILLARIA FUCHSIA	6.0 - 7.5 5.5 - 7.5	SUNFLOWER SWEET PEA	5.0 - 7.0 6.0 - 7.5
LEEK	6.0 - 7.5	CYCLAMEN	6.0 - 7.0	VENUS FLYTRAP	4.0 - 5.0	GAILLARDIA	6.0 - 7.5	SWEET WILLIAM	6.0 - 7.5
LENTIL	5.5 - 7.0	CYPERUS	5.0 - 7.5	WEEPING FIG	5.0 - 6.0	GAZANIA	5.5 - 7.0	TAMARIX	6.5 - 8.0
LETTUCE	6.0 - 7.0	DIEFFENBACHIA	5.0 - 6.0	YUCCA	6.0 - 7.5	GENTIANA	5.0 - 7.5	TRILLIUM	5.0 - 6.5
MARJORAM	6.0 - 8.0	DIPLADENIA	6.0 - 7.5	ZEBRINA	5.0 - 6.0	GEUM	6.0 - 7.5	TULIP	6.0 - 7.0
MARROW	6.0 - 7.5	DIZGOTHECA	6.0 - 7.5	FLOWERS, TREES		GLADIOILI	6.0 - 7.0	VIBERNUM	5.0 - 7.5
MILLET	6.0 - 6.5	DRACAENA	5.0 - 6.0	AND SHRUBS		GLOBULARIA	5.5 - 7.0	VIOLA	5.5 - 6.5
MINT	7.0 - 8.0	EASTER LILY	6.0 - 7.0	ABELIA	6.0 - 8.0	GODETIA	6.0 - 7.5	VIRGINIA CREEPER	5.0 - 7.5
MUSHROOM	6.5 - 7.5	ELEPHANT'S EAR	5.0 - 6.0	ACACIA	6.0 - 8.0	GOLDEN ROD	5.0 - 7.0	WALLFLOWER	5.5 - 7.5
MUSTARD	6.0 - 7.5	EPISCIA	6.0 - 7.0	ACANTHUS	6.0 - 7.0	GYPSOPHILIA	6.0 - 7.5	WATER LILY	5.5 - 6.5
OLIVE	5.5 - 6.5	EUONYMOUS	6.0 - 8.0	ACONITUM	5.0 - 6.0	HAWTHORN	6.0 - 7.0	WEIGELIA	6.0 - 7.5
ONION PAPRIKA	6.0 - 7.0	FERNS:	E0 EE	ADONIS	6.0 - 8.0	HEATHER	4.0 - 6.0	WISTARIA	6.0 - 8.0
PARSLEY	7.0 - 8.5 5.0 - 7.0	BIRD'S NEST BOSTON	5.0 - 5.5 5.5 - 6.5	AGERATUM AILANTHUS	6.0 - 7.5 6.0 - 7.5	HELLEBORUS	5.0 - 7.0 6.0 - 7.5	ZINNIA TURF AND ORNAMENT	5.5 - 7.5
PARSNIP	5.5 - 7.5	BUTTON	6.0 - 8.0	AJUGA	4.0 - 6.0	HOLLY	5.0 - 6.5	BAHAI	6.5 - 7.5
PEA	6.0 - 7.5	CHRISTMAS	6.0 - 7.5	ALTHEA	6.0 - 7.5	HOLLYHOCK	6.0 - 7.5	BENT	5.5 - 6.5
PEANUT	5.0 - 6.5	CLOAK	6.0 - 7.5	ALYSSUM	6.0 - 7.5	HONEYSUCKLE	6.0 - 7.5	BERMUDA	6.0 - 7.0
PECAN	4.0 - 6.0	FEATHER	5.5 - 6.5	AMARANTHUS	6.0 - 6.5	HYACINTH	6.5 - 7.5	CANADA BLUE	4.5 - 6.4
PEPPER	5.5 - 7.0	HART'S TONGUE	7.0 - 8.0	ANCHUSA	6.0 - 7.5	HYDRANGEA (Blue)	4.0 - 5.0	CLOVER	6.0 - 7.0
PEPPERMINT	6.0 - 7.5	HOLLY	4.5 - 6.0	ANDROSACE	5.0 - 6.0	HYDRANGEA (Pink)	6.0 - 7.0	KENTUCKY BLUE	6.0 - 7.5
PISTACHIO	5.0 - 6.0	MAIDENHAIR	6.0 - 8.0	ANEMONE	6.0 - 7.5	HYDRANGEA (White)	6.5 - 8.0	MEADOW	6.0 - 7.5
POTATO	4.5 - 6.0	RABBITS FOOT	6.0 - 7.5	ANTHYLLIS	5.0 - 6.0	HYPERICUM	5.5 - 7.0	PAMPAS	6.0 - 8.0
POTATO - SWEET	5.5 - 6.0	SPLEENWORT	6.0 - 7.5	ARBUTUS	4.0 - 6.0	IRIS	5.0 - 6.5	RED TOP	6.0 - 6.5
PUMPKIN	5.5 - 7.5	FIG	5.0 - 6.0	ARENARIA	6.0 - 8.0	IVY	6.0 - 7.5	RYE	6.0 - 7.0
RADISH RICE	6.0 - 7.0 5.0 - 6.5	FITTONIA FREESIA	5.5 - 6.5 6.0 - 7.5	ARISTEA ARMERIA	6.0 - 7.5 6.0 - 7.5	JUNIPER KALMIA	5.0 - 6.5 4.5 - 5.0	ST. AUGUSTINE TALL FESCUE	6.5 - 7.5 6.0 - 7.0
ROSEMARY	5.0 - 6.0	GARDENIA	5.0 - 6.0	ARNICA	5.0 - 6.5	KERRIA	6.0 - 7.0	VELVET BENT	5.0 - 6.0
	0.0		5.5 - 5.0		2.0 - 3.0	LABURNUM	6.0 - 7.0	ZOYSIA	6.0 - 7.0
						Part of the Control o	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	100 00 00 00 00 00 00 00 00 00 00 00 00	565

Soil Test Kit Questions and Answers

Question: I tested my soil, the pH test worked, but the rest of the results are clear. What's wrong?

- An error has been made in the testing process.
- 2. Nutrient levels are too low for the test to indicate.
- 3. The capsules have absorbed too much moisture prior to being used. The reaction has already occurred within the capsule itself.

Question: My pH test result came out dark blue, there is no blue on the pH color chart.

- 1. The water being used to perform the test is alkaline. Recommend distilled water for the testing process.
- 2. The soil pH is higher than 7.5. The color results change from greens to blues to purples as the pH rises.

Question: I got results on all but the Nitrogen portion of the kit.

- 1. Nitrogen leaches out of the soil very quickly, especially in sandy soil.
- 2. The form of Nitrogen the kit tests for is Nitrate, the form used by plants. Nitrate is formed through the natural Nitrogen cycle within the soil. It is possible to have Nitrogen present in the soil in a non-testable form.

Question: I tested fertilizer with the kit and still got no reaction!

The kit detects only the form of the nutrient used by the plant. These nutrients must break down to the form tested for, through the natural bacterial action and decay processes in the soil. In most cases fertilizers will not test correctly.

Question: I fertilized my soil as recommended in your instructions and then re-tested. My readings didn't change.

Because the nutrients need to break down, we recommend two to four weeks between fertilizing and retesting.

Question: My soil will not settle to the bottom in the soil/water solution I've mixed.

Although the directions read the soil and water should settle for at least 10 minutes before proceeding, there is no harm in letting the soil settle much longer. Suggest the consumer mix the soil and water the evening or even the day before testing. Some vary fine clay soil will not settle. For these few homeowners, the kit will not work.

Question: The testing capsule didn't dissolve.

The capsules must be opened and the testing powder poured into the test tube. There isn't enough water present to dissolve the capsule.

Question: The color result I got doesn't match any on the color chart.

- 1. If the result is the same "color" but a different "shade" it's a matter of a judgment decision between the different nutrient levels.
- 2. The consumer may have inadvertently used the wrong capsule for the test in question.

In most cases we offer to send the consumer additional reagent capsules for re-testing. If an error was made in the first testing process, it's generally corrected the second time through.



40 TESTS DIRECTIONS INSIDE

SOIL TEST KIT

Tests Your Soil for a Healthy Garden

pH • Nitrogen(N) • Phosphorus(P) • Potassium(K) •

WHY TEST YOUR SOIL?

Plants need food (nutrients) for healthy growth. Nitrogen, Phosphorus and Potash (N, P and K for short), play a vital role in plant growth just as vitamins, minerals, carbohydrates and protein do in our health.

HOW TO TEST YOUR SOIL

For the new and experienced soil testers alike, you will appreciate this easy, fast and fun way to achieve better growing results from your gardening efforts!

Everything is color-coded, including the tubes and capsules. All you do is take a sample of soil, mix with water, add powder from capsule, shake and watch the color develop. Then, note your test results. Fast, easy and it only takes a few minutes!

WHEN TO TEST YOUR SOIL

Soil should be tested periodically throughout the growing season, but it is especially recommended to test before planting in Spring and when preparing beds in Fall. And, if you feel your plants are not growing well, a soil test may help.

Included in the kit are:

40 test capsules, 10 each for pH, N, P and K, Four (4) Color-coded Test Tubes, Test Tube Storage Dock, complete instructions for adjusting soil pH, fertilization guidelines and pH preference list for over 450 plants for the home, yard and garden.



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APPENDIX D

Tables

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





Table 1 FIELD SCREENING RESULTS WPX Energy Permian, LLC Ross Draw Unit #011 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Nitrogen	Potash	Phosphorous	PH (ppm)	Chloride (ppm)
		Inciden	t Numbers NHMP14122	241998, nAB172855377	8, nAB1728551205		
SC01	05/02/2024	0.5	Very Low	Low	High	6.5 - 7	392
SC02	05/02/2024	0.5	Very Low	Low	High	7.00	316
BG01	05/02/2024	0.5	Very Low	Low	Medium	7.00	<128

APPENDIX E

Photographic Logs

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





PHOTOGRAPHIC LOG

WPX Energy Permian, LLC Ross Draw Unit #011

Incident Numbers: nHMP1412241998, nAB1728553778, nAB1728551205



Photograph 1 Date: 11/28/2023

Description: Northwestern view of restoration activities of the southern excavation.



Photograph 3 Date: 05/02/2024 Description: View of nutrient density results for BG01.



Photograph 2 Date: 11/28/2023
Description: Southwestern view of restoration activities of the southern excavation.



Photograph 4 Date: 05/02/2024

Description: View of nutrient density results for SC02.

APPENDIX F

Correspondence & Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Erick Herrera

From: Joseph Hernandez

Sent: Friday, January 19, 2024 2:03 PM

To: Devon-Team

Subject: FW: [EXTERNAL] FW: RDU 11 Cultural Survey

Joseph S. Hernandez

Senior Managing Geologist



Cell: (432) 305-6413

From: Arias, Arthur A <aaarias@blm.gov> Sent: Friday, January 19, 2024 11:17 AM

To: Joseph Hernandez <joseph@etechenv.com>

Cc: Raley, Jim < Jim.Raley@dvn.com>

Subject: Fw: [EXTERNAL] FW: RDU 11 Cultural Survey

You don't often get email from aaarias@blm.gov. Learn why this is important

Here is a response from the local Archaeologist, after reviewing the information don't think any additional survey will be needed.

Thanks..

From: Whaley, Aaron W <awhaley@blm.gov>
Sent: Thursday, January 18, 2024 7:40 AM
To: Arias, Arthur A <aaarias@blm.gov>

Subject: Re: [EXTERNAL] FW: RDU 11 Cultural Survey

I am all good on the sampling and the work that has been done. As long as they are not needed to do any physical disturbing work within the arch avoidance areas, I am all set for cultural.

Best,

Aaron

Aaron Whaley

Supervisory Archaeologist

Carlsbad Field Office

Bureau of Land Management

575 725 1623 (c)

575-234-5986 (o)

From: Arias, Arthur A <<u>aaarias@blm.gov</u>>
Sent: Wednesday, January 17, 2024 1:58 PM
To: Whaley, Aaron W <<u>awhaley@blm.gov</u>>

Subject: Fw: [EXTERNAL] FW: RDU 11 Cultural Survey

Do you have any other concerns for this spill to address..

From: Joseph Hernandez < joseph@etechenv.com >

Sent: Tuesday, January 16, 2024 10:23 AM **To:** Arias, Arthur A <<u>aaarias@blm.gov</u>>

Cc: <u>jim.raley@dvn.com</u> <<u>jim.raley@dvn.com</u>>
Subject: [EXTERNAL] FW: RDU 11 Cultural Survey

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Art,

Hope all is well - Just to bring you up to speed here for incident # nHMP1412241998:

- We were working with Devon Energy/WPX to complete an NMOCD approved work plan that proposed remediation/sampling plan for a few reportable incidents.
- Our work plan proposed sampling within a path of investigation for incident number nHMP1412241998. A cultural study was conducted by SWCA which was positive (buffer area shown in attachment).
- Delineation soil samples were advanced within the eastern area of the path of investigation and lab data suggested no impacts above reclamation standards (map and figure shown in attachment).
- There was an excavation performed (NE) for other incidents nAB1728551205 & nAB1728553778 that
 overlapped nHMP1412241998. All final confirmation samples associated with that excavation meet NMOCD
 closure criteria and/or reclamation standards. Site is designated with most lenient NMOCD standards based on
 the site characterization.

We were requesting guidance from the BLM if any further sampling is necessary and if this data is sufficient to close this incident with the BLM/NMOCD to minimize disturbance near the cultural buffer areas by sampling based on lab data for delineation samples collected nearest the source.

Let me know if you have any questions or need anything from us.

Thanks,

Joseph S. Hernandez

Senior Managing Geologist



Cell: (432) 305-6413

From: Courtney Blair < CBlair@swca.com>
Sent: Monday, January 15, 2024 12:26 PM
To: Joseph Hernandez < joseph@etechenv.com>
Cc: Devon-Team < Devon-Team@etechenv.com>

Subject: Re: RDU 11 Cultural Survey

Aaron mentioned that there was no need for any additional sampling on the cultural side but did mention that the conversations about the soil samples results and cleanup will need to take place directly with the BLM EPS folks. Ultimately, if as long as Art signs off then the cultural side shouldn't need anything else, sample wise.

The contact to reach out to would be Art Arias (<u>aaarias@BLM.gov</u>). He's the individual that looked into the RDU 54 samples. I'm not entirely sure what he will require but I would suggest providing him with the incident number so he can verify it was reported and sending along your soil samples for the project.

Let me know if there's anything else I can find out for you before you reach out.

Courtney Blair

Associate Project Archaeologist

SWCA Environmental Consultants

Cell: (617) 435-2083

cblair@swca.com



From: Joseph Hernandez < <u>joseph@etechenv.com</u>>

Sent: Monday, January 15, 2024 1:10 PM **To:** Courtney Blair < <u>CBlair@swca.com</u>>

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: RDU 11 Cultural Survey

Can you clarify what they are good on for the cultural side? Like for us to not continue sampling and that the data we provided is sufficient for closure?

Who do we contact at the BLM EPS and what do we need to provide them?

Joseph S. Hernandez

Senior Managing Geologist



Cell: (432) 305-6413

From: Courtney Blair < CBlair@swca.com>
Sent: Monday, January 15, 2024 11:10 AM
To: Joseph Hernandez < joseph@etechenv.com>
Cc: Devon-Team < Devon-Team@etechenv.com>

Subject: Re: RDU 11 Cultural Survey

Hi Joseph,

I wrote back last week that cultural at the BLM had no issues going forward and I also sent a redacted version of the report on the 9th. Is ther anything else you have questions about?

Courtney Blair

Associate Project Archaeologist

SWCA Environmental Consultants

Cell: (617) 435-2083

cblair@swca.com



From: Joseph Hernandez < joseph@etechenv.com >

Sent: Monday, January 15, 2024 12:07 PM **To:** Courtney Blair < CBlair@swca.com >

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: RDU 11 Cultural Survey

Courtney,

Have you heard anything back from the BLM on this RDU 11?

Joseph S. Hernandez

Senior Managing Geologist



Cell: (432) 305-6413

From: Joseph Hernandez

Sent: Monday, January 8, 2024 2:54 PM **To:** Courtney Blair < CBlair@swca.com>

Cc: Devon-Team < <u>Devon-Team@etechenv.com</u>>

Subject: RE: RDU 11 Cultural Survey

Yes, here you go.

We've included a map, table, and lab report. The only exceedances were part of the excavation to the northeast, but the sidewalls and floors of that excavation now meet reclamation requirements. Since concentrations at BH01 through BH03 were under reclamation standards, we did not investigate west of the buffers to minimize any additional soil disturbance near the buffers.

Thanks

Joseph S. Hernandez

Senior Managing Geologist



Cell: (432) 305-6413

From: Courtney Blair < CBlair@swca.com>
Sent: Monday, January 8, 2024 11:30 AM

To: Joseph Hernandez < joseph@etechenv.com>; Anna Byers < anna@etechenv.com>

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: Re: RDU 11 Cultural Survey

Hi Joseph,

Do you have a copy of the lab results that I can send to the Arch department at the BLM so they can see that the results are clean?

Courtney Blair

Associate Project Archaeologist

SWCA Environmental Consultants

Cell: (617) 435-2083

cblair@swca.com



From: Joseph Hernandez < joseph@etechenv.com>

Sent: Monday, January 8, 2024 10:44 AM

To: Courtney Blair < CBlair@swca.com>; Anna Byers < anna@etechenv.com>

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: RDU 11 Cultural Survey

Hey Courtney,

Wanted to follow up on this when you get a chance.

Joseph S. Hernandez

Senior Managing Geologist



Cell: (432) 305-6413

From: Joseph Hernandez

Sent: Thursday, January 4, 2024 11:27 AM

To: Courtney Blair < CBlair@swca.com >; Anna Byers < anna@etechenv.com >

Cc: Devon-Team < Devon-Team@etechenv.com >

Subject: RE: RDU 11 Cultural Survey

Courtney,

We just wanted to let you know, we sampled within the path of investigation while staying away from the sensitive areas. The data is clean, but we were just wanting some guidance from the BLM if any further sampling is necessary and if this data is sufficient to close this incident. We don't want to further to disturb the area with any sampling.

We are trying to see if we can develop the same approach as we did the RDU 54 where BLM agreed to leave impacts in place but in this situation no impacts were found.

Let me know if you have any questions or need anything from us.

Joseph S. Hernandez

Senior Managing Geologist



Work: (432) 305-6413

Cell: (281) 702-2329

Erick Herrera

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Monday, October 2, 2023 2:48 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/5 - 10/6)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist

Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113

505.469.1830 | scott.rodgers@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd



From: Erick Herrera <erick@etechenv.com> Sent: Monday, October 2, 2023 12:40 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/5 - 10/6)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between October 5th through October 6th, 2023:

Proposed Date: October 5, 2023, October 6, 2023.

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, October 11, 2023 5:15 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

Hi Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com> Sent: Wednesday, October 11, 2023 3:33 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim < jim.raley@dvn.com>; Devon-Team < Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 16th through October 20th, 2023:

Proposed Date: October 16, 20023 Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 34

Incident Number: nAPP2326833391

API: 30-015-41578

Proposed Date: October 17, 20023 Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX Federal 21 #031 Incident Number: nAPP2326847671 API: 30-015-41266

Proposed Date: October 17, 20023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 - 1700 hrs.

Site Name: RDX 16 #009

Incident Numbers: nAPP2322658221 & nAPP2317840368

API: 30-015-39752

Proposed Date: October 16, 2023, October 17, 2023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, October 18, 2023 5:25 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/23-10/27)

Hi Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com> Sent: Wednesday, October 18, 2023 3:34 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim < jim.raley@dvn.com>; Devon-Team < Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/23-10/27)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 23rd through October 27th, 2023:

Proposed Date: October 23, 2023, October 24, 2023, October 25, 2023, October 26, 2023, October 27, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Proposed Date: October 23, 2023, October 24, 2023, October 25, 2023, October 26, 2023, October 27, 2023

Proposed Timeframe: 0800 – 1700 hrs. Site Name: Sheep Draw Federal Battery #2 Incident Numbers: NGEG0720040869 API: 30-015-27015

Thank you,

Erick Herrera Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Wednesday, October 25, 2023 2:52 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Hall, Brittany,

EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/30-11/3)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, October 25, 2023 1:18 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/30-11/3)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon.

WPX anticipates conducting confirmation soil sampling activities at the following site between October 30th through November 3th, 2023:

Proposed Date: October 30, 2023, October 31, 2023, November 1, 2023, November 2, 2023, November 3, 2023

Proposed Timeframe: 0800 - 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thanks,

Erick Herrera

Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Wednesday, June 7, 2023 10:36 AM

To: Raley, Jim

Cc:Devon-Team; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRDSubject:(Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Importance: High

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

RE: Incident # NAPP2200728755, NAB1632647780, NAB1712951426, NAB1728551205, NAB1728553778, NHMP1412241998

Jim,

Your request for an extension to **October 20th, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave.| Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim <Jim.Raley@dvn.com> Sent: Wednesday, June 7, 2023 7:08 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com> **Subject:** [EXTERNAL] RE: RDU 11 Extension

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

BLM required quite an extensive cultural survey on the RDU 11 excavation project. We contracted SWCA to complete this task, they have finished and expect to provide a cultural survey report to BLM by 6/30/2023. BLM will need time to review this report and determine if any additional action is needed or if they will allow excavation with monitoring etc.

So we are not able to move forward with completion of this project until we receive clearance from BLM which I expect will be mid-July. Due to this circumstance, WPX Energy respectfully requests an additional 90 day extension from todays date or timeframe NMOCD deems reasonable.

Erick Herrera

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Tuesday, October 24, 2023 10:24 AM

To: Raley, Jim

Cc: Devon-Team; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD; Wells, Shelly, EMNRD

Subject: (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

No problem, thank you for the update.

Your request for an extension to **January 18th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim <Jim.Raley@dvn.com> Sent: Friday, October 20, 2023 8:42 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com >; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov >;

Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov>

Subject: RE: [EXTERNAL] (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Robert,

To summarize the below extension request. Basically we could not start excavation till BLM gave the OK on a cultural site they were considering possibly significant. When they finally did give the OK to proceed, we started immediately on the excavation, but we just don't have time to finish excavation and reporting by the current deadline of October, 20th. We are in the middle of the excavation and plan on delivering closure as soon as completed. Delay on this project was out of our control.

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the Ross Draw Unit #011 (Site) associated with the following Incident Numbers: NHMP1412241998, nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755.

An extensive cultural survey was required by the Bureau of Land Management (BLM) for the proposed work areas in pasture soil prior to conducting remediation activities to address the Incident Numbers listed above according to a Remediation Work Plan approved on October 19, 2022. SWCA was contracted to conduct the cultural survey, which began on May 2, 2023, the earliest a field crew was available. The cultural survey was completed over the course of approximately 2.5 weeks, and a subsequent report was submitted to the BLM for review on July 28, 2023. On August 14,

2023, SWCA received report edits from the BLM, which were addressed in accordance with subsequent correspondence with the BLM. The revised report was re-submitted to the BLM for review on September 1, 2023, which was determined to require minor edits prior to approval. SWCA submitted the finalized report on September 8, 2023, and on September 21, 2023, the BLM approved the sundry with monitoring stipulations and remediation activities began on October 2, 2023. Excavation activities are still currently on-going and approximately 50% of the proposed excavation area remains.

To provide enough time to complete remediation activities, soil sampling analyses, and prepare a subsequent report, WPX requests a 90-day extension of the deadline for the multiple Incident Numbers at the Site to **January 18, 2023.**

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Sent: Wednesday, June 7, 2023 9:36 AM **To:** Raley, Jim < <u>Jim.Raley@dvn.com</u>>

Cc: Devon-Team < Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>;

Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov >

Subject: [EXTERNAL] (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Importance: High

RE: Incident # NAPP2200728755, NAB1632647780, NAB1712951426, NAB1728551205, NAB1728553778, NHMP1412241998

Jim,

Your request for an extension to **October 20th, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim < <u>Jim.Raley@dvn.com</u>>
Sent: Wednesday, June 7, 2023 7:08 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Cc: Devon-Team < <u>Devon-Team@etechenv.com</u>>
Subject: [EXTERNAL] RE: RDU 11 Extension

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

BLM required quite an extensive cultural survey on the RDU 11 excavation project. We contracted SWCA to complete this task, they have finished and expect to provide a cultural survey report to BLM by 6/30/2023. BLM will need time to review this report and determine if any additional action is needed or if they will allow excavation with monitoring etc.

So we are not able to move forward with completion of this project until we receive clearance from BLM which I expect will be mid-July. Due to this circumstance, WPX Energy respectfully requests an additional 90 day extension from todays date or timeframe NMOCD deems reasonable.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Raley, Jim

Sent: Tuesday, May 2, 2023 8:29 AM

To: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Subject: RDU 11 Extension

Robert,

We had a tentative due date of (4/21/2023) to complete excavation at the RDU 11 for several incidents. BLM has requested a fairly extensive cultural survey before we can begin excavation. We are currently waiting on the archeological vendor (SWCA) to complete the survey and have BLM review. Due to this delay we would like to request an extension to the due to date to 7/20/2023.

(nAPP2200728755, nAB1632647780, nAB1712951426, nAB1728551205, nAB1728553778, nHMP1412241998)



Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



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APPENDIX G

Archived Reports

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





CLOSURE REQUEST REPORT

Ross Draw Unit #011

Eddy County, New Mexico

Incident Numbers:

nAB1712951426 nAB1728553778 nAB1728551205 nAPP2200728755

Prepared For:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Carlsbad • Midland • San Antonio • Lubbock • Hobbs • Lafayette

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of WPX Energy Permian, LLC (WPX), presents the following Closure Request Report (CRR) detailing corrective actions and subsequent soil sampling events as proposed in an approved Remediation Work Plan (RWP), performed for four inadvertent releases of crude oil and/or produced water at the Ross Draw Unit #011 (Site). Based on the completed remedial actions and laboratory analytical results from recent soil sampling events, WPX is requesting No Further Action (NFA) at the Site.

SITE LOCATION AND RELEASE BACKGROUNDS

The Site is located in Unit O, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (32.022210°, -103.867013°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) (**Figure 1** in **Appendix A**).

nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755

As originally documented in the RWP, four inadvertent reportable spill incidents occurred between April 20, 2017, and January 4, 2022, and released approximately 94 barrels (bbls) of produced water and/or crude oil at the Site, of which approximately 40 bbls of fluids were successfully recovered. WPX reported the releases to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141s (Form C-141) between April 21, 2017, and January 10, 2022.

The RWP proposed corrective actions to address identified residual soil impacts exceeding the applicable Site Closure Criteria. The RWP was received by the NMOCD on April 4, 2022, and approved with the following conditions:

- "Horizontal delineation of the releases will be defined through delineation samples or 5-point composite sidewall samples following the removal of residual impacts. Base and sidewalls confirmation samples must be collected and analyzed for parameters listed in Table I of 19.15.29.12 NMAC."
- The OCD approves a confirmation sample size variance of up to but no more than 400 square feet per sample."

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the approved RWP, the Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to ground water and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

All potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**. Referenced well records are provided as **Appendix B**.

Based on the results from the desktop review detailed in the approved RWP, the following Closure Criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]		
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligram per kilogram (mg/kg)		
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg		
TPH-Gasoline Range Organics (GRO) + TPH-Diesel Range Organics (DRO)	EPA 8021B	1,000 mg/kg		
Benzene	EPA 8021B	10 mg/kg		
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B	50 mg/kg		

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

EXCAVATION SOIL SAMPLING ACTIVITIES

nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755

Between October 6, 2023, and October 30, 2023, excavation activities were performed via mechanical equipment to address residual impacts, which resulted in two separate excavations. Excavation activities were directed by referencing delineation laboratory analytical results documented in the RWP and field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips.

Following the removal of impacted soil, Etech collected 5-point composite confirmation soil samples from the floors (FS01 through FS44) and sidewalls (SW01 through SW21) of the excavations at the approved sampling frequency of 400 square feet. The 5-point composite soil samples were comprised of five equivalent aliquots homogenized in a 1-gallon, resealable plastic bag. The samples were then placed into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. in Farmington, New Mexico, for analysis of the COCs.

Approximately 4,380 cubic yards of impacted soil removed from the Site was transported to R360 Antelope Draw in Jal, New Mexico under WPX approved manifests. Upon receipt of final confirmation excavation soil samples results, the excavations were backfilled with clean, locally sourced soil and the Site was restored to "as close to its original state" as possible. The locations of confirmation excavation soil samples are shown in **Figure 2A** and **Figure 2B** in **Appendix A**. Photographic documentation of excavation and restoration activities is included in **Appendix C**.

EXCAVATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for all final confirmation excavation soil samples indicated all analyzed COCs were below the applicable Site Closure Criteria and/or reclamation standard. As such, the confirmation excavation sidewall soil samples sufficiently defined the horizontal periphery of impacts. Laboratory analytical results are summarized in **Table 1** included in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

CLOSURE REQUEST

Based on laboratory analytical results for final confirmation excavation soil samples, WPX believes that residual soil impacts associated with the four inadvertent releases have been excavated and removed from the Site. The remediation areas have been re-seeded with BLM Seed Mix #2 and hand-broadcasted to match vegetative conditions surrounding the Site. WPX also believes the completed remedial actions meet the requirements set forth in NMAC 19.15.29.13 regulations in order to be protective of human health, the environment and groundwater. As a result, NFA appears warranted at this time, and WPX requests Closure of this CRR associated with Incident Numbers nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755, respectively.

If you have any questions or comments, please do not hesitate to contact Joseph Hernandez at (432) 305-6413 or joseph@etechenv.com or Erick Herrera (432) 305-6416 or erick@etechenv.com. **Appendix G** provides correspondence email notification receipts associated with the subject release.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erick Herrera Staff Geologist Joseph S. Hernandez Senior Managing Geologist

cc: Jim Raley, WPX

New Mexico Oil Conservation Division

Bureau of Land Management

Appendices:

Appendix A: Figure 1: Site Map

Figure 1A: Site Characterization Map - Groundwater

Figure 1B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

Figure 2A: Excavation Soil Sample Locations

Figure 2B: Excavation Soil Sample Locations

Appendix B: Referenced Well Records

Appendix C: Photographic Logs

Appendix D: Tables

Appendix E: Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix F: NMOCD Notifications

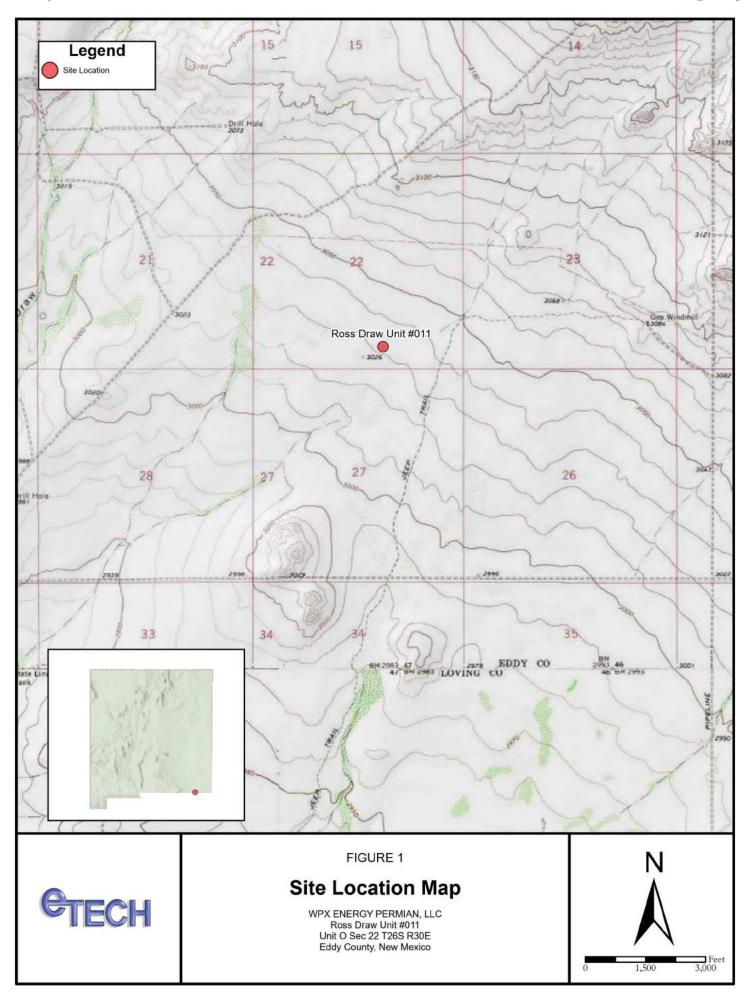
Appendix G: Approved Remediation Work Plan

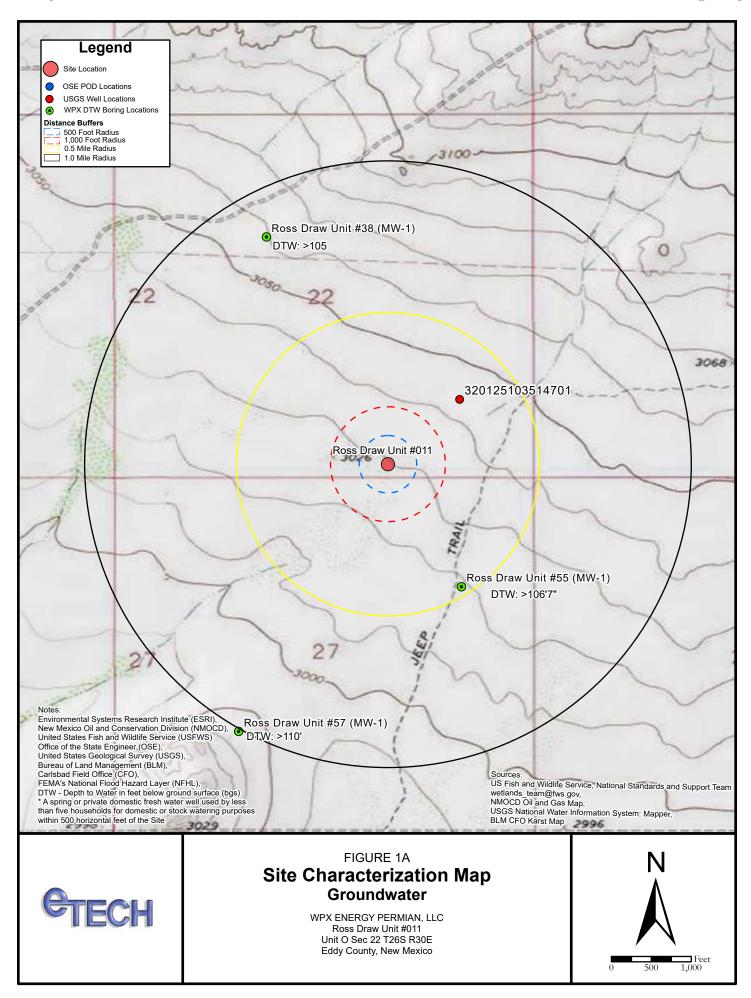
APPENDIX A

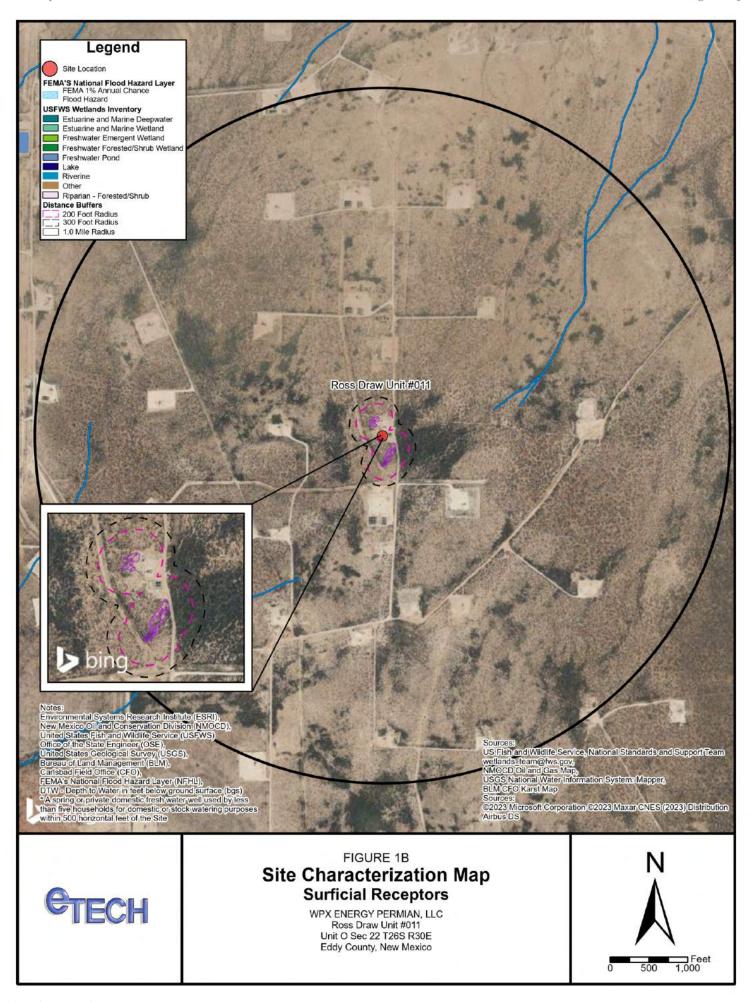
Figures

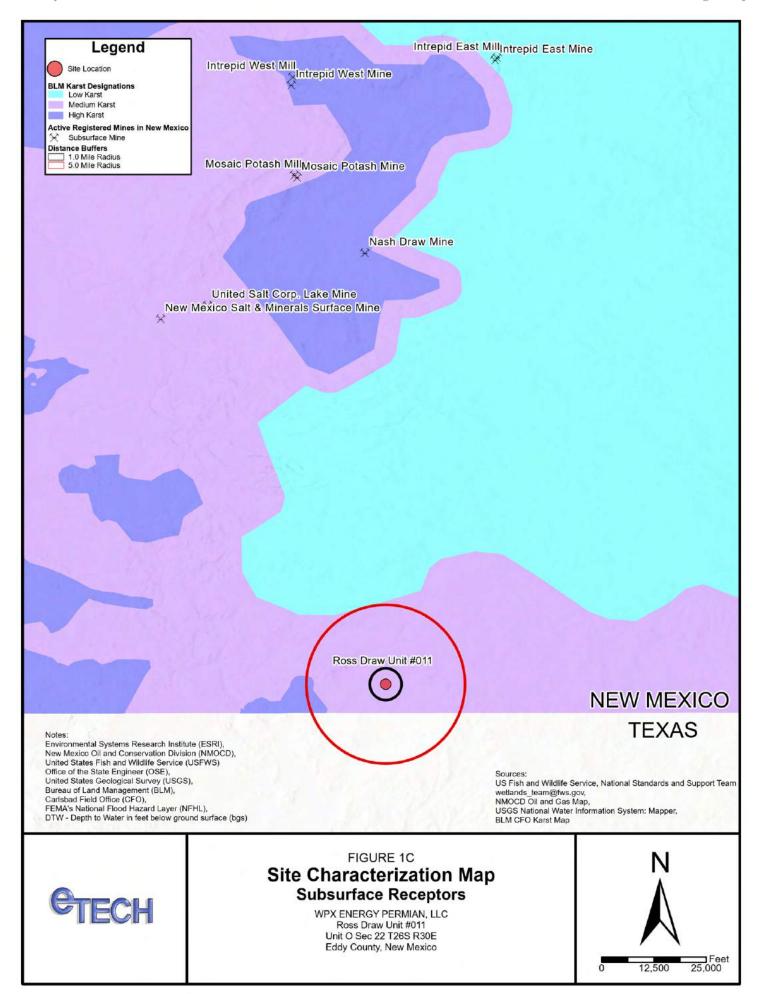
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213

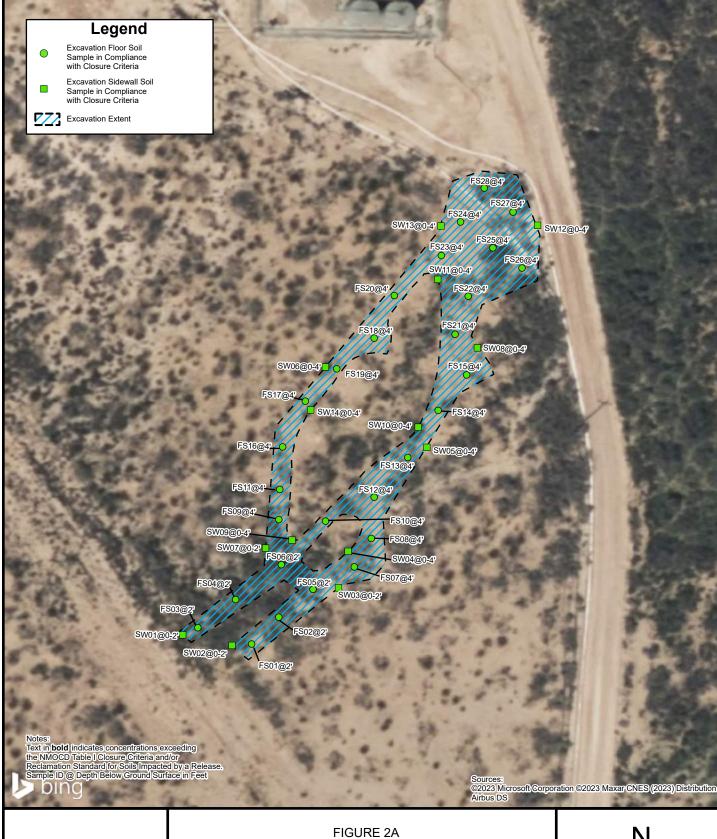








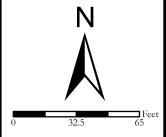






Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC Ross Draw Unit #011 Unit O Sec 22 T26S R30E Eddy County, New Mexico



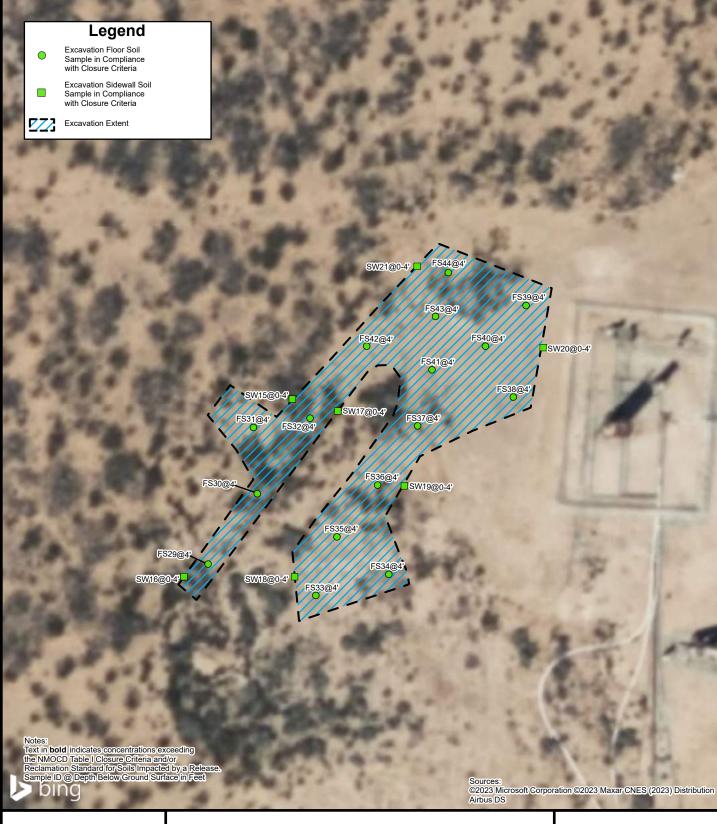
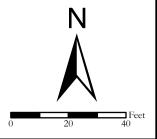




FIGURE 2B

Excavation Soil Sample Locations

WPX ENERGY PERMIAN, LLC Ross Draw Unit #011 Unit O Sec 22 T26S R30E Eddy County, New Mexico



APPENDIX B

Referenced Well Records

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



		HR							MONITORING W	ELL COMPLETION	N DIAGRAM
/		c n	MPI	ΙΔΝ	C F		Boring/Wel		W-1	Location: Ross Draw U	nit #55
	***	SO	וֹ ווֹ וֹ	101	NS		Date:			Client:	
Drilling Me	athod:								0/2020	WPX Ene	ergy
	Air Rotar	y	Samping 1		one		Logged By:		nn, PG	Talon L	PE
Gravel Pack			Gravel Pac	k Depth Into			Seal Type:	r	Seal Depth Interval:	Latitude:	
Casing Typ	0/20 Sar	Diameter:		3 B Depth Inter	ags val:			one al Depth (ft. BC	None	32.0161 Longitude:	65
PVC		2-inch		0-101'7				106	5'7"	-103.863	46
Screen Typ	e:	Slot:		Diameter:	-	Interval:	Well Total	Depth (ft. BGS			DTW Date:
PVC		0.010-ir	nch	2-inch	101'7"				5'7" I	>106' 7"	12/16/2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	NSCS	Sample ID	Litholog	Lithology/Remarks Con	
0 5 10 15	NM	L	D	N	N	NM	SP	NS	_	olored poorly graded n minor silt	-
20 25 30	NM	L	D	N	N	NM	SW	NS	Pale tan orange well graded fine sand with minor medium and coarse sand		
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS	_	Pale orange brown poorly graded fine sand with minor gravel	
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS	Grey poorly graded fine sand with minor gravel		
90 95	NM	L	D	N	N	NM	SP	NS	Darker grey poorly graded fine sand with minor silt and minor medium sand		
100 106'7"	NM	M	D	N	N	NM	SC	NS	Dark grey fine sand with moderate silt and clay - TD 106'7"		

APPENDIX C

Photographic Logs

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





PHOTOGRAPHIC LOG

WPX Energy Permian, LLC
Ross Draw Unit #011
Incident Numbers: nAB1712951426, nAB1728553778, nAB1728551205, and
nAPP2200728755



Problem 1977 PAINTY - 1034-AVEN (FEB AIR AIX do 1074) pal (VAR) (BESTING VAR) (BESTING

Photograph 1 Date: 10/26/2023

Description: Southeastern view of excavation activities from the southern excavation.

Photograph 2 Date: 10/26/2023

Description: Southwestern view of excavation activities from the southern excavation.



Position +032 021536 (-109 866876 (=15.7f))
Altitude (0.03H to 1.08t)
Datum (V.05-94)
Azimutin Bearing, 028 (V.055 6648m to True (+12.1)
Elevation Angle +0.07
Jacob (0.03)
BDUT

Photograph 3 Date: 10/26/2023

Description: Northeastern view of excavation activities from the southern excavation.

Photograph 4 Date: 10/26/2023

Description: Northeastern view of excavation activities from the southern excavation.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC
Ross Draw Unit #011
Incident Numbers: nAB1712951426, nAB1728553778, nAB1728551205, and
nAPP2200728755



Photograph 1 Date: 10/30/2023 Description: Northwestern view of excavation activities from the northern excavation.



Photograph 3 Date: 10/30/2023 Description: Southwestern view of excavation activities from the northern excavation.



Photograph 2 Date: 10/30/2023

Description: Northwestern view of excavation activities from the northern excavation.



Photograph 4 Date: 10/30/2023

Description: Southwestern view of excavation activities from the northern excavation.



PHOTOGRAPHIC LOG

WPX Energy Permian, LLC
Ross Draw Unit #011
Incident Numbers: nAB1712951426, nAB1728553778, nAB1728551205, and
nAPP2200728755



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Photograph 5 Date: 11/28/2023

Description: Northwestern view of restoration activities of the southern excavation.

Photograph 6 Date: 11/28/2023

Description: Southwestern view of restoration activities of the southern excavation.



Bets & Films This Prive St. 2020 of 11 1925 Med The Prive St. 2020 of 15 cm will also a point to 11 miles of 12 miles to 12 miles than well at the 12 miles of 12

Photograph 7 Date: 11/28/2023

Description: Southeast view of restoration activities of the northern excavation.

Photograph 8 Date: 11/28/2023

Description: Southwest view of restoration activities of the northern excavation.

APPENDIX D

Tables

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Ross Draw Unit #011 Eddy County, New Mexico

Sample I.D.	Sample	Sample Depth	Benzene	Total BTEX	TPH GRO	TPH DRO	TPH ORO	DRO+GRO	Total TPH	Chloride	
Sample I.D.	Date	(feet bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
NMOCD Table I Closur Release (NMAC 19.15.		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000	
	Excavation Soil Samples - Incident Numbers nAB1712951426, nAB1728553778, nAB1728551205, and naPP2200728755										
FS01	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0	
FS02	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0	
FS03	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0	
FS04	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24.1	
FS05	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.9	
FS06	10/06/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.9	
FS07	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260	
FS08	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,180	
FS09	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,290	
FS10	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,350	
FS11	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,240	
FS12	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,270	
FS13	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,490	
FS14	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,370	
FS15	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,410	
FS16	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,240	
FS17	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	935	
FS18	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	383	
FS19	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	429	
FS20	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,220	
FS21	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	466	
FS22	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	422	
FS23	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	984	
FS24	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	957	
FS25	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,230	
FS26	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,990	
FS27	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,210	
FS28	10/16/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,220	
FS29	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.6	
FS30	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	37.9	
FS31	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	262	



Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Ross Draw Unit #011 Eddy County, New Mexico

				ı			1	1		
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Release (NMAC 19.15.2		s Impacted by a	10	50	NE	NE	NE	1,000	2,500	20,000
FS32	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	506
FS33	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	503
FS34	10/27/2023	4	<0.0250	<0.0500	<20.0	58.3	<50.0	58.3	58.3	472
FS35	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,430
FS36	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,220
FS37	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,130
FS38	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	281
FS39	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,340
FS40	10/27/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,070
FS41	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,260
FS42	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,660
FS43	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,610
FS44	10/30/2023	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,630
SW01	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW02	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW03	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW04	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.1
SW05	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23.6
SW06	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.5
SW07	10/06/2023	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	22.7
SW08	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	28.3
SW09	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.0
SW10	10/06/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	29.7
SW11	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW12	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	86.2
SW13	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	104
SW14	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	90.3
SW15	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	39.3
SW16	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW17	10/16/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	52.0
SW18	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	27.1



Table 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC Ross Draw Unit #011 **Eddy County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	20,000	
SW19	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	26.8
SW20	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	162
SW21	10/30/2023	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<400

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes GRO: Gasoline Range Organics

DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division NMAC: New Mexico Administrative Code

Text in "grey" represents excavated soil samples

Concentrations in bold exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard | for Soils Impacted by a Release

† The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas, to be immediately reclaimed

following remediation pursuant to NMAC 19.15.17.13.

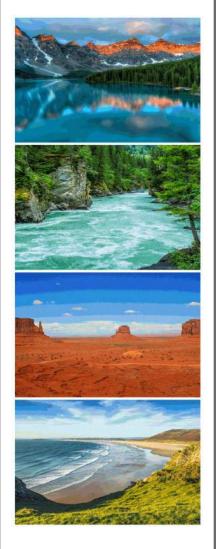
APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310074

Job Number: 01058-0007

Received: 10/12/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/17/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/17/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310074

Date Received: 10/12/2023 8:25:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/12/2023 8:25:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/23 09:46

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 2'	E310074-01A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS02 2'	E310074-02A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS03 2'	E310074-03A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS04 2'	E310074-04A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS05 2'	E310074-05A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
FS06 2'	E310074-06A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS01 2' E310074-01

		E3100/4-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		108 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2341077
Chloride	ND	20.0	1	10/12/23	10/13/23	



Chloride

Sample Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS02 2'

E310074-02 Reporting Analyte Result Limit Dilution Analyzed Notes Prepared Analyst: RKS Batch: 2341068 mg/kg mg/kg Volatile Organics by EPA 8021B 10/12/23 10/12/23 ND 0.0250 Benzene 1 10/12/23 10/12/23 Ethylbenzene ND 0.0250ND 0.02501 10/12/23 10/12/23 Toluene 1 10/12/23 10/12/23 ND o-Xylene 0.02501 10/12/23 10/12/23 ND 0.0500 p,m-Xylene 10/12/23 10/12/23 1 Total Xylenes ND 0.025010/12/23 10/12/23 94.3 % 70-130 Surrogate: 4-Bromochlorobenzene-PID Analyst: RKS mg/kg Batch: 2341068 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 10/12/23 10/12/23 ND 20.0 1 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 93.1 % 10/12/23 10/12/23 70-130 mg/kg mg/kg Analyst: KM Batch: 2341072 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 10/12/23 10/12/23 Diesel Range Organics (C10-C28) ND 10/12/23 10/12/23 Oil Range Organics (C28-C36) 50.0 1 10/12/23 10/12/23 Surrogate: n-Nonane 99.8 % 50-200 Analyst: IY Batch: 2341077 Anions by EPA 300.0/9056A mg/kg mg/kg

20.0

1

10/12/23

10/12/23

ND



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS03 2'

E310074-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		103 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: IY		Batch: 2341077
			<u> </u>	10/12/23	10/12/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS04 2'

E310074-04

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.2 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		102 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2341077
Chloride	24.1	20.0	1	10/12/23	10/12/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS05 2'

E310074-05

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	llyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		96.6 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2341077
	23.9	20.0		10/12/23	10/12/23	



Chloride

Sample Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

FS06 2'

E310074-06						
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: KM		Batch: 2341072
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/12/23	
Surrogate: n-Nonane		100 %	50-200	10/12/23	10/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	analyst: IY		Batch: 2341077

20.0

23.9

10/12/23

1

10/12/23



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/17/2023 9:46:36AM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2341068-BLK1) Prepared: 10/12/23 Analyzed: 10/12/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.61 8.00 95.1 70-130 LCS (2341068-BS1) Prepared: 10/12/23 Analyzed: 10/12/23 4.67 93.4 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.61 0.0250 5.00 92.2 70-130 4.66 0.0250 5.00 93.2 70-130 Toluene 93.0 o-Xylene 4.65 0.0250 5.00 70-130 9.43 10.0 94.3 70-130 0.0500 p.m-Xvlene 93.9 70-130 14.1 15.0 Total Xylenes 0.0250 8.00 94.7 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.58 Matrix Spike (2341068-MS1) Source: E310074-02 Prepared: 10/12/23 Analyzed: 10/12/23 4.42 0.0250 5.00 ND 54-133 Benzene ND 87.4 61-133 Ethylbenzene 4.37 0.0250 5.00 Toluene 4.43 0.0250 5.00 ND 88.6 61-130 4.41 ND 88.3 63-131 5.00 0.0250 o-Xylene p,m-Xylene 8.94 0.0500 10.0 ND 89.4 63-131 13.4 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.57 8.00 Matrix Spike Dup (2341068-MSD1) Source: E310074-02 Prepared: 10/12/23 Analyzed: 10/12/23 4.46 0.0250 5.00 ND 89.1 54-133 0.784 20 61-133 0.970 4.41 0.0250 5.00 ND 88.3 20 Ethylbenzene Toluene 4 46 0.0250 5.00 ND 89.2 61-130 0.636 20 4.46 5.00 ND 89.2 63-131 1.09 20 o-Xylene 0.0250 0.933

10.0

15.0

8.00

0.0500

0.0250

ND

ND

90.3

89.9

95.6

63-131

63-131

70-130

0.983

20

20



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.03

13.5

7.64

WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	ROSS DRAW UNIT #011 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	,			10/	17/2023 9:46:36AM
	Non	halogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
	mg/kg	mg kg	mg/kg	mg/kg	70	/0	/0	70	Notes
Blank (2341068-BLK1)							Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			
LCS (2341068-BS2)							Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			
Matrix Spike (2341068-MS2)				Source:	E310074-	02	Prepared: 1	0/12/23 Anal	yzed: 10/12/23
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
Matrix Spike Dup (2341068-MSD2)	trix Spike Dup (2341068-MSD2) Source: E310074-02 Prepared		Prepared: 1	0/12/23 Anal	yzed: 10/12/23				
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130	1.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



• • • • • • • • • • • • • • • • • • • •	nergy - Carlsbad	Project Name:	ROSS DRAW UNIT #011 01058-0007	Reported:	
Trojett Hamageri Grotte World		Project Number: Project Manager:	Gilbert Moreno	10/17/2023 9:46:36AM	-

Carisbad NM, 88220		Project Manage	r: Gi	ibert Moreno					10/1//2023 9:40:30A
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341072-BLK1)							Prepared: 1	0/12/23 A	Analyzed: 10/12/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	51.7		50.0		103	50-200			
LCS (2341072-BS1)							Prepared: 1	0/12/23 A	Analyzed: 10/12/23
Diesel Range Organics (C10-C28)	248	25.0	250		99.2	38-132			
urrogate: n-Nonane	49.2		50.0		98.3	50-200			
Matrix Spike (2341072-MS1)				Source:	E310074-	06	Prepared: 1	0/12/23 A	Analyzed: 10/12/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	38-132			
urrogate: n-Nonane	50.8		50.0		102	50-200			
Matrix Spike Dup (2341072-MSD1)				Source:	E310074-	06	Prepared: 1	0/12/23 A	Analyzed: 10/12/23
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132	0.193	20	
urrogate: n-Nonane	51.2		50.0		102	50-200			



WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number: Project Manager:	0	ROSS DRAW U 1058-0007 Gilbert Moreno	NIT #011				Reported: 10/17/2023 9:46:36A	ιM
		Anions	by EPA	300.0/9056A	<u>.</u>				Analyst: IY	
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limi %		
Blank (2341077-BLK1)							Prepared:	10/12/23	Analyzed: 10/12/23	
Chloride	ND	20.0								
LCS (2341077-BS1)							Prepared:	10/12/23	Analyzed: 10/12/23	
Chloride	255	20.0	250		102	90-110				
Matrix Spike (2341077-MS1)				Source: 1	E 310074- 0	1	Prepared:	10/12/23	Analyzed: 10/12/23	
Chloride	262	20.0	250	ND	105	80-120				
Matrix Spike Dup (2341077-MSD1)				Source: 1	E310074-0	1	Prepared:	10/12/23	Analyzed: 10/13/23	
Chloride	258	20.0	250	ND	103	80-120	1.37	20		

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/17/23 09:46

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

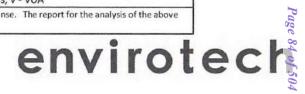
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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	PX Energ				Bill To				La	ib Us	se On	ly				TA	T	EPA P	rogram
	Brushy Ga				Attention: Jim Raley			WO#			Job I			1D	2D	3D	Standard	CWA	SDWA
	/lanager: (Address: 5315 Buena Vista Dr.		E3	310	27,0	1	OIC	59	- 8007				5 day TAT		
	13000 W				City, State, Zip: Carlsbad, NM, 88.	220							d Metho		os arrano		- Paralles		RCRA
City, Stat	e, Zip_Oc	lessa,TX,	79765		Phone: 575-885-7502														
	32-541-77				Email: jim.raley@dvn.com			3015										State	-
Email: D	evon-tean	n@etech	env.com		WO: 21153712		1	by 8							1	1 1	NM CO	UT AZ	TX
Collecte	ollected by: Edyte Konan				Incident ID: NHMP1412241998, nAB1712951426, nAB1728553778	55	3	TPH GRO/DRO/ORO by 8015	8021	8260	9010	300.0		MM		¥	×		
Time Sampled	Matrix Sample ID					Lab Number	Depth(ft.)	TPH GR	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	1
9:00	10.6.23	S	1		FS01		2'							х					
9:10	10.6.23	S	1		FS02	2	2'							х					
9:20	10.6.23	S	1		FS03	3	2'							х					
9:30	10.6.23	S	1		FS04	4	2'							х					
9:40	10.6.23	S	1		FS05 5 2'						х								
9:50	10.6.23	S	1		FS06	4	2'							х					
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				10[10123	- Kyd														
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Addition	al Instruc	tions:																	
				ticity of this sample. may be grounds for	I am aware that tampering with or intentionally misli legal action. Sampled by: GM	abelling the samp	ple loca	ation,			100						ceived on ice the da less than 6 °C on sub		
Relinquish	ed by: /Signa	iture)	Date	10123 Time	Received by: (Signature) Willell Curry	Date 10-10	23	Time /	120	0	Rece	eivec	on ice:		ab Us	se On	ly		
Much		bruk	_ Date	11-13 1	100 more millso		23	Time	130	5	T1			T2			<u></u>		
,	ed by: (Signa	11	60 10	11.23 Time	330 Regeived by (Signature)	10.12.	23	Time	2	5	AVG	Ten	np °C	4					
			1.0	2 2 21	000000000000000000000000000000000000000	Container										_		-	-





Project Inform	at
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Ploss Client: WPX E	7
Client: WPX E	ne

Chain of Custody

Page	_1_	_ of _	1_	ceived b
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RA				: 6/5/202
				ceived by OCD: 6/5/2024 11:43:43 AM
				3 AM

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roject: Brushy						tention: Jim Raley		Lab WO# Job Number			1D 2D 3D			Standard	CWA	SDWA			
roject Manage						Address: 5315 Buena Vista Dr.		E310074		01058-8007					5 day TAT				
ddress: 13000					Ci	City, State, Zip: Carlsbad, NM, 88220							sis and Metho	d			1000000		RCRA
ity, State, Zip			79765		Ph	ione: 575-885-7502													
hone: 832-54	The state of the state of	-			Er	nail: jim.raley@dvn.com			8015									State	
mail: Devon-t	team@	eteche	env.com		W	0: 21153712			by					TV.			NM CO	UT AZ	TX
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Time Date Sampled Sample	ampled Sampled Matrix Containers Sample ID						Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC		CDOC		Remarks	
9:00 10.6.	.23	S	1			FS01	11	2'						x			Corre	orter	proje
9:10 10.6.	.23	S	1			FS02	2	2'						x			2011		ι. Ψ
9:20 10.6.	73	5	1			FS03		2'									TUNG	STATE OF THE PARTY	match
						1303	3							X					me on
9:30 10.6.	.23	S	1			FS04	4	2'						х			Samu	deC	ontainer
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Additional Inst	struction	ons:																	
(field sampler), atte	test to th	ne validity a	and authent	icity of this s	ample. I am awa	re that tampering with or intentionally midals	olling the same	le loca	tion		-	Sample	s requiring thermal r	reserva	tion m	ist ha ware	lund on its the day	they are came	ilad or
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																			
Relinquished by:	_		Date		Time	Received by: (Signature)	Date		Time			OPPLIENT		1-	bille	e Only			Mary Please
为样			1011	0123	12:20	Michelle teach	10-10	23	77 77 Par m	120)	Rece	eived on ice:)/ N	e Only			
elinquished by: (Signature) Date 10-11-33 Time Received by: (Signature) WWChille Kingh 10-11-33 Time Received by: (Signature) WHS00					10.11.	23	17	30	,	T1		T2			T3				
Relinquished by: (Signature) Date Time 2330 Regelved by (Signature) 2330 Regelved by (Signature)					Date 10.12.	72	Time	20	5	AVG	Temp °C	4							
sample Matrix: 5 - Sc	Soil, 5d -	Solid, Sg - S	Sludge, A - A	queous, O · (Other	Committee of the commit	Container	Type	0.0	lass	_	_	lastic, ag - ami	oer of	acc v	- VOA	WAY BUT E	STORE AND	Share
						ther arrangements are made. Hazardou	camples will	hara	0 0	1	- P	17/1	and for the transfer of the	C B	U33, V	VOA			

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envirotech 85 envirotech 9504

Printed: 10/12/2023 12:24:09PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

					-	
Client:	WPX Energy - Carlsbad	Date Received:	10/12/23	08:25	Work Order ID:	E310074
Phone:	(539) 573-4018	Date Logged In:	10/11/23	15:32	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/17/23	17:00 (3 day TAT)		
<i>a</i>	G . 1 (GOG)					
	Custody (COC)					
	the sample ID match the COC?	1. d COC	No			
	te number of samples per sampling site location mate	en the COC	Yes			
	amples dropped off by client or carrier?	1 1 0	Yes	Carrier: <u>C</u>	<u>Courier</u>	
	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes			
5. were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion	•	Yes		Comme	nts/Resolution
Sample T	urn Around Time (TAT)				.	41.1
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project name on sample	
Sample C	<u>Cooler</u>				match the project name	e on COC. Client
	ample cooler received?		Yes		asked to change the pr	oject name on the
8. If yes, v	was cooler received in good condition?		Yes		COC.	
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes			
Sample C		•	='			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
18. Are no	on-VOC samples collected in the correct containers?		Yes			
19. Is the a	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field Lab	<u>oel</u>					
20. Were	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
	ate/Time Collected? ollectors name?		Yes			
	reservation		Yes			
	the COC or field labels indicate the samples were pro-	eserved?	No			
	imple(s) correctly preserved?	osci ved.	NA			
	filteration required and/or requested for dissolved ma	etals?	No			
	se Sample Matrix		110			
	the sample have more than one phase, i.e., multiphas	e?	No			
	does the COC specify which phase(s) is to be analyze		NA			
			INA			
	act Laboratory	0	NT.			
	amples required to get sent to a subcontract laborator		No	0.1	27.4	
	subcontract laboratory specified by the client and if	so wno?	NA	Subcontract Lab	: NA	
Client In	struction					
						0

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310126

Job Number: 01058-0007

Received: 10/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/25/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/25/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310126

Date Received: 10/19/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/19/2023 8:15:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
ı	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/23 12:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07 4'	E310126-01A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS08 4'	E310126-02A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS09 4'	E310126-03A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS10 4'	E310126-04A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS11 4'	E310126-05A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS12 4'	E310126-06A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS13 4'	E310126-07A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS14 4'	E310126-08A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS15 4'	E310126-09A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS16 4'	E310126-10A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS17 4'	E310126-11A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS18 4'	E310126-12A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS19 4'	E310126-13A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS20 4'	E310126-14A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS21 4'	E310126-15A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS22 4'	E310126-16A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS23 4'	E310126-17A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS24 4'	E310126-18A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS25 4'	E310126-19A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS26 4'	E310126-20A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS27 4'	E310126-21A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
FS28 4'	E310126-22A	Soil	10/16/23	10/19/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS07 4' E310126-01

		E310120-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		103 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
Chloride	1260	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS08 4'

E310126-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.8 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	Analyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		98.8 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
Chloride	1180	20.0	1	10/19/23	10/19/23	

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS09 4'

E310126-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	Analyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		101 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
		20.0		10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS10 4'

E310126-04						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		102 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
Chloride	1350	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS11 4' E310126-05

		E310120-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Coluene	ND	0.0250	1	10/19/23	10/20/23	
-Xylene	ND	0.0250	1	10/19/23	10/20/23	
o,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		98.4 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2342076
Chloride	1240	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS12 4' E310126-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: BA		Batch: 2342076
Chloride	1270	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS13 4'

		E310126-07				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.4 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2342076
Chloride	1490	20.0	1	10/19/23	10/19/23	·



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS14 4'

		E310126-08				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		98.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2342076
Chloride	1370	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS15 4'

		E310126-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		98.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076
Chloride	1410	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS16 4' E310126-10

		E310120-10				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
,				lyst: RKS		Batch: 2342066
Volatile Organics by EPA 8021B	mg/kg	mg/kg		-	10/20/22	Batch: 2342000
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		95.2 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	lyst: BA		Batch: 2342076
Chloride	1240	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS17 4'

		E310126-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.6 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		96.2 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2342076
Chloride	935	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS18 4'

E310126-12	

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		95.4 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2342076
Chloride	383	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS19 4'

E310126-13

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.2 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2342076
Chloride	429	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS20 4'

		E310126-14				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.5 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2342076
Chloride	2220	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS21 4' E310126-15

		E310120-13				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		106 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2342076
Chloride	466	20.0	1	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS22 4' E310126-16

		E310120-10				
Austra	Dl4	Reporting	Dilari	D	A	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		102 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
Chloride	422	20.0	1	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS23 4'

		E310126-17				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2342066	
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2342066	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2342068	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		99.8 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	nalyst: BA		Batch: 2342076
Chloride	984	20.0	1	10/19/23	10/20/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS24 4'

E310126-18

		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		97.6 %	50-200	10/19/23	10/20/23	
A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2342076
Anions by EPA 300.0/9056A	88	0 0		•		



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS25 4' E310126-19

	E310120-17				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS	<u>-</u>	Batch: 2342066
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0500	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
	95.5 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
ND	20.0	1	10/19/23	10/20/23	
	90.3 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
ND	25.0	1	10/19/23	10/20/23	
ND	50.0	1	10/19/23	10/20/23	
	96.7 %	50-200	10/19/23	10/20/23	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
1230	20.0	1	10(10(22	10/20/23	•
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 MB/kg mg/kg MB/kg mg/kg ND 20.0 90.3 % mg/kg ND 25.0 ND 50.0 96.7 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 95.5 % 70-130 70-130 mg/kg mg/kg Analy ND 20.0 1 90.3 % 70-130 mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 96.7 % 50-200 mg/kg Mg/kg Analy	Reporting Result Limit Dilution Prepared mg/kg Malyst: RKS ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0500 1 10/19/23 ND 0.0250 1 10/19/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23 ND 50.0 1 10/19/23 ND 50.0 1 10/19/23 ND 50.0 1 10/19/23 Mg/kg Mg/kg Analyst: KM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0500 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 10/20/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 ND 50.0 1 10/19/23 10/20/23 Mg/kg mg/kg Analyst: BA



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS26 4' E310126-20

		E310120-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342066
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2342066
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342068
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		95.9 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2342076
Chloride	1990	20.0	1	10/19/23	10/20/23	·



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS27 4' E310126-21

		E310126-21				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342065
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Toluene	ND	0.0250	1	10/19/23	10/19/23	
p-Xylene	ND	0.0250	1	10/19/23	10/19/23	
o,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2342065
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342098
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		82.7 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: IY		Batch: 2342077
Chloride	3210	40.0	2	10/19/23	10/20/23	



Chloride

Sample Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

FS28 4'

		E310126-22					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	-	Analyst: RI	KS		Batch: 2342065
Benzene	ND	0.0250	1	l	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	[10/19/23	10/20/23	
Toluene	ND	0.0250	1	l	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	l	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	l	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	l	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		94.3 %	70-130		10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RI	KS		Batch: 2342065
Gasoline Range Organics (C6-C10)	ND	20.0	1	I	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130		10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: Kl	М		Batch: 2342098
Diesel Range Organics (C10-C28)	ND	25.0	1	l	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	l	10/20/23	10/21/23	
Surrogate: n-Nonane		84.7 %	50-200		10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY	-		Batch: 2342077

40.0

3220

2

10/19/23

10/20/23



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/25/2023 12:15:12PM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2342065-BLK1) Prepared: 10/19/23 Analyzed: 10/19/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.49 8.00 93.7 70-130 LCS (2342065-BS1) Prepared: 10/19/23 Analyzed: 10/19/23 4.49 89.9 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.50 0.0250 5.00 90.1 70-130 4.62 0.0250 5.00 92.4 70-130 Toluene o-Xylene 4.63 0.0250 5.00 92.6 70-130 9.33 10.0 93.3 70-130 0.0500 p.m-Xvlene 93.0 14.0 15.0 70-130 Total Xylenes 0.0250 8.00 93.8 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.51 Matrix Spike (2342065-MS1) Source: E310123-04 Prepared: 10/19/23 Analyzed: 10/19/23 4.39 0.0250 5.00 ND 87.7 54-133 Benzene ND 61-133 Ethylbenzene 4.39 0.0250 5.00 87.7 Toluene 4.51 0.0250 5.00 ND 90.1 61-130 4.51 ND 63-131 5.00 90.3 0.0250 o-Xylene p,m-Xylene 9.08 0.0500 10.0 ND 90.8 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.42 8.00 Matrix Spike Dup (2342065-MSD1) Source: E310123-04 Prepared: 10/19/23 Analyzed: 10/19/23 4.54 0.0250 5.00 ND 90.7 54-133 3.36 4.55 61-133 3.72 0.0250 5.00 ND 91.0 20 Ethylbenzene

4 68

4.70

9.43

14.1

7.47

0.0250

0.0250

0.0500

0.0250

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

93.6

93.9

94.3

94.2

93.4



61-130

63-131

63-131

63-131

70-130

3.73

3.93

3.85

3.87

20

20

20

20

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/25/2023 12:15:12PM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2342066-BLK1) Prepared: 10/19/23 Analyzed: 10/20/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.66 8.00 95.8 70-130 LCS (2342066-BS1) Prepared: 10/19/23 Analyzed: 10/20/23 5.21 104 70-130 5.00 Benzene 0.0250 Ethylbenzene 5.11 0.0250 5.00 102 70-130 5.18 0.0250 5.00 104 70-130 Toluene 103 o-Xylene 5.13 0.0250 5.00 70-130 10.4 10.0 104 70-130 0.0500 p.m-Xvlene 104 70-130 15.5 15.0 Total Xylenes 0.0250 8.00 96.3 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.71 Matrix Spike (2342066-MS1) Source: E310126-02 Prepared: 10/19/23 Analyzed: 10/20/23 5.19 0.0250 5.00 ND 54-133 Benzene ND 102 61-133 Ethylbenzene 5.10 0.0250 5.00 Toluene 5.16 0.0250 5.00 ND 103 61-130 ND 102 63-131 5.11 5.00 0.0250 o-Xylene p,m-Xylene 10.4 0.0500 10.0 ND 104 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.70 8.00 Matrix Spike Dup (2342066-MSD1) Source: E310126-02 Prepared: 10/19/23 Analyzed: 10/20/23 5.39 0.0250 5.00 ND 54-133 3.75 61-133 3.70 5.29 0.0250 5.00 ND 106 20 Ethylbenzene 61-130 ND 107 3.82 20

5.36

5.31

10.8

16.1

7.72

0.0250

0.0250

0.0500

0.0250

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

106

108

107

96.5

63-131

63-131

63-131

70-130

3.84

3.91

3.89

20

20

20



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	ROSS DRAW UNIT #011 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				10/2	25/2023 12:15:12PM
	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	70	70	%0	%0	Notes
Blank (2342065-BLK1)							Prepared: 1	0/19/23 Anal	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		8.00		90.5	70-130			
LCS (2342065-BS2)							Prepared: 1	0/19/23 Anal	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			
Matrix Spike (2342065-MS2)				Source:	E310123-	04	Prepared: 1	0/19/23 Anal	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	44.1	20.0	50.0	ND	88.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.29		8.00		91.1	70-130			
Matrix Spike Dup (2342065-MSD2)				Source:	E310123-	04	Prepared: 1	0/19/23 Anal	lyzed: 10/19/23
Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.7	70-130	10.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				10	25/2023 12:15:12PN
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2342066-BLK1)							Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.17		8.00		89.6	70-130			
LCS (2342066-BS2)							Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.1	70-130			
Matrix Spike (2342066-MS2)				Source:	E310126-0	02	Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.3	70-130			
Matrix Spike Dup (2342066-MSD2)				Source:	E310126-0	02	Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130	2.03	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.0	70-130			



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno				1	10/25/2023 12:15:12P
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342068-BLK1)							Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.7		50.0		101	50-200			
LCS (2342068-BS1)							Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
urrogate: n-Nonane	49.6		50.0		99.2	50-200			
Matrix Spike (2342068-MS1)				Source:	E310126-	05	Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	38-132			
urrogate: n-Nonane	57.5		50.0		115	50-200			
Matrix Spike Dup (2342068-MSD1)				Source:	E310126-	05	Prepared: 1	0/19/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	8.64	20	
'urrogate: n-Nonane	53.1		50.0		106	50-200			

WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #011Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Gilbert Moreno10/25/2023 12:15:12PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno)			10	0/25/2023 12:15:12PI
	Nonha	logenated Or	ganics by l	EPA 80151	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342098-BLK1)							Prepared: 1	0/20/23 An	alyzed: 10/21/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	43.9		50.0		87.7	50-200			
LCS (2342098-BS1)							Prepared: 10	0/20/23 An	alyzed: 10/21/23
Diesel Range Organics (C10-C28)	226	25.0	250		90.4	38-132			
Surrogate: n-Nonane	44.2		50.0		88.4	50-200			
Matrix Spike (2342098-MS1)				Source:	E310184-	02	Prepared: 1	0/20/23 An	alyzed: 10/21/23
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.0	38-132			
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			
Matrix Spike Dup (2342098-MSD1)				Source:	E310184-	02	Prepared: 10	0/20/23 An	alyzed: 10/21/23
Diesel Range Organics (C10-C28)	230	25.0	250	ND	92.1	38-132	0.0528	20	
Surrogate: n-Nonane	42.6		50.0		85.3	50-200			
		23.0		ND			0.0328	20	

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	ROSS DRAW UNIT #011 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/2023 12:15:12PM

Anions	by	EPA	300	.0/9	056A
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Analyst: BA	

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342076-BLK1)							Prepared: 1	0/19/23 Anal	yzed: 10/19/23
Chloride	ND	20.0							
LCS (2342076-BS1)							Prepared: 1	0/19/23 Anal	yzed: 10/19/23
Chloride	241	20.0	250		96.5	90-110			
Matrix Spike (2342076-MS1)				Source:	E310126-0	03	Prepared: 1	0/19/23 Anal	yzed: 10/19/23
Chloride	1600	20.0	250	1290	125	80-120			M1
Matrix Spike Dup (2342076-MSD1)				Source:	E310126-0	03	Prepared: 1	0/19/23 Anal	yzed: 10/19/23

250

20.0

1290

98.0

80-120

4.27

1530

Matrix Spike Dup (2342077-MSD1)

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number Project Manager	: 0	OSS DRAW U 1058-0007 Gilbert Moreno				10	Reported: 0/25/2023 12:15:12PM
		Anions	by EPA	300.0/9056	4				Analyst: IY
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2342077-BLK1)							Prepared: 1	0/19/23 Ana	alyzed: 10/20/23
Chloride	ND	20.0							
LCS (2342077-BS1)							Prepared: 1	0/19/23 Ana	alyzed: 10/20/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2342077-MS1)				Source:	E310127-	01	Prepared: 1	0/19/23 Ana	alvzed: 10/20/23

250

250

20.0

20.0

732

174

192

Source: E310127-01

253

80-120

80-120

6.32

Prepared: 10/19/23 Analyzed: 10/20/23

20

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/25/23 12:15

M1 Matrix spike recovery was above acceptance limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: V	Client: WPX Energy Permian, LLC. Project: ROSS DRAW UNIT #011					Bill To				L	ab U	lse Or	nly				TAT			EPA P	rogram
* C C C C C C C C C C					Atte	ention: Jim Raley		Lab	WO	#			Num		1D	2D	2D 3D Standard		ndard	CWA	SDWA
Project	Manager:	Gilbert N	Noreno			ress: 5315 Buena Vista Dr.	Man of the		310		0	ac	58	.0007				5 da	y TAT		
Address	: 13000 W	County	Rd 100		City	, State, Zip: Carlsbad, NM, 88	8220							nd Metho	d						RCRA
City, Sta	te, Zip_O	lessa,TX,	79765		Pho	ne: 575-885-7502									T				100		
Phone:	832-541-7	719			Ema	ail: jim.raley@dvn.com	and a	1	à						1			Г		State	
Email: D	evon-tear	n@etech	env.com		WO: 21153712			1	080						+			N	IM CO	UT AZ	TX
3					-	dent ID: mNHMP1412241998, nAB1	712951426	1	0/0	-	_		0.		ΣN						
Collecte	d by: Edyt	e Konan				728553778, nAB1728551205, nAPP220		7	0/0	/ 802	8260	6010	e 300				¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Depth(ft.)	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос		GDOC			Remarks	í
9:00	10.16.23	S	1			FS07	1	4'							х						
9:10	10.16.23	S	1			FS08	2	4'						1	х						
9:20	10.16.23	S	1			FS09	3	4'							х						
9:30	10.16.23	S	1			FS10	4	4'							х						
9:40	10.16.23	S	1	FS11		5	4'							х							
9:50	10.16.23	S	1	FS12		6	4'							х							
10:00	10.16.23	S	1			FS13	7	4'							х						
10:10	10.16.23	S	1			FS14	8	4'							х						
10:20	10.16.23	S	1			FS15	9	4'							х						
10:30	10.16.23	S	1			FS16	10	4'							х						
Addition	nal Instruc	tions:								the same		,	dull lave								
						that tampering with or intentionally m	nislabelling the sar	nple lo	ocation	,										ay they are sar bsequent days	
Relinquished by (Signature) Date Time Received by: (Signature)						Received by: (Signature)	Date 18	3.7	Time	216)	Lab Use Only Received on ice: (Y)/ N									
	Relinquished by: (Signature) Date 1823 (A C C C C C C C C C C C C C C C C C C					Received by: (Signature)		1				T1 T2 T3									
Relinquish	ed by: (Signa	musso	Date 10	18.13 Time	lloo	Received by Signature) Ma	- 10.19.		Time	15	5	AVG Temp °C_4_									
Sample Mat				Aqueous, O - Other			Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA														
						her arrangements are made. Haza													ort for the	e analysis o	f the above

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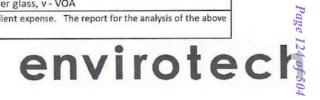
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samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Client: V	lient: WPX Energy Permian, LLC. roject: ROSS DRAW UNIT #011			Bill To		1889		L	ab U	se On	ly		TAT			CC-III-CIC	EPA Program				
Project:	ROSS DRA	W UNIT	#011		Att	ention: Jim Raley		Lab	WO	#		Job	Num	ber			3D	3D Standard		CWA	SDWA
Project N	Manager:	Gilbert N	loreno			dress: 5315 Buena Vista Dr.		E3	WO:	12	6	OIC	X58	50007				5 0	day TAT		
Address:	: 13000 W	County	Rd 100		Cit	y, State, Zip: Carlsbad, NM,	88220							nd Metho					Manual Property of the Parket		RCRA
City, Sta	te, Zip_O	dessa,TX,	79765		Pho	one: 575-885-7502			T		T	T			1	T			Tiene.		
Phone: 8	332-541-7	719			Em	ail: jim.raley@dvn.com		1	à						1				-	State	
Email: D	evon-tear	n@etech	env.com			0: 21153712		1	ORO						1			8	NM CO	UT AZ	TX
					Inc	ident ID: mNHMP1412241998, nA	B1712951426.	1	30/0	н	1		0.0		Σ		_				
Collecte	d by: Edyt	e Konan				1728553778, nAB1728551205, nAPP2		3	q/o	805	826	5010	300		1		×		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks	į
10:40	10.16.23	S	1			FS17	(1	4'							х		- 1				
10:50	10.16.23	S	1			FS18	12	4'			T				х						
11:00	10.16.23	S	1			FS19	13	4'							х						
11:10	10.16.23	S	1			FS20	14	4'							х						
11:20	10.16.23	S	1		FS21		15	4'		\vdash					х						
11:30	10.16.23	S	1	FS22		10	4'							x							
11:40	10.16.23	S	1			FS23	17	4'				Г			х						
11:50	10.16.23	S	1			FS24	18	4'			T				х						
12:00	10.16.23	s	1			F\$25	19	4'							х						
12:10	10.16.23	S	1			FS26	20	4'		Г	T	Т			х						
Addition	al Instruc	tions:						-			1	1									
				ticity of this sample may be grounds fo		e that tampering with or intentionally	y mislabelling the san	nple lo	cation	,									d on ice the da han 6 °C on sub		
	ed by: (Sign:		Date	Time		IZM	Date 18	3.2	5 Time	2	10			d on ice:		Lab U	se Or				
1010	ed to Sign	* CHU	11 10	18.237	74		Date		Time			T1	CIVE	on ice.	T2	י יעי			T3		
Relinquished by Signature) Date Time Reserved by: Agrature Andew MUSSO 10.18.7.3 Photom Musso 10.18.7.3 Reserved by: Agrature Man					Date 10.19:2	123 8:15 AVG Temp °C 4															
Sample Mat			- Sludge, A -	Aqueous, O - Other		1/1	Containe	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA													
						ther arrangements are made. Ha													port for the	analysis o	f the above





samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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Project: I					Attention: Jim Raley		Lab	WO#	#		Job	Num	ber _	1D	2D	3D		CWA	SDWA	
Project N		A STATE OF THE PARTY OF THE PAR			Address: 5315 Buena Vista Dr.		IE?	310	120	0	010	228.	000				5 day TAT			
Address:		Territory (1975)	2189-1602-2501		City, State, Zip: Carlsbad, NM, 8	8220							nd Meth				Carrier Co		RCRA	
City, Stat			79765		Phone: 575-885-7502	Land I								1						
Phone: 8	32-541-7	719			Email: jim.raley@dvn.com			þ										State		
Email: De	evon-tean	n@etech	env.com		WO: 21153712			ORO									NM CC	UT AZ	TX	
					Incident ID: mNHMP1412241998, nAB1712951426,			TPH GRO/DRO/ORO by 3015	п	_	_	0.0		Σ		_				
Collected	by: Edyt	e Konan			nAB1728553778, nAB1728551205, nAPP220		E	1	0/0	802	826	5010	300.0				¥	×		
Time	Date	Matrix	No. of	Sample ID		Lab	Depth(ft.)	GR	8015 BTEX by 802	VOC by 8260	Metals 6010	Chloride		BGDOC		GDOC		Remarks		
Sampled	Sampled	IVIGUIA	Containers	Sample ID		Number	Dep	TPH 801	BTE	00	Me	공		BG		g		Kemark:		
12:20	10.16.23	S	1		FS27	01	4'							x						
12.20	10/10/10		-		1327	21	7							^						
12:30	10.16.23	S	1		FS28	22	4'							X						
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Addition	al Instruc	tions:																		
				0	I am aware that tampering with or intentionally n	nislabelling the sam	ple lo	cation,									eceived on ice the less than 6 °C on s			
			Date	may be grounds for		Install of		Trime		_		W. 10 5 5 1	Action and	-						
telinquishe fet	d by: (Signa	ature)		18/23 12	Received by Use hature	19/10/18	1.73	1179) /1	7					Lab U		ıγ			
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A	New	MUS		10	400 Carth Man	- 10.19.2	23	8	:15	-	1	- T	np °C	4						
1	400	1.109	20 110	18.03 12 Aqueous, 0 - Other	a war free										-1		•	THE PERSON NAMED IN		
ample Matr	IX: 5 - Soil, Se	1 - Solid, Sg -	Sludge, A -	Aqueous, O - Other		Containe	rIVD	D' 0 -	PIASS	n - r	noiv/	niasti	C 30 - 31	nner	PIASS.	v - V()	A			



Printed: 10/19/2023 12:10:56PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

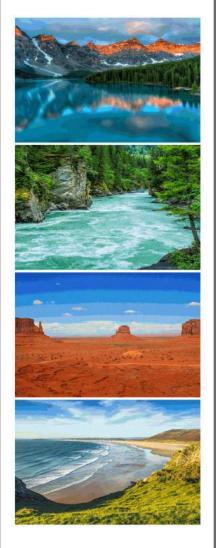
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/19/23	08:15		Work Order ID:	E310126
Phone:	(539) 573-4018	Date Logged In:	10/18/23	16:49		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:		17:00 (4 day TAT)		Logged in By.	Cartini Mais
Linan.	devon team@ensotam.com	Bue Bute.	10/25/25	17.00 (1 day 1111)			
Chain of	Custody (COC)						
1. Does th	te sample ID match the COC?		Yes				
	the number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	ourier		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes	eumer. <u>e</u>	<u>ourier</u>		
	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•				Comment	s/Resolution
Sample T	urn Around Time (TAT)	on.					
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>-</u>						
	ample cooler received?		Yes				
	was cooler received in good condition?		Yes				
• 1	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?						
	were custody/security seals intact?		No				
•	•		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	risible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	<u>Container</u>						
14. Are ac	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	appropriate volume/weight or number of sample contai	ners collected?	Yes				
Field Lab	<u>el</u>						
20. Were t	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
	reservation		2.7				
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontra	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborato	ory?	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab	: NA		
Client In	struction						
<u> </u>							

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310296

Job Number: 01058-0007

Received: 10/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/3/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/3/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310296

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	Project Name: ROSS DRAW UNIT #011				
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:			
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/03/23 16:40			

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS29 4'	E310296-01A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS30 4'	E310296-02A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS31 4'	E310296-03A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS32 4'	E310296-04A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS33 4'	E310296-05A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS34 4'	E310296-06A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS35 4'	E310296-07A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS36 4'	E310296-08A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS37 4'	E310296-09A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS38 4'	E310296-10A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS39 4'	E310296-11A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
FS40 4'	E310296-12A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS29 4' E310296-01

	E310290-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
ND	0.0500	1	10/31/23	10/31/23	
ND	0.0250	1	10/31/23	10/31/23	
	98.0 %	70-130	10/31/23	10/31/23	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
ND	20.0	1	10/31/23	10/31/23	
	89.0 %	70-130	10/31/23	10/31/23	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2344044
ND	25.0	1	11/01/23	11/02/23	
ND	50.0	1	11/01/23	11/02/23	
	91.1 %	50-200	11/01/23	11/02/23	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2344079
39.6	20.0	1	11/02/23	11/03/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0500 ND 0.0250 98.0 % mg/kg mg/kg mg/kg ND 20.0 89.0 % mg/kg ND 25.0 ND 50.0 91.1 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 mg/kg mg/kg Anal ND 20.0 1 89.0 % 70-130 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 91.1 % 50-200 mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0500 1 10/31/23 ND 0.0250 1 10/31/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/31/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/01/23 ND 50.0 1 11/01/23 ND 50.0 1 11/01/23 mg/kg mg/kg Analyst: KM	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 ND 0.0500 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 ND 0.0250 1 10/31/23 10/31/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/31/23 10/31/23 mg/kg mg/kg Analyst: KK ND 25.0 1 11/01/23 11/02/23 ND 50.0 1 11/01/23 11/02/23 ND 50.0 1 11/01/23 11/02/23 Mg/kg mg/kg Analyst: BA



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS30 4'

E310296-02								
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2344026		
Benzene	ND	0.0250	1	10/31/23	10/31/23			
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23			
Toluene	ND	0.0250	1	10/31/23	10/31/23			
o-Xylene	ND	0.0250	1	10/31/23	10/31/23			
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23			
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23			
Surrogate: 4-Bromochlorobenzene-PID		98.1 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2344026			
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2344044		
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23			
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23			
Surrogate: n-Nonane		92.4 %	50-200	11/01/23	11/02/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2344079		
Chloride	37.9	20.0	1	11/02/23	11/03/23			



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS31 4'

		E310296-03						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2344026		
Benzene	ND	0.0250	1	10/31/23	10/31/23			
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23			
Toluene	ND	0.0250	1	10/31/23	10/31/23			
o-Xylene	ND	0.0250	1	10/31/23	10/31/23			
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23			
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23			
Surrogate: 4-Bromochlorobenzene-PID		101 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2344026		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2344044		
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23			
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23			
Surrogate: n-Nonane		91.8 %	50-200	11/01/23	11/02/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2344079		
Chloride	262	20.0	1	11/02/23	11/03/23			



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS32 4'

E310296-04								
Reporting								
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2344026		
Benzene	ND	0.0250	1	10/31/23	10/31/23			
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23			
Toluene	ND	0.0250	1	10/31/23	10/31/23			
o-Xylene	ND	0.0250	1	10/31/23	10/31/23			
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23			
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23			
Surrogate: 4-Bromochlorobenzene-PID		98.6 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2344026		
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2344044		
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23			
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23			
Surrogate: n-Nonane		90.4 %	50-200	11/01/23	11/02/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2344079		
Chloride	506	20.0	1	11/02/23	11/03/23			



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS33 4'

		E310296-05						
Reporting								
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes		
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	ılyst: RKS		Batch: 2344026		
Benzene	ND	0.0250	1	10/31/23	10/31/23			
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23			
Toluene	ND	0.0250	1	10/31/23	10/31/23			
o-Xylene	ND	0.0250	1	10/31/23	10/31/23			
p,m-Xylene	ND	0.0500	1	10/31/23	10/31/23			
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23			
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2344026			
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23			
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	10/31/23	10/31/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2344044		
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23			
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23			
Surrogate: n-Nonane		91.7 %	50-200	11/01/23	11/02/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2344079		
Chloride	503	20.0	1	11/02/23	11/03/23			



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS34 4' E310296-06

		L510270 00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	10/31/23	
Ethylbenzene	ND	0.0250	1	10/31/23	10/31/23	
Toluene	ND	0.0250	1	10/31/23	10/31/23	
p-Xylene	ND	0.0250	1	10/31/23	10/31/23	
o,m-Xylene	ND	0.0500	1	10/31/23	10/31/23	
Total Xylenes	ND	0.0250	1	10/31/23	10/31/23	
Surrogate: 4-Bromochlorobenzene-PID		98.4 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	10/31/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	10/31/23	10/31/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	58.3	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		92.5 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2344079
Chloride	472	20.0	1	11/02/23	11/03/23	



Chloride

Sample Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS35 4'

E310296-07 Reporting Analyte Result Limit Dilution Analyzed Prepared Notes Analyst: RKS Batch: 2344026 mg/kg mg/kg Volatile Organics by EPA 8021B 10/31/23 11/01/23 ND 0.0250 Benzene 1 10/31/23 11/01/23 Ethylbenzene ND 0.0250ND 0.02501 10/31/23 11/01/23 Toluene 10/31/23 1 11/01/23 o-Xylene ND 0.02501 10/31/23 11/01/23 ND 0.0500 p,m-Xylene 10/31/23 11/01/23 1 Total Xylenes ND 0.025010/31/23 11/01/23 97.6 % 70-130 Surrogate: 4-Bromochlorobenzene-PID Analyst: RKS mg/kg Batch: 2344026 Nonhalogenated Organics by EPA 8015D - GRO mg/kg 10/31/23 11/01/23 ND 20.0 1 Gasoline Range Organics (C6-C10) Surrogate: 1-Chloro-4-fluorobenzene-FID 90.4 % 10/31/23 11/01/23 70-130 mg/kg mg/kg Analyst: KM Batch: 2344044 Nonhalogenated Organics by EPA 8015D - DRO/ORO ND 25.0 11/01/23 11/02/23 Diesel Range Organics (C10-C28) ND 11/01/23 11/02/23 Oil Range Organics (C28-C36) 50.0 1 86.1 % 11/01/23 11/02/23 Surrogate: n-Nonane 50-200 Analyst: BA Batch: 2344079 Anions by EPA 300.0/9056A mg/kg mg/kg

20.0

1

11/02/23

11/03/23

1430



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS36 4'

E310296-08

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	Analyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.8 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		88.7 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2344079
Chloride	5220	100	5	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS37 4'

		E310296-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
o,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		89.4 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2344079
Chloride	2130	400	20	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS38 4'

		E310296-10				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		86.5 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2344079
Chloride	281	20.0	1	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS39 4'

		E310296-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: RKS		Batch: 2344026
Benzene	ND	0.0250	1	10/31/23	11/01/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/01/23	
Toluene	ND	0.0250	1	10/31/23	11/01/23	
o-Xylene	ND	0.0250	1	10/31/23	11/01/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/01/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/01/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: RKS		Batch: 2344026
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/01/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.1 %	70-130	10/31/23	11/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0	1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/01/23	11/02/23	
Surrogate: n-Nonane		90.7 %	50-200	11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2344079
Chloride	3340	400	20	11/02/23	11/03/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

FS40 4'

E310296-12

	Reporting				
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2344026
ND	0.0250	1	10/31/23	11/01/23	
ND	0.0250	1	10/31/23	11/01/23	
ND	0.0250	1	10/31/23	11/01/23	
ND	0.0250	1	10/31/23	11/01/23	
ND	0.0500	1	10/31/23	11/01/23	
ND	0.0250	1	10/31/23	11/01/23	
	94.7 %	70-130	10/31/23	11/01/23	
mg/kg	mg/kg	Ar	nalyst: RKS		Batch: 2344026
ND	20.0	1	10/31/23	11/01/23	
	89.6 %	70-130	10/31/23	11/01/23	
mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2344044
ND	25.0	1	11/01/23	11/02/23	
ND	50.0	1	11/01/23	11/02/23	
	91.6 %	50-200	11/01/23	11/02/23	
mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2344079
3070	100	5	11/02/23	11/03/23	_
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 20.0250 89.6 % mg/kg MD 25.0 ND 50.0 91.6 % mg/kg mg/kg mg/kg	Result Limit Dilution mg/kg mg/kg Ar ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 MB/kg mg/kg Ar ND 20.0 1 89.6 % 70-130 mg/kg mg/kg Ar ND 25.0 1 ND 50.0 1 91.6 % 50-200 mg/kg mg/kg Ar	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0500 1 10/31/23 ND 0.0250 1 10/31/23 ND 0.0250 1 10/31/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/31/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/01/23 ND 50.0 1 11/01/23 ND 50.0 1 11/01/23 mg/kg mg/kg Analyst: KM	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/31/23 11/01/23 ND 0.0250 1 10/31/23 11/01/23 ND 0.0250 1 10/31/23 11/01/23 ND 0.0500 1 10/31/23 11/01/23 ND 0.0250 1 10/31/23 11/01/23 ND 0.0250 1 10/31/23 11/01/23 MD 0.0250 1 10/31/23 11/01/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/31/23 11/01/23 mg/kg mg/kg Analyst: KM ND 25.0 1 11/01/23 11/02/23 ND 50.0 1 11/01/23 11/02/23 ND 50.0 1 11/01/23 11/02/23 ND 50.0 1 11/01/23 11/02/23 <



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/3/2023 4:40:22PM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2344026-BLK1) Prepared: 10/31/23 Analyzed: 10/31/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.96 8.00 99.5 70-130 LCS (2344026-BS1) Prepared: 10/31/23 Analyzed: 10/31/23 4.60 92.0 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.74 0.0250 5.00 94.8 70-130 4.83 0.0250 5.00 96.6 70-130 Toluene 97.9 o-Xylene 4.89 0.0250 5.00 70-130 9.78 10.0 97.8 70-130 0.0500 p.m-Xvlene 97.9 70-130 14.7 15.0 Total Xylenes 0.0250 8.00 101 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.10 Matrix Spike (2344026-MS1) Source: E310296-03 Prepared: 10/31/23 Analyzed: 10/31/23 4.57 0.0250 5.00 ND 91.4 54-133 Benzene ND 94.2 61-133 Ethylbenzene 4.71 0.0250 5.00 Toluene 4.80 0.0250 5.00 ND 95.9 61-130 4.87 ND 97.3 63-131 5.00 0.0250 o-Xylene p,m-Xylene 9.71 0.0500 10.0 ND 97.1 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 8.21 8.00 Matrix Spike Dup (2344026-MSD1) Source: E310296-03 Prepared: 10/31/23 Analyzed: 10/31/23 4.50 0.0250 5.00 ND 89.9 54-133 1.61 20 61-133 1.02 4.66 0.0250 5.00 ND 93.3 20 Ethylbenzene 61-130 Toluene 4 74 0.0250 5.00 ND 94.8 1.20 20 4.82 5.00 ND 96.3 63-131 1.07 20 o-Xylene 0.0250 0.815 9.63 10.0 ND 96.3 63-131 20

0.0500

0.0250

15.0

8.00

ND

96.3

102

63-131

70-130

0.900

20

14.4

8.15



p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				1	1/3/2023 4:40:22PM		
	Nor	nhalogenated	Organics	by EPA 80	15D - G	RO		Analyst: RKS			
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec	Rec Limits	RPD %	RPD Limit %	Notes		
	mg/kg	ing/kg	mg/kg	mg/kg	70	70	70	70	Notes		
Blank (2344026-BLK1)							Prepared: 1	0/31/23 Ana	alyzed: 10/31/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		90.1	70-130					
LCS (2344026-BS2)							Prepared: 1	0/31/23 Ana	alyzed: 10/31/23		
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0		85.1	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		8.00		91.4	70-130					
Matrix Spike (2344026-MS2)				Source:	E310296-	03	Prepared: 1	0/31/23 Ana	alyzed: 10/31/23		
Gasoline Range Organics (C6-C10)	42.6	20.0	50.0	ND	85.2	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130					
Matrix Spike Dup (2344026-MSD2)				Source:	E310296-	03	Prepared: 1	0/31/23 Ana	alyzed: 10/31/23		
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.5	70-130	6.06	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130					

QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/3/2023 4:40:22PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	•				11/3/2023 4:40:22PN
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344044-BLK1)							Prepared: 1	1/01/23 Ar	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			
LCS (2344044-BS1)							Prepared: 1	1/01/23 Ar	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			
Matrix Spike (2344044-MS1)				Source:	E310296-	01	Prepared: 1	1/01/23 Ar	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			
Matrix Spike Dup (2344044-MSD1)				Source:	E310296-	01	Prepared: 1	1/01/23 Ar	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132	0.813	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

QC Summary Data

WPX Energy - Carlsbad		Project Name:		ROSS DRAW U	JNIT #011				Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		1058-0007 Gilbert Moreno					11/3/2023 4:40:22PM
		Anions	by EPA	300.0/9056	1				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344079-BLK1)							Prepared:	11/02/23	Analyzed: 11/03/23
Chloride	ND	20.0							
LCS (2344079-BS1)							Prepared:	11/02/23	Analyzed: 11/03/23
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2344079-MS1)				Source:	E310296-0	2	Prepared:	11/02/23	Analyzed: 11/03/23
Chloride	289	20.0	250	37.9	101	80-120			
Matrix Spike Dup (2344079-MSD1)				Source:	E310296-0	2	Prepared:	11/02/23	Analyzed: 11/03/23
Chloride	284	20.0	250	37.9	98.5	80-120	1.73	20	

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/03/23 16:40

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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envirotech Inc.

Printed: 10/30/2023 12:47:19PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

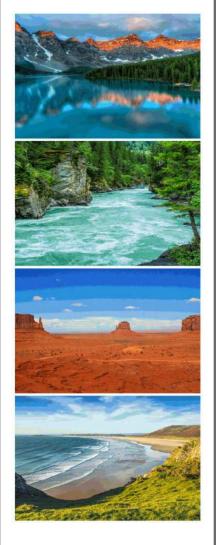
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

En	rgy - Carlsbad Date Received: 10/30/23 08:30	•	Work Order ID:	E310296
573	4018 Date Logged In: 10/30/23 11:25		Logged In By:	Caitlin Mars
-tea	m@ensolum.com Due Date: 11/03/23 17:00 (4 day TAT)			
ly	COC)			
le	ID match the COC?			
oer	of samples per sampling site location match the COC Yes			
dr	pped off by client or carrier? Yes Carrier: Co	<u>urier</u>		
co	nplete, i.e., signatures, dates/times, requested analyses? Yes			
An	received within holding time? Yes lysis, such as pH which should be conducted in the field, tute hold time, are not included in this disucssion.		<u>Comment</u>	s/Resolution
ou	nd Time (TAT)			
nd	cate standard TAT, or Expedited TAT? Yes			
	sler received? Yes			
ole	received in good condition? Yes			
e(s	received intact, i.e., not broken?			
//se	curity seals present? No			
us	ody/security seals intact?			
The	ceived on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes rmal preservation is not required, if samples are received w/i 15 f sampling record the temperature. Actual sample temperature: 4°C			
er				
	OC samples present?			
	es collected in VOA Vials?			
_	e less than 6-8 mm (pea sized or less)?			
	(TB) included for VOC analyses? NA			
	amples collected in the correct containers? Yes			
	volume/weight or number of sample containers collected?			
mı	le labels filled out with the minimum information:			
D?	Yes			
ie (Collected? Yes			
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<u>ati</u>	 -			
	r field labels indicate the samples were preserved?			
	orrectly preserved?			
ion	required and/or requested for dissolved metals?			
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_	have more than one phase, i.e., multiphase?			
he	COC specify which phase(s) is to be analyzed? NA			
bo	atory_			
	uired to get sent to a subcontract laboratory? No ct laboratory specified by the client and if so who? NA Subcontract Lab:	NI A		
	ct laboratory specified by the client and if so who? NA Subcontract Lab:	NA		
on				

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310308

Job Number: 01058-0007

Received: 11/1/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/7/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/7/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310308

Date Received: 11/1/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:15

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
FS41 4'	E310308-01A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS42 4'	E310308-02A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS43 4'	E310308-03A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
FS44 4'	F310308-04A Soil	10/30/23	11/01/23	Glass Jar. 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:15:42PM

FS41 4' E310308-01

		ECTOCOO OT				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Analyte	Result	Lillit	Dilut	ion Frepared	Allalyzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		99.9 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		99.9 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		108 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2344118
Chloride	3260	400	20	11/04/23	11/06/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:15:42PM

FS42 4' E310308-02

Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst		1 mary 200	Batch: 2344042
Benzene	ND	0.0250		1	11/01/23	11/02/23	Batch: 23 110 12
Ethylbenzene	ND	0.0250		1	11/01/23	11/02/23	
Toluene	ND	0.0250		1	11/01/23	11/02/23	
o-Xylene	ND	0.0250		1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500		1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250		1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		106 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		106 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0		1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/03/23	11/03/23	
Surrogate: n-Nonane		113 %	50-200		11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2344118
Chloride	2660	400	2	20	11/04/23	11/06/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:15:42PM

FS43 4' E310308-03

		E310308-03				
Anglista	Result	Reporting Limit	Diluti	ion Duomonod	Amaltygad	Notes
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		112 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2344118
Chloride	1610	400	20	11/04/23	11/06/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:15:42PM

FS44 4'

		E310308-04				
		Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		105 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		101 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: JL		Batch: 2344083
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/03/23	
Surrogate: n-Nonane		106 %	50-200	11/03/23	11/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2344118
Chloride	1630	400	20	11/04/23	11/06/23	



QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/7/2023 3:15:42PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344042-BLK1) Prepared: 11/01/23 Analyzed: 11/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.508 0.500 102 70-130 0.500 99.6 70-130 Surrogate: Toluene-d8 0.498 LCS (2344042-BS1) Prepared: 11/01/23 Analyzed: 11/02/23 2.43 0.0250 2.50 97.4 70-130 Benzene 2.42 2.50 70-130 96.8 Ethylbenzene 0.0250 2.35 0.0250 2.50 94.0 70-130 2.38 95.4 70-130 0.0250 2.50 o-Xylene 4.68 5.00 93.7 70-130 p,m-Xylene 0.0500 7.07 0.0250 7.50 94.2 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.509 0.500 102 70-130 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.502 70-130 Surrogate: Toluene-d8 0.495 0.500 Matrix Spike (2344042-MS1) Source: E310305-23 Prepared: 11/01/23 Analyzed: 11/02/23 2.40 0.0250 2.50 ND 48-131 45-135 Ethylbenzene 2.39 0.0250 2.50 ND 95.7 ND 92.3 48-130 Toluene 2.31 0.0250 2.50 2.36 0.0250 2.50 ND 94.3 43-135 o-Xylene 4.60 5.00 ND 91.9 43-135 p,m-Xylene 0.0500 Total Xylenes 6.95 0.0250 7.50 ND 92.7 43-135 Surrogate: Bromofluorobenzene 0.513 0.500 103 70-130 0.512 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 98.2 70-130 0.491 Surrogate: Toluene-d8 Matrix Spike Dup (2344042-MSD1) Source: E310305-23 Prepared: 11/01/23 Analyzed: 11/02/23 2.42 0.0250 2.50 ND 96.7 48-131 0.685 23 0.0250 2.50 ND 96.4 45-135 0.771 27 Ethylbenzene

ND

ND

ND

ND

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0500

0.0250

93.1

95.4

93.5

94.2

103

102

98.2

48-130

43-135

43-135

43-135

70-130

70-130

70-130

0.885

1.18

1.76

1.56

24

27

27

27



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.33

2.38

4.68

7.06

0.513

0.510

0.491

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported:

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		058-0007 ilbert Moreno				11	/7/2023 3:15:42PM
Carrouau ivivi, 00220		i roject ivianagei	. Gi	HOCH MIOICIO				- 11	7 77 2023 3.13.72FIVI
	Non	halogenated	Organics	by EPA 801	5D - G	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344042-BLK1)							Prepared: 1	1/01/23 Ana	lyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
LCS (2344042-BS2)							Prepared: 1	1/01/23 Ana	lyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike (2344042-MS2)				Source: F	2310305-	23	Prepared: 1	1/01/23 Ana	lyzed: 11/02/23
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			
Matrix Spike Dup (2344042-MSD2)				Source: F	2310305-	23	Prepared: 1	1/01/23 Ana	lyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	3.21	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			

0.500

0.500

0.500

100

99.9

70-130

70-130



QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:15:42PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/7/2023 3:15:42PM
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: JL							Analyst: JL		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344083-BLK1)							Prepared: 1	1/03/23 A	analyzed: 11/03/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			
LCS (2344083-BS1)							Prepared: 1	1/03/23 A	analyzed: 11/03/23
Diesel Range Organics (C10-C28)	247	25.0	250		99.0	38-132			
Surrogate: n-Nonane	53.7		50.0		107	50-200			
Matrix Spike (2344083-MS1)				Source:	E310308-	04	Prepared: 1	1/03/23 A	analyzed: 11/03/23
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	55.4		50.0		111	50-200			
Matrix Spike Dup (2344083-MSD1)				Source:	E310308-	04	Prepared: 1	1/03/23 A	analyzed: 11/03/23
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	0.736	20	
Surrogate: n-Nonane	54.7		50.0		109	50-200			



Matrix Spike Dup (2344118-MSD1)

Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr Carlsbad NM, 88220		Project Name: Project Number Project Manager	: 0	OSS DRAW U 1058-0007 Gilbert Moreno	JNIT #011				Reported: 11/7/2023 3:15:42PM
		Anions	by EPA	300.0/9056 <i>A</i>	1				Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2344118-BLK1)							Prepared: 1	1/04/23 Aı	nalyzed: 11/06/23
Chloride	ND	20.0							
LCS (2344118-BS1)							Prepared: 1	1/04/23 Aı	nalyzed: 11/06/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2344118-MS1)				Source:	E310306-2	26	Prepared: 1	1/04/23 Aı	nalyzed: 11/06/23
Chloride	363	200	250	593	NR	80-120			M2

250

200

Source: E310306-26

67.2

80-120

70.7

QC Summary Report Comment:

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



Prepared: 11/04/23 Analyzed: 11/06/23

M2, R3

Definitions and Notes

	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:15

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable. M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable. R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria. R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria. Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported RPD Relative Percent Difference DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

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•		of 5
		2

											010	58	-0a	57	AC.					
	VPX Energ				Bill To			M.		ab U	se On	ly	AND HE			TA	\T		EPA P	rogram
	ROSS DRA				Attention: Jim Raley		Lab	WO	1	-	Job I	Vumb	er 1	1D	2D	3D	Stand	200 000 000 000 000 000 000 000 000 000	CWA	SDWA
-	Manager:				Address: 5315 Buena Vista Dr.		E:	310	200	28			0024	<u> </u>			5 day	TAT		
200	: 13000 W	The World Street, No. of Street, and	L. C. Prince, Co. J. U. Str. and J. L.		City, State, Zip: Carlsbad, NM, 8	88220				_	Analy	sis and	Metho	d		, ,		3/8		RCRA
	te, Zip_O		79765		Phone: 575-885-7502			_									- 6			
	332-541-7				Email: jim.raley@dvn.com			0									-	1 00	State	TVI
Email: L	evon-tear	n@etech	ienv.com		WBS/WO: MM-155117.AL.RNN			NO/OR		1		_		_			N	и со	UT AZ	IX
Collecte	d by: Edyt	e Konan			Incident ID: mNHMP1412241998, nAB nAB1728553778, nAB1728551205, nAPP22		-	D/DRC	8021	3260	010	300.0		ž		×	١,			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		верос		GDOC			Remarks	
10:00	10.30.23	s	1		FS41	1	4'							х						
10:10	10.30.23	S	1		FS42	2	4'							х						
10:20	10.30.23	S	1		FS43	3	4'							х						
10:30	10.30.23	s	1		FS44	4	4'							х						
4														-	F					
							_	_					+				1			
					1013112023															
Addition	nal Instruc	tions:																		
				ticity of this sample.	I am aware that tampering with or intentionally relegal action. Sampled by: GM	mislabelling the sam	ple lo	cation,			97								they are san	
Relinquish -	ed by: (Sign	ature)	Date		Received by: (Signature)	Date 10312	3	Time	45	5	Rece	ived c	on ice:		ab U	se On	ly			
Mice		Court		31-23 15	Received by: (Signature) No. 10 Miles (Signature)	Date 10.31.	23	Time	30		T1			T2			<u>T3</u>			
	ed by: (Sign	ature)	Date	31.23 74	Received by: (Signature)	Date	23	Time	30)	AVG	Temp	°c_L	1						
				Aqueous, O - Other		Containe	-								lass, v	v - VO	A			
					unless other arrangements are made. Haza													for the	analysis of	the abov
					boratory with this COC. The liability of the lal															

envirotech Inc.

Printed: 11/1/2023 3:57:30PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Chain of C 1. Does the 2. Does the 3. Were san 4. Was the 5. Were all Sample Tu 6. Did the C Sample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, w	devon-team@ensolum.com Custody (COC) e sample ID match the COC? enumber of samples per sampling site location match match the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the conducted in the	ted analyses?	10/31/23 11/07/23 Yes Yes Yes Yes Yes	15:02 17:00 (4 day TAT) Carrier: <u>C</u>	<u>ourier</u>	Logged In By:	Lacey Rodgers	
Chain of C 1. Does the 2. Does the 3. Were san 4. Was the 5. Were all Sample Tu 6. Did the C Sample Co 7. Was a san 8. If yes, w 9. Was the 10. Were co 11. If yes, w	e sample ID match the COC? e number of samples per sampling site location match the coc complete, i.e., signatures, dates/times, reques samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e., 15 minute hold time, are not included in this disucssion trn Around Time (TAT) COC indicate standard TAT, or Expedited TAT? poler umple cooler received?	ch the COC ted analyses?	Yes Yes Yes Yes		<u>ourier</u>			
1. Does the 2. Does the 3. Were sai 4. Was the 5. Were all Sample Tu 6. Did the Sample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, y	e sample ID match the COC? e number of samples per sampling site location matching and the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the condition of the	ted analyses?	Yes Yes Yes	Carrier: <u>C</u>	<u>ourier</u>			
2. Does the 3. Were sai 4. Was the 5. Were all Sample Tu 6. Did the Cample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, y	e number of samples per sampling site location matemples dropped off by client or carrier? COC complete, i.e., signatures, dates/times, reques samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion transpared (TAT) COC indicate standard TAT, or Expedited TAT? poler umple cooler received?	ted analyses?	Yes Yes Yes	Carrier: <u>C</u>	<u>ourier</u>			
3. Were san 4. Was the 5. Were all Sample Tu 6. Did the G Sample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, y	mples dropped off by client or carrier? COC complete, i.e., signatures, dates/times, reques samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssicurn Around Time (TAT) COC indicate standard TAT, or Expedited TAT? poler umple cooler received?	ted analyses?	Yes Yes	Carrier: <u>C</u>	<u>ourier</u>			
4. Was the 5. Were all Sample Tu 6. Did the G Sample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, y	COC complete, i.e., signatures, dates/times, reques samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e., 15 minute hold time, are not included in this disucssicurn Around Time (TAT) COC indicate standard TAT, or Expedited TAT? poler umple cooler received?	the field,	Yes	Carrier: <u>C</u>	<u>ourier</u>			
Sample Tu 6. Did the C Sample Cc 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes,	samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion are Around Time (TAT) COC indicate standard TAT, or Expedited TAT? poler umple cooler received?	the field,						
Sample Tu 6. Did the G Sample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, y	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion are Around Time (TAT) COC indicate standard TAT, or Expedited TAT? cooler cooler received?		Yes					
6. Did the 0 Sample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, y	COC indicate standard TAT, or Expedited TAT? ooler umple cooler received?					<u>Comment</u>	s/Resolution	
6. Did the 6 Sample Co 7. Was a sa 8. If yes, w 9. Was the 10. Were co 11. If yes, y	COC indicate standard TAT, or Expedited TAT? ooler umple cooler received?			Γ				
7. Was a sa 8. If yes, w 9. Was the 10. Were coll. If yes, y	imple cooler received?		Yes					
7. Was a sa 8. If yes, w 9. Was the 10. Were coll. If yes, w	imple cooler received?							
9. Was the 10. Were con 11. If yes,	ras cooler received in good condition?		Yes					
10. Were co			Yes					
11. If yes,	sample(s) received intact, i.e., not broken?		Yes					
11. If yes,	ustody/security seals present?		No					
• •	were custody/security seals intact?		NA					
	sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling isible ice, record the temperature. Actual sample	e received w/i 15	Yes					
Sample Co		•						
	ueous VOC samples present?		No					
-	OC samples collected in VOA Vials?		NA					
	nead space less than 6-8 mm (pea sized or less)?		NA					
	rip blank (TB) included for VOC analyses?		NA					
	n-VOC samples collected in the correct containers?	•	Yes					
	propriate volume/weight or number of sample contain		Yes					
Field Labe	•		165					
	ield sample labels filled out with the minimum info	rmation:						
	mple ID?		Yes					
Da	te/Time Collected?		Yes	L				
Co	llectors name?		Yes					
	<u>eservation</u>							
	ne COC or field labels indicate the samples were pr	eserved?	No					
	mple(s) correctly preserved?		NA					
24. Is lab f	ilteration required and/or requested for dissolved m	etals?	No					
Multiphas	e Sample Matrix							
26. Does th	ne sample have more than one phase, i.e., multiphas	se?	No					
27. If yes,	does the COC specify which phase(s) is to be analy	zed?	NA					
Subcontra	ct Laboratory							
	mples required to get sent to a subcontract laborator	v?	No					
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	: NA			
Client Ins								
CHEIR IIIs	<u> </u>							

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310073

Job Number: 01058-0007

Received: 10/12/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 1/3/24

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 1/3/24

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310073

Date Received: 10/12/2023 8:25:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/12/2023 8:25:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/03/24 11:06

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-2'	E310073-01A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW02 0-2'	E310073-02A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW03 0-2'	E310073-03A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW04 0-4'	E310073-04A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW05 0-4'	E310073-05A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW06 0-4'	E310073-06A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW07 0-2'	E310073-07A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW08 0-4'	E310073-08A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW09 0-4'	E310073-09A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.
SW10 0-4'	E310073-10A	Soil	10/06/23	10/12/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW01 0-2' E310073-01

	E3100/3-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
ma/ka	ma/ka	Analy	•	<u> </u>	Batch: 2341068
		1		10/12/23	Batch: 2541000
		1			
		1			
		1			
ND	0.0250	I	10/12/23	10/12/23	
ND	0.0500	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
	95.7 %	70-130	10/12/23	10/12/23	
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2341068
ND	20.0	1	10/12/23	10/12/23	
	91.3 %	70-130	10/12/23	10/12/23	
mg/kg	mg/kg	Analy	yst: KM		Batch: 2341066
ND	25.0	1	10/12/23	10/13/23	
ND	50.0	1	10/12/23	10/13/23	
	76.5 %	50-200	10/12/23	10/13/23	
/1	/1	Analy	ret. D A		Batch: 2341076
mg/kg	mg/kg	Allai	yst. DA		Batcii. 2341070
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 0.0250 MD 25.0 MD 25.0 ND 50.0 76.5 %	Reporting Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 MD 0.0250 1 95.7 % 70-130 70-130 mg/kg mg/kg Analy ND 20.0 1 Mg/kg mg/kg Analy ND 25.0 1 ND 50.0 1 76.5 % 50-200	Reporting Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/12/23 ND 0.0250 1 10/12/23 ND 0.0250 1 10/12/23 ND 0.0500 1 10/12/23 ND 0.0250 1 10/12/23 ND 0.0250 1 10/12/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/12/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/12/23 ND 50.0 1 10/12/23 76.5 % 50-200 10/12/23	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0500 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 MD 0.0250 1 10/12/23 10/12/23 Mg/kg mg/kg Analyst: RKS ND 20.0 1 10/12/23 10/12/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/12/23 10/13/23 ND 50.0 1 10/12/23 10/13/23 ND 50.0 1 10/12/23 10/13/23



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW02 0-2'

		E310073-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg Analyst: RKS		Batch: 2341068		
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.0 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		69.8 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2341076
Chloride	ND	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW03 0-2'

		E310073-03				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	g Analyst: RKS		Batch: 2341068	
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		95.6 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.5 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		74.2 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2341076
Chloride	ND	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW04 0-4'

		E310073-04					
Reporting							
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068	
Benzene	ND	0.0250	1	10/12/23	10/12/23		
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23		
Toluene	ND	0.0250	1	10/12/23	10/12/23		
o-Xylene	ND	0.0250	1	10/12/23	10/12/23		
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23		
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23		
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	10/12/23	10/12/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	70-130	10/12/23	10/12/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2341066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23		
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23		
Surrogate: n-Nonane		69.5 %	50-200	10/12/23	10/13/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	nlyst: BA		Batch: 2341076	
Chloride	20.1	20.0	1	10/12/23	10/13/23		



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW05 0-4'

E310073-05						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		79.1 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2341076
Chloride	23.6	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW06 0-4' E310073-06

	E310073-00				
Result	Reporting Limit		n Prepared	Analyzed	Notes
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
ND	0.0500	1	10/12/23	10/12/23	
ND	0.0250	1	10/12/23	10/12/23	
	96.5 %	70-130	10/12/23	10/12/23	
mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
ND	20.0	1	10/12/23	10/12/23	
	89.4 %	70-130	10/12/23	10/12/23	
mg/kg	mg/kg	Ana	alyst: KM		Batch: 2341066
ND	25.0	1	10/12/23	10/13/23	
ND	50.0	1	10/12/23	10/13/23	
	75.9 %	50-200	10/12/23	10/13/23	
mg/kg	mg/kg	Ana	alyst: BA		Batch: 2341076
20.5	20.0	1	10/12/23	10/13/23	
	mg/kg ND ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 MD 0.0250 MD 20.0250 89.4 % mg/kg MB/kg mg/kg ND 25.0 ND 50.0 75.9 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg And ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 0.0250 1 MD 20.0250 1 Mg/kg mg/kg And ND 20.0 1 89.4 % 70-130 mg/kg mg/kg And ND 25.0 1 ND 50.0 1 75.9 % 50-200 mg/kg mg/kg And	Reporting Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/12/23 ND 0.0250 1 10/12/23 ND 0.0250 1 10/12/23 ND 0.0500 1 10/12/23 ND 0.0250 1 10/12/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/12/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/12/23 ND 50.0 1 10/12/23 mg/kg mg/kg Analyst: BA	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0500 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 ND 0.0250 1 10/12/23 10/12/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/12/23 10/12/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/12/23 10/13/23 ND 50.0 1 10/12/23



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW07 0-2' E310073-07

		E3100/3-0/				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Tillalyte	Result	Liiiit	Dilution	Trepared	Zinaryzed	rvotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		75.9 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2341076
Chloride	22.7	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW08 0-4'

E310073-08						
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.9 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.3 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		77.9 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2341076
Chloride	28.3	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW09 0-4' E310073-09

		E3100/3-09				
	D. k	Reporting		D 1		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2341068
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2341066
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		79.3 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2341076
Chloride	30.0	20.0	1	10/12/23	10/13/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

SW10 0-4' E310073-10

		E3100/3-10				
	D 1	Reporting	D.1 .:	n .		N
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2341068
Benzene	ND	0.0250	1	10/12/23	10/12/23	
Ethylbenzene	ND	0.0250	1	10/12/23	10/12/23	
Toluene	ND	0.0250	1	10/12/23	10/12/23	
o-Xylene	ND	0.0250	1	10/12/23	10/12/23	
p,m-Xylene	ND	0.0500	1	10/12/23	10/12/23	
Total Xylenes	ND	0.0250	1	10/12/23	10/12/23	
Surrogate: 4-Bromochlorobenzene-PID		96.7 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2341068	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/12/23	10/12/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.5 %	70-130	10/12/23	10/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341066	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/12/23	10/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/12/23	10/13/23	
Surrogate: n-Nonane		76.3 %	50-200	10/12/23	10/13/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2341076
Chloride	29.7	20.0	1	10/12/23	10/13/23	



QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 1/3/2024 11:06:06AM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2341068-BLK1) Prepared: 10/12/23 Analyzed: 10/12/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.61 8.00 95.1 70-130 LCS (2341068-BS1) Prepared: 10/12/23 Analyzed: 10/12/23 4.67 93.4 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.61 0.0250 5.00 92.2 70-130 4.66 0.0250 5.00 93.2 70-130 Toluene 93.0 o-Xylene 4.65 0.0250 5.00 70-130 9.43 10.0 94.3 70-130 0.0500 p.m-Xvlene 93.9 70-130 14.1 15.0 Total Xylenes 0.0250 8.00 94.7 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.58 Matrix Spike (2341068-MS1) Source: E310074-02 Prepared: 10/12/23 Analyzed: 10/12/23 4.42 0.0250 5.00 ND 54-133 Benzene ND 87.4 61-133 Ethylbenzene 4.37 0.0250 5.00 Toluene 4.43 0.0250 5.00 ND 88.6 61-130 4.41 ND 88.3 63-131 5.00 0.0250 o-Xylene p,m-Xylene 8.94 0.0500 10.0 ND 89.4 63-131 13.4 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.57 8.00 Matrix Spike Dup (2341068-MSD1) Source: E310074-02 Prepared: 10/12/23 Analyzed: 10/12/23 4.46 0.0250 5.00 ND 89.1 54-133 0.784 20 61-133 0.970 4.41 0.0250 5.00 ND 88.3 20 Ethylbenzene Toluene 4 46 0.0250 5.00 ND 89.2 61-130 0.636 20 4.46 5.00 ND 89.2 63-131 1.09 20 o-Xylene 0.0250 0.933 9.03 10.0 ND 90.3 63-131 20 p,m-Xylene 0.0500 Total Xylenes 13.5 0.0250 15.0 ND 89.9 63-131 0.983 20

8.00

95.6

70-130



Surrogate: 4-Bromochlorobenzene-PID

7.64

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

Carlsbad NM, 88220		Project Manager	r: Gi	lbert Moreno					1/3/2024 11:06:06AM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2341068-BLK1)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			
LCS (2341068-BS2)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Gasoline Range Organics (C6-C10)	43.7	20.0	50.0		87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		8.00		94.7	70-130			
Matrix Spike (2341068-MS2)				Source:	E310074-0	02	Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0	ND	90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			
Matrix Spike Dup (2341068-MSD2)				Source:	E310074-0	02	Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Gasoline Range Organics (C6-C10)	44.5	20.0	50.0	ND	88.9	70-130	1.49	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	1/3/2024 11:06:06AM

Carlsbad NM, 88220		Project Manage	r: Gı	lbert Moreno					1/3/2024 11:06:06AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341066-BLK1)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	42.0		50.0		84.0	50-200			
LCS (2341066-BS1)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	209	25.0	250		83.5	38-132			
Surrogate: n-Nonane	40.2		50.0		80.4	50-200			
Matrix Spike (2341066-MS1)				Source:	E310070-	04	Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	211	25.0	250	ND	84.4	38-132			
Surrogate: n-Nonane	37.7		50.0		75.5	50-200			
Matrix Spike Dup (2341066-MSD1)				Source:	E310070-	04	Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Diesel Range Organics (C10-C28)	206	25.0	250	ND	82.3	38-132	2.54	20	
Surrogate: n-Nonane	36.3		50.0		72.5	50-200			



WPX Energy - Carlsbad		Project Name:	R	OSS DRAW	UNIT #011				Reported:
5315 Buena Vista Dr		Project Number:	0	1058-0007					
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					1/3/2024 11:06:06AM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341076-BLK1)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Chloride	ND	20.0							
LCS (2341076-BS1)							Prepared: 1	0/12/23 A	nalyzed: 10/12/23
Chloride	246	20.0	250		98.4	90-110			
Matrix Spike (2341076-MS1)				Source:	E310065-2	1	Prepared: 1	0/12/23 A	analyzed: 10/12/23
Chloride	249	20.0	250	ND	99.4	80-120			
Matrix Spike Dup (2341076-MSD1)				Source:	E310065-2	1	Prepared: 1	0/12/23 A	analyzed: 10/12/23
Chloride	252	20.0	250	ND	101	80-120	1.37	20	

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	01/03/24 11:06

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

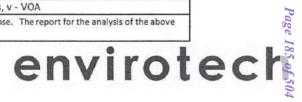
Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Client: V	VPX Energ	y Permia	in, LLC.		Bill To	Bill To			La	b Us	Jse Only				TAT			EPA Progr		rogram
	Brushy Ga				Attention: Jim Raley			WO#			Job						3D Standard		CWA	SDWA
Project N	Manager:	Gilbert N	loreno		Address: 5315 Buena Vista Dr.	Address: 5315 Buena Vista Dr.			573	3	DIC	X58	.000	7			5 d	ay TAT		
Address	: 13000 W	County	Rd 100		City, State, Zip: Carlsbad, NM, 88	3220					Analysis and Metho								RCRA	
City, Sta	te, Zip_Oc	lessa,TX,	79765		Phone: 575-885-7502									T				Media		
Phone: 832-541-7719 Email: jim.raley@dvn.com						197	1	015										-	State	
Email: D	evon-tear	n@etech	env.com		WO: 21153712		1	by 8										NM CO	UT AZ	TX
					Incident ID: NHMP1412241998,		1	GRO/DRO/ORO by 8015								1				
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Collecte	d by: Edyt	e Konan			nAB1728551205 nAPP22007287		-	NO/OR	802	3260	010	300				×				
Time	Date		No. of			Lab	Depth(ft.)	GRC	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		5	3	2	1 1		•	
Sampled	Sampled	Matrix	Containers	Sample ID		Number	Dept	ТРН	BTE)	VOC	Meta	Chlo		20058		GDOC			Remarks	
10:00	10.6.23	S	1		SW01	1	0-2')	(
10:10	10.6.23	S	1		SW02	2	0-2'							,	(
10:20	10.6.23	S	1		SW03	3	0-2							,	(1	
10:30	10.6.23	S	1		SW04	4	0-4'							,	(
10:40	10.6.23	S	1		SW05	5	0-4'							,	(
10:50	10.6.23	S	1		SW06	10	0-4'							,	(T	П			
11:00	10.6.23	S	1		SW07	7	0-2'							,	(
11:10	10.6.23	S	1		SW08	8	0-4							,	(T				
11:20	10.6.23	S	1		SW09	9	0-4'							١,	(\vdash		=		
11:30	10.6.23	S	1		SW10	10	0-4'							١,	(T				
Addition	nal Instruc	tions:																		
					am aware that tampering with or intentionally mi	slabelling the samp	ple loca	tion,	27/10		0.8853063							on ice the day	they are sam	pled or
		ALTERNATION OF TAXABLE		may be grounds for leg		In :	-	I.v.			-	- poch	and the state of the	6				J. Com sales	Julia days.	
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n she	ed by: (Signa	my	Date 10	·11.23 72	30 Couth Man	Date (0-12-	23	Time	2	_		Ten	np°C	4						
Sample Mat	trix: S - Soil, S	d - Solid, Se -	Sludge, A -	Aqueous, O - Other		Container	TVDE	:g- p	lass.					nber	glass.	v - VC	DA			
Note: Sam	ples are disc	arded 30 d	lavs after re	esults are reported in	inless other arrangements are made. Hazard									1000000000	Marine Committee		111111111111111111111111111111111111111	t for the ar	alysis of th	e above
					ratory with this COC. The liability of the labo										- aparts				,	





Project Informat
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Pross T

Chain of Custody

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City, Stat			79765	Marin Control	Ph	one: 575-885-7502	2			10									Most new Market		an ensure
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample II				Lab Number	Depth(ft.)	TPH G	BTEX	VOCby	Metals 6010	Chloride 300.0		BGDOC		SDOC		Remarks	
10:00	10.6.23	S	1			SW01		1	0-2'							x			Corr	ected	projec
10:10	10.6.23	S	1			SW02		2	0-2'					THE RESERVE		x					match
10:20	10.6.23	S	1			SW03		3	0-2				-		F	x					neon
10:30	10.6.23	S	1			SW04		4	0-4'							х					ontainer
10:40	10.6.23	5	1			SW05		5	0-4'							х				23	
10:50	10.6.23	S	1			SW06		10	0-4'							x					
11:00	10.6.23	S	1			SW07		7	0-2'							х					
11:10	10.6.23	S	1			SW08		8	0-4							х					
11:20	10.6.23	S	1			SW09		9	0-4'							х				E Kent	
11:30	10.6.23	5	1			SW10		10	0-4'							х					
Addition	al Instruc	tions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM Sampled by: GM Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																					
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e. Thereport for the analysis of the above

envirotech 9504

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Printed: 10/12/2023 12:15:29PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

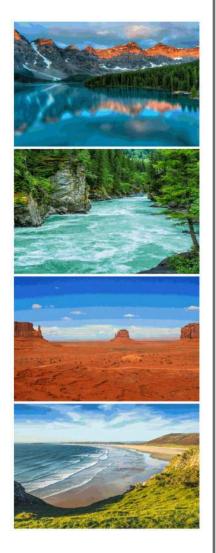
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/12/23	08:25	Work Order ID:	E310073
Phone:	(539) 573-4018	Date Logged In:	10/11/23	15:30	Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	10/17/23	17:00 (3 day TAT)		
~	a . 1 (200)					
	Custody (COC)					
	te sample ID match the COC?	oh the COC	No			
	te number of samples per sampling site location matching amples dropped off by client or carrier?	in the COC	Yes			
	e COC complete, i.e., signatures, dates/times, request	od amalyaaa?	Yes Yes	Carrier: <u>C</u>	<u>Courier</u>	
	Il samples received within holding time?	ed analyses?	Yes			
5. Wele al	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		168		<u>Commen</u>	nts/Resolution
Sample T	urn Around Time (TAT)				D 1	11.1
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Project name on sampl	
Sample C					match the project name	
	ample cooler received?		Yes		asked to change the pro	oject name on the
8. If yes, v	was cooler received in good condition?		Yes		COC.	
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes			
Sample C		• —	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containe	ers collected?	Yes			
Field Lab	<u>oel</u>					
20. Were	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes	•		
	ollectors name?		Yes			
	reservation: the COC or field labels indicate the samples were pro	searsad?	No			
	umple(s) correctly preserved?	esciveu:				
	filteration required and/or requested for dissolved managed	etals?	NA No			
	se Sample Matrix		110			
	se Sample Watrix the sample have more than one phase, i.e., multiphas	o?	NT-			
	does the COC specify which phase(s) is to be analyst		No			
		zeur	NA			
	act Laboratory	_				
	amples required to get sent to a subcontract laborator		No			
29. Was a	subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab	: NA	
Client In	struction					
						0

Date

Signature of client authorizing changes to the COC or sample disposition.

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





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Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310125

Job Number: 01058-0007

Received: 10/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/23/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 10/23/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310125

Date Received: 10/19/2023 8:15:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/19/2023 8:15:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Domonto do
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/23 11:48

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW11 0-4'	E310125-01A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
SW12 0-4'	E310125-02A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
SW13 0-4'	E310125-03A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.
SW14 0-4'	E310125-04A Soil	10/16/23	10/19/23	Glass Jar, 2 oz.



ſ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW11 0-4' E310125-01

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
ma/ka	ma/ka	Analy	•	<u> </u>	Batch: 2342062
				10/19/23	Batch. 2542002
		1			
		1			
		1			
ND	0.0250	1			
ND	0.0500	1	10/19/23	10/19/23	
ND	0.0250	1	10/19/23	10/19/23	
	95.1 %	70-130	10/19/23	10/19/23	
mg/kg	mg/kg	Analy	st: RKS		Batch: 2342062
ND	20.0	1	10/19/23	10/19/23	
	89.6 %	70-130	10/19/23	10/19/23	
mg/kg	mg/kg	Analy	st: KM		Batch: 2342064
ND	25.0	1	10/19/23	10/20/23	
ND	50.0	1	10/19/23	10/20/23	
	88.7 %	50-200	10/19/23	10/20/23	
mg/kg	88.7 % mg/kg	50-200 Analy		10/20/23	Batch: 2342075
	mg/kg ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 20.0250 89.6 % mg/kg mg/kg mg/kg ND 25.0	Result Limit Dilution mg/kg mg/kg Analy ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 MD 0.0250 1 MD 70-130 1 Mg/kg mg/kg Analy Mg/kg mg/kg Analy ND 25.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0500 1 10/19/23 ND 0.0250 1 10/19/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 10/19/23 ND 0.0250 1 10/19/23 10/19/23 ND 0.0250 1 10/19/23 10/19/23 ND 0.0500 1 10/19/23 10/19/23 ND 0.0250 1 10/19/23 10/19/23 ND 0.0250 1 10/19/23 10/19/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 10/19/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/19/23 10/20/23



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW12 0-4' E310125-02

		2010120 02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342062
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Toluene	ND	0.0250	1	10/19/23	10/19/23	
o-Xylene	ND	0.0250	1	10/19/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		95.0 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342062
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		88.1 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2342075
Chloride	86.2	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW13 0-4' E310125-03

		E310123-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Marye	resuit	- Emili	Ditation	Trepared	7 Hary Zea	rotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342062
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Toluene	ND	0.0250	1	10/19/23	10/19/23	
o-Xylene	ND	0.0250	1	10/19/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342062
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.8 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		86.5 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2342075
Chloride	104	20.0	1	10/19/23	10/19/23	



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

SW14 0-4'

E310125-04						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342062
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Toluene	ND	0.0250	1	10/19/23	10/19/23	
o-Xylene	ND	0.0250	1	10/19/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		95.3 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342062
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.7 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342064
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		85.7 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	llyst: IY		Batch: 2342075
Chloride	90.3	20.0	1	10/19/23	10/19/23	



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 10/23/2023 11:48:27AM **Volatile Organics by EPA 8021B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2342062-BLK1) Prepared: 10/19/23 Analyzed: 10/19/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: 4-Bromochlorobenzene-PID 7.52 8.00 94.0 70-130 LCS (2342062-BS1) Prepared: 10/19/23 Analyzed: 10/19/23 4.45 89.1 70-130 5.00 Benzene 0.0250 Ethylbenzene 4.54 0.0250 5.00 90.7 70-130 4.54 0.0250 5.00 90.8 70-130 Toluene 91.5 o-Xylene 4.58 0.0250 5.00 70-130 9.28 10.0 92.8 70-130 0.0500 p.m-Xvlene 92.4 70-130 13.9 15.0 Total Xylenes 0.0250 8.00 93.9 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.51 Matrix Spike (2342062-MS1) Source: E310122-02 Prepared: 10/19/23 Analyzed: 10/19/23 4.74 0.0250 5.00 ND 94.8 54-133 Benzene ND 61-133 Ethylbenzene 4.84 0.0250 5.00 96.7 Toluene 4.84 0.0250 5.00 ND 96.9 61-130 ND 97.3 63-131 4.86 5.00 0.0250 o-Xylene p,m-Xylene 9.86 0.0500 10.0 ND 98.6 63-131 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.50 8.00 Matrix Spike Dup (2342062-MSD1) Source: E310122-02 Prepared: 10/19/23 Analyzed: 10/19/23 4.66 0.0250 5.00 ND 93.2 54-133 1.71

4.76

4.76

4.77

9.70

14.5

7.45

0.0250

0.0250

0.0250

0.0500

0.0250

5.00

5.00

5.00

10.0

15.0

8.00

95.2

95.1

95.4

97.0

96.5

93.2

ND

ND

ND

ND

ND

61-133

61-130

63-131

63-131

63-131

70-130

1.59

1.83

1.95

1.65

1.75

20

20

20

20

20



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				10/2	3/2023 11:48:27AM
	Non	Analyst: RKS							
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2342062-BLK1)							Prepared: 1	0/19/23 Anal	yzed: 10/19/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.4	70-130			
LCS (2342062-BS2)							Prepared: 1	0/19/23 Anal	yzed: 10/19/23
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			
Matrix Spike (2342062-MS2)				Source:	E310122-	02	Prepared: 1	0/19/23 Anal	yzed: 10/19/23
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			
Matrix Spike Dup (2342062-MSD2)				Source:	E310122-	02	Prepared: 1	0/19/23 Anal	yzed: 10/19/23
Gasoline Range Organics (C6-C10)	46.0	20.0	50.0	ND	92.0	70-130	8.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/2023 11:48:27AM

Carisbad NM, 88220		Project Manage	r: Gi	ibert Moreno					10/23/2023 11:48:2/A
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342064-BLK1)							Prepared: 1	0/19/23	Analyzed: 10/19/23
tiesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.9		50.0		91.7	50-200			
CS (2342064-BS1)							Prepared: 1	0/19/23	Analyzed: 10/19/23
riesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
urrogate: n-Nonane	46.5		50.0		93.0	50-200			
Matrix Spike (2342064-MS1)				Source:	E310122-0	04	Prepared: 1	0/19/23	Analyzed: 10/19/23
tiesel Range Organics (C10-C28)	260	25.0	250	ND	104	38-132			
urrogate: n-Nonane	50.4		50.0		101	50-200			
Matrix Spike Dup (2342064-MSD1)				Source:	E310122-	04	Prepared: 1	0/19/23	Analyzed: 10/19/23
tiesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	2.44	20	
urrogate: n-Nonane	49.3		50.0		98.6	50-200			

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	(ROSS DRAW U					Reported:	
Carlsbad NM, 88220		Project Manager:	•	Gilbert Moreno					10/23/2023 11:48:27	AM
		Anions	by EPA	300.0/9056A	\				Analyst: IY	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2342075-BLK1)							Prepared:	10/19/23	Analyzed: 10/19/23	
Chloride	ND	20.0								
LCS (2342075-BS1)							Prepared:	10/19/23	Analyzed: 10/19/23	
Chloride	256	20.0	250		103	90-110				
Matrix Spike (2342075-MS1)				Source:	E310123-0)5	Prepared:	10/19/23	Analyzed: 10/19/23	
Chloride	1930	20.0	250	1770	64.8	80-120			M4	
Matrix Spike Dup (2342075-MSD1)				Source:	E310123-0)5	Prepared:	10/19/23	Analyzed: 10/19/23	
Chloride	1900	20.0	250	1770	52.3	80-120	1.64	20	M4	

QC Summary Report Comment:

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



Definitions and Notes

ſ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
١	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	10/23/23 11:48

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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	formatio	-				Chain of	Cust	Joury												Page _
	PX Energ				Bill To				L	ab Us	se Or	ly				T/	AT		EPA P	rogran
	ROSS DRA				Attention: Jim Raley		La	b WO	#		Job	Num			2D	3D	Sta	andard	CWA	SDW
	lanager:				Address: 5315 Buena Vista D	75-72	E	310	12:	5	010	158	-0007				5.0	day TAT		
	13000 W				City, State, Zip: Carlsbad, NN	1, 88220		and the second	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				nd Metho							RCF
	e, Zip_Od		79765		Phone: 575-885-7502															
	32-541-7				Email: jim.raley@dvn.com			yd C											State	
mail: De	evon-tean	n@etech	env.com		WO: 21153712			/OR							1			NM CO	UT AZ	TX
ollected	by: Edyt	e Konan			Incident ID: mNHMP1412241998, r nAB1728553778, nAB1728551205, nAP		1	O/DRO	y 8021	8260	0109	Chloride 300.0		NN		Ϋ́		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Numbe	Denth(ft.)	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by 8260	Metals 6010	Chlorid		BGDOC		GDOC			Remarks	
12:40	10.16.23	S	1		SW11	1	0-	-4'						х						
12:50	10.16.23	S	1		SW12	2	0-	-4'						х						
13:00	10.16.23	S	1		SW13	3	0-	-4'						х						
13:10	10.16.23	S	1		SW14	4	0-	4'						х						
									_	_	_	_								
					10118123															
_																				
ddition	al Instruc	tions:														35	AC	,		
				icity of this sample	e. I am aware that tampering with or intentional riegal action. Sampled by: GM	lly mislabelling the sa	mple	location	ř.		200							d on ice the da nan 6°C on sub		ALC: NO.
- High	d by: (Signa		Date	18123 17	10 Received by (Signature)	Date Date	82	3 Time	210)	Rece	eived	on ice:		ab Us		nly			
mu	d by: Signa OW d by: Signa	Laur	Date	1823 Time	Received by: (Signature) And Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market	0.18	.23		300		<u>T1</u>			<u>T2</u>				<u>T3</u>		
/	0	neso	10.0000	18.23 2	400 Cuth M	ac 10.19	.23	3 8	:15	-	AVG	Tem	p°C_	4						



ent expense. The report for the analysis of the above

Printed: 10/19/2023 12:05:17PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

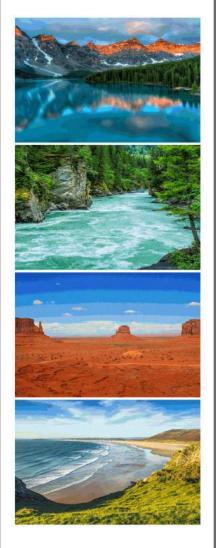
Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/19/23	08:15		Work Order ID:	E310125
Phone:	(539) 573-4018	Date Logged In:	10/18/23	16:48		Logged In By:	Caitlin Mars
Email:		Due Date:		17:00 (4 day TAT)			
Chain o	of Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mate	h the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was t	he COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes	_			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in time, 15 minute hold time, are not included in this disucssion.		Yes			Comment	ts/Resolution
Sample	Turn Around Time (TAT)	1.					
	ne COC indicate standard TAT, or Expedited TAT?		Yes				
	•		103				
Sample 7. Was a	a sample cooler received?		Yes				
8. If yes	, was cooler received in good condition?		Yes				
9. Was t	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
	es, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling o visible ice, record the temperature. Actual sample to	received w/i 15	Yes				
		emperature. 4	<u>_</u>				
	Container aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	e appropriate volume/weight or number of sample contained	ers collected?	Yes				
Field La	*	ar conceica.	105				
	e field sample labels filled out with the minimum infor	mation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes				
	Collectors name?		Yes				
	<u>Preservation</u>						
	s the COC or field labels indicate the samples were pre	served?	No				
	sample(s) correctly preserved?	. 1.0	NA				
	b filteration required and/or requested for dissolved me	etais?	No				
	nase Sample Matrix						
	s the sample have more than one phase, i.e., multiphase		No				
27. If ye	es, does the COC specify which phase(s) is to be analyz	zed?	NA				
Subcont	tract Laboratory_						
	samples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA	Subcontract Lab	o: NA		
Client 1	<u>Instruction</u>						

Date

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310293

Job Number: 01058-0007

Received: 10/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/6/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/6/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310293

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
ı	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW15 0-4'	E310293-01A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.
SW16 0-4'	E310293-02A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/6/2023 10:43:03AM

SW15 0-4' E310293-01

		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg mg/kg		A	Analyst: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		109 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/02/23	
Surrogate: n-Nonane		85.7 %	50-200	11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2344059
Chloride	39.3	20.0	1	11/02/23	11/02/23	



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/6/2023 10:43:03AM

SW16 0-4' E310293-02

		E510275-02				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Allarytt	Result	Limit	Dilut	ion i repareu	Allalyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344030
Benzene	ND	0.0250	1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250	1	10/31/23	11/02/23	
Toluene	ND	0.0250	1	10/31/23	11/02/23	
o-Xylene	ND	0.0250	1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500	1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	g mg/kg		Analyst: RKS	Batch: 2344030	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130	10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.4 %	70-130	10/31/23	11/02/23	
Surrogate: Toluene-d8		108 %	70-130	10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2344070
Diesel Range Organics (C10-C28)	ND	25.0	1	11/02/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/02/23	11/02/23	
Surrogate: n-Nonane	·	90.5 %	50-200	11/02/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2344059
Chloride	ND	20.0	1	11/02/23	11/02/23	



ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/6/2023 10:43:03AM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344030-BLK1) Prepared: 10/31/23 Analyzed: 11/02/23 ND 0.0250 ND 0.0250 Ethylbenzene Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.580 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.461 0.500 92.2 70-130 0.500 109 70-130 Surrogate: Toluene-d8 0.547 LCS (2344030-BS1) Prepared: 10/31/23 Analyzed: 11/02/23 2.70 0.0250 2.50 108 70-130 Benzene 2.50 106 70-130 2.64 Ethylbenzene 0.0250 70-130 2.61 0.0250 2.50 105 70-130 o-Xylene 2.58 0.0250 2.50 103 5.20 5.00 104 70-130 p,m-Xylene 0.0500 7.77 0.0250 7.50 104 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.573 0.500 115 70-130 0.500 96.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.481 70-130 Surrogate: Toluene-d8 0.550 0.500 Matrix Spike (2344030-MS1) Source: E310292-01 Prepared: 10/31/23 Analyzed: 11/02/23 48-131 2.77 0.0250 2.50 ND 111 ND 45-135 Ethylbenzene 2.75 0.0250 2.50 110 ND 108 48-130 Toluene 2.69 0.0250 2.50

2.68

5.36

8.04

0.595

0.499

0.557

2.68

2.68

2.64

2.61

5.23

7.84

0.589

0.481

0.550

0.0250

0.0500

0.0250

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

5.00

7.50

0.500

0.500

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

ND

ND

ND

ND

107

107

107

119

99.8

107

106

104

105

105

118

96.1

Source: E310292-01

43-135

43-135

43-135

70-130

70-130

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

3.04

2.56

1.74

2.59

2.51

2.54

Prepared: 10/31/23 Analyzed: 11/02/23

23

27

24

27

27

27

o-Xylene

p,m-Xylene

Total Xylenes

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2344030-MSD1)

Surrogate: Toluene-d8

QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:43:03AM

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		058-0007 lbert Moreno					11/6/2023 10:43:03AM
	Nor	nhalogenated (Organics l	by EPA 801	5D - GF	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS2)							Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2344030-MS2)				Source: I	E 310292- 0)1	Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD2)				Source: I	E 310292- 0)1	Prepared: 1	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20	
Surrogate: Bromofluorobenzene	0.576		0.500		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			

0.500

0.556

111

70-130



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:43:03AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno				1	1/6/2023 10:43:03AN
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344070-BLK1)							Prepared: 1	1/02/23 An	alyzed: 11/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.5		50.0		90.9	50-200			
LCS (2344070-BS1)							Prepared: 1	1/02/23 An	alyzed: 11/02/23
Diesel Range Organics (C10-C28)	209	25.0	250		83.6	38-132			
urrogate: n-Nonane	40.0		50.0		80.0	50-200			
Matrix Spike (2344070-MS1)				Source:	E310300-	08	Prepared: 1	1/02/23 An	alyzed: 11/02/23
Diesel Range Organics (C10-C28)	225	25.0	250	ND	89.9	38-132			
urrogate: n-Nonane	41.7		50.0		83.4	50-200			
Matrix Spike Dup (2344070-MSD1)				Source:	E310300-	08	Prepared: 1	1/02/23 An	alyzed: 11/02/23
Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.6	38-132	2.55	20	
'urrogate: n-Nonane	41.8		50.0		83.5	50-200			

WPX Energy - Carlsbad		Project Name:	Project Name: ROSS DRAW U						Reported:
5315 Buena Vista Dr		Project Number:		1058-0007					
Carlsbad NM, 88220		Project Manager	: G	ilbert Moreno					11/6/2023 10:43:03AM
		Anions	by EPA	300.0/9056 <i>£</i>	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344059-BLK1)							Prepared: 1	11/02/23 A	nalyzed: 11/02/23
Chloride	ND	20.0							
LCS (2344059-BS1)							Prepared:	11/02/23 A	nalyzed: 11/02/23
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2344059-MS1)				Source:	E311014-0)4	Prepared:	11/02/23 A	nalyzed: 11/02/23
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2344059-MSD1)				Source:	E311014-0)4	Prepared:	11/02/23 A	nalyzed: 11/02/23
Chloride	263	20.0	250	ND	105	80-120	3.32	20	

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:43

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Gent: W							Bill To		Lab L					Jse Only				TAT			EPA P	rogram		
Periods DRAW UNIT #011						Attention: Jim Raley			Lab WO# Job Number 53/0293 0/058:008						10 20 30 Standard			CWA	SDWA					
						Address	: 5315 Buena Vista Dr.		TE:	310	ટુવઃ	3	101	05	Z- 003	រា			5	day TAT				
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City, Stat			79765			Phone:	575-885-7502		T		Т	T	Ţ			Т	Т	Т	Т	1				
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Compared to the client expense. The report for the analysis of the above the report.

Printed: 10/30/2023 11:00:28AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

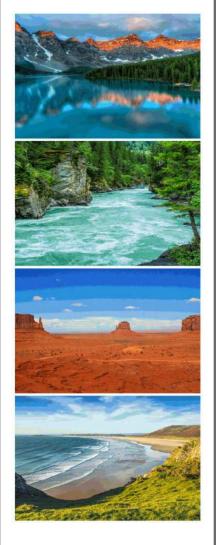
Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/30/23	08:30		Work Order ID:	E310293
Phone:	(539) 573-4018	Date Logged In:	10/30/23	10:57		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	11/03/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	he sample ID match the COC?		Yes				
	he number of samples per sampling site location mate	ch the COC					
	amples dropped off by client or carrier?	on the coc	Yes Yes	C : C			
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: <u>C</u>	<u>ourier</u>		
	all samples received within holding time?	ica anaryses:	Yes				
J. Wele a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssio		103			Comment	s/Resolution
Sample 7	<u> Furn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was th	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	ne sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
	•	temperature. 1	<u> </u>				
	<u>Container</u> queous VOC samples present?		No				
	/OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal		ers conected?	168				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	illiation.	Yes				
	Date/Time Collected?		Yes	l			
C	Collectors name?		Yes				
Sample I	Preservation_						
21. Does	the COC or field labels indicate the samples were pro-	eserved?	No				
22. Are s	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	ase Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	e?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subconti	ract Laboratory						
	amples required to get sent to a subcontract laborator	v?	No				
	a subcontract laboratory specified by the client and if	•	NA	Subcontract Lab	· NA		
		50 WHO!	1,12	Subcontract Eab	. 1111		
Client II	<u>nstruction</u>						

Date

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310292

Job Number: 01058-0007

Received: 10/30/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/6/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/6/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310292

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Γ	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	D (1
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW17 0-4'	E310292-01A	Soil	10/27/23	10/30/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:41:13AM

SW17 0-4' E310292-01

		E0102/2 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dii	ution	Frepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg		Analyst:	RKS		Batch: 2344030
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Toluene	ND	0.0250		1	10/31/23	11/02/23	
o-Xylene	ND	0.0250		1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	ng/kg mg/kg		Analyst:	: RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0		1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/01/23	11/02/23	
Surrogate: n-Nonane		87.4 %	50-200		11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2344059
Chloride	52.0	20.0		1	11/02/23	11/02/23	



QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/6/2023 10:41:13AM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344030-BLK1) Prepared: 10/31/23 Analyzed: 11/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.580 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.461 0.500 92.2 70-130 0.500 109 70-130 Surrogate: Toluene-d8 0.547 LCS (2344030-BS1) Prepared: 10/31/23 Analyzed: 11/02/23 2.70 0.0250 2.50 108 70-130 Benzene 2.50 106 70-130 2.64 Ethylbenzene 0.0250 2.61 0.0250 2.50 105 70-130 70-130 2.58 0.0250 2.50 103 o-Xylene 5.20 5.00 104 70-130 p,m-Xylene 0.0500 7.77 0.0250 7.50 104 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.573 0.500 115 70-130 0.500 96.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.481 70-130 Surrogate: Toluene-d8 0.550 0.500 Matrix Spike (2344030-MS1) Source: E310292-01 Prepared: 10/31/23 Analyzed: 11/02/23 48-131 2.77 0.0250 2.50 ND 111 45-135 Ethylbenzene 2.75 0.0250 2.50 ND 110 ND 48-130 Toluene 2.69 0.0250 2.50 108 2.68 0.0250 2.50 ND 107 43-135 o-Xylene 5.00 ND 107 43-135 p,m-Xylene 5.36 0.0500 Total Xylenes 8.04 0.0250 7.50 ND 107 43-135 Surrogate: Bromofluorobenzene 0.595 0.500 119 70-130 0.500 99.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.499 0.500 70-130 0.557 Surrogate: Toluene-d8 Matrix Spike Dup (2344030-MSD1) Source: E310292-01 Prepared: 10/31/23 Analyzed: 11/02/23



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.68

2.68

2.64

2.61

5.23

7.84

0.589

0.481

0.550

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

ND

107

106

104

105

105

118

96.1

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

3.04

2.56

1.74

2.59

2.51

2.54

23

27

24

27

27

27

Surrogate: Toluene-d8

QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr 01058-0007 Project Number:

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		1058-0007 filbert Moreno					11/6/2023 10:41:13A
	Nor	nhalogenated O	rganics	by EPA 801:	5D - GF	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 10	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
urrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
urrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
urrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS2)							Prepared: 10	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
urrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
urrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
urrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2344030-MS2)				Source: E	310292-0	1	Prepared: 10	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
urrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
urrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
urrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD2)				Source: E	310292-0	1	Prepared: 10	0/31/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20	
urrogate: Bromofluorobenzene	0.576		0.500		115	70-130			
urrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			

0.500

0.556

111

70-130



QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:41:13AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/6/2023 10:41:13AN
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344044-BLK1)							Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			
LCS (2344044-BS1)							Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			
Matrix Spike (2344044-MS1)				Source:	E310296-0	01	Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			
Matrix Spike Dup (2344044-MSD1)				Source:	E310296-	01	Prepared: 1	1/01/23 A	nalyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132	0.813	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			



Chloride

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:	J						Reported:			
Carlsbad NM, 88220	Project Manager: Gilber							11/6/2023 10:41:13AM				
		Analyst: BA										
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2344059-BLK1)							Prepared:	11/02/23	Analyzed: 11/02/23			
Chloride	ND	20.0										
LCS (2344059-BS1)							Prepared:	11/02/23	Analyzed: 11/02/23			
Chloride	246	20.0	250		98.6	90-110						
Matrix Spike (2344059-MS1)				Source:	E311014-0)4	Prepared:	11/02/23	Analyzed: 11/02/23			
Chloride	272	20.0	250	ND	109	80-120						
Matrix Spike Dup (2344059-MSD1)				Source:	E311014-0)4	Prepared:	11/02/23	Analyzed: 11/02/23			

250

20.0

105

80-120

3.32

20

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Note Sam	ples are disc	arded 30 d	lays after	results are re	ported unless ot	her arrangements are made. Hazardou														port for the	anahele of	the shows

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samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Printed: 10/30/2023 10:52:20AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/30/23	08:30		Work Order ID:	E310292
Phone:	(539) 573-4018	Date Logged In:	10/30/23	10:46		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	11/03/23	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC					
	amples dropped off by client or carrier?	on the coc	Yes Yes	G : 6			
	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes	Carrier: C	<u>ourier</u>		
	Il samples received within holding time?	ied anaryses.	Yes				
3. Were a	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		103			Comments	s/Resolution
Sample T	<u> [urn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
	, ,	temperature. 1	<u> </u>				
Sample C	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat	· · · · · · · · · · · · · · · · · · ·	ers conected:	168				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	mation.	Yes				
	pate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample P	Preservation_						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	e?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
	act Laboratory						
	amples required to get sent to a subcontract laborator	v9	No				
	subcontract laboratory specified by the client and if	-	NA	Subcontract Lab	NI A		
		so wilo:	INA	Subcontract Lab); NA		
Client In	<u>istruction</u>						

Report to:
Gilbert Moreno



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

WPX Energy - Carlsbad

Project Name: ROSS DRAW UNIT #011

Work Order: E310309

Job Number: 01058-0007

Received: 11/1/2023

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 11/7/23

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

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

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

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/7/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310309

Date Received: 11/1/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/1/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Donoutoda
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:10

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SW18 0-4'	E310309-01A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW19 0-4'	E310309-02A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW20 0-4'	E310309-03A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.
SW21 0-4	E310309-04A Soil	10/30/23	11/01/23	Glass Jar, 2 oz.



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:10:23PM

SW18 0-4' E310309-01

		E310307-01					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg		Analyst:	RKS		Batch: 2344042
Benzene	ND	0.0250	1	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS				Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		104 %	70-130		11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130		11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	11/03/23	11/04/23	
Surrogate: n-Nonane		103 %	50-200		11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2344118
Chloride	27.1	20.0	1	1	11/04/23	11/06/23	

WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:10:23PM

SW19 0-4' E310309-02

	Reporting					
Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	RKS		Batch: 2344042
ND	0.0250		1	11/01/23	11/02/23	
ND	0.0250		1	11/01/23	11/02/23	
ND	0.0250		1	11/01/23	11/02/23	
ND	0.0250		1	11/01/23	11/02/23	
ND	0.0500]	1	11/01/23	11/02/23	
ND	0.0250	1	1	11/01/23	11/02/23	
	104 %	70-130		11/01/23	11/02/23	
	101 %	70-130		11/01/23	11/02/23	
	99.8 %	70-130		11/01/23	11/02/23	
mg/kg	mg/kg		Analyst: RKS			Batch: 2344042
ND	20.0		1	11/01/23	11/02/23	
	104 %	70-130		11/01/23	11/02/23	
	101 %	70-130		11/01/23	11/02/23	
	99.8 %	70-130		11/01/23	11/02/23	
mg/kg	mg/kg		Analyst:	KM		Batch: 2344103
ND	25.0		1	11/03/23	11/04/23	_
ND	50.0		1	11/03/23	11/04/23	
	109 %	50-200		11/03/23	11/04/23	
mg/kg	mg/kg		Analyst:	BA		Batch: 2344118
26.8	20.0		1	11/04/23	11/06/23	
	ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IO4 % 101 % 99.8 % mg/kg ND 20.0 104 % 101 % 99.8 % mg/kg Mg/kg mg/kg ND 25.0 ND 50.0 109 % mg/kg mg/kg mg/kg	ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 I04 % 70-130 99.8 % 70-130 mg/kg mg/kg ND 20.0 I04 % 70-130 101 % 70-130 101 % 70-130 101 % 70-130 101 % 70-130 101 % 70-130 101 % 70-130 101 % 70-130 101 % 50-200 mg/kg mg/kg ND 25.0 ND 50.0 I09 % 50-200 mg/kg mg/kg	ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 101% 70-130 70-130 99.8% 70-130 1 ND 20.0 1 101% 70-130 70-130 99.8% 70-130 70-130 mg/kg mg/kg Analyst: ND 25.0 1 ND 50.0 1 109% 50-200 mg/kg Mg/kg Analyst:	ND 0.0250 1 11/01/23 ND 0.0250 1 11/01/23 ND 0.0250 1 11/01/23 ND 0.0250 1 11/01/23 ND 0.0500 1 11/01/23 ND 0.0250 1 11/01/23 ND 0.0250 1 11/01/23 101 % 70-130 11/01/23 99.8 % 70-130 11/01/23 Mg/kg Mg/kg Analyst: RKS ND 20.0 1 11/01/23 104 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01/23 101 % 70-130 11/01	ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0500 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ### 70-130 11/01/23 11/02/23 ### 99.8 % 70-130 11/01/23 11/02/23 ### MB 20.0 1 11/01/23 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 11/02/23 ### 1



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:10:23PM

SW20 0-4' E310309-03

	12310307-03				
	Reporting				
Result	Limit	Diluti	ion Prepared	Analyzed	Notes
mg/kg	mg/kg	A	Analyst: RKS		Batch: 2344042
ND	0.0250	1	11/01/23	11/02/23	
ND	0.0250	1	11/01/23	11/02/23	
ND	0.0250	1	11/01/23	11/02/23	
ND	0.0250	1	11/01/23	11/02/23	
ND	0.0500	1	11/01/23	11/02/23	
ND	0.0250	1	11/01/23	11/02/23	
	104 %	70-130	11/01/23	11/02/23	
	101 %	70-130	11/01/23	11/02/23	
	100 %	70-130	11/01/23	11/02/23	
mg/kg	mg/kg		Analyst: RKS	Batch: 2344042	
ND	20.0	1	11/01/23	11/02/23	
	104 %	70-130	11/01/23	11/02/23	
	101 %	70-130	11/01/23	11/02/23	
	100 %	70-130	11/01/23	11/02/23	
mg/kg	mg/kg	A	Analyst: KM		Batch: 2344103
ND	25.0	1	11/03/23	11/04/23	_
ND	50.0	1	11/03/23	11/04/23	
	94.6 %	50-200	11/03/23	11/04/23	
mg/kg	mg/kg	A	Analyst: BA		Batch: 2344118
	mg/kg ND ND ND ND ND ND ND ND ND N	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 IO1 % 101 % 100 % mg/kg ND 20.0 104 % 100 % IO0 % mg/kg Mg/kg mg/kg ND 25.0 ND 50.0	Reporting Result Limit Dilution mg/kg mg/kg A ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 ND 0.0250 1 101 % 70-130 101 % 100 % 70-130 100 % ND 20.0 1 104 % 70-130 101 % 101 % 70-130 100 % 100 % 70-130 100 % ND 25.0 1 ND 50.0 1	Reporting Result Limit Dilution Prepared mg/kg Manalyst: RKS ND 0.0250 1 11/01/23 ND 0.0250 1 11/01/23 ND 0.0250 1 11/01/23 ND 0.0500 1 11/01/23 ND 0.0250 1 11/01/23 ND 0.0250 1 11/01/23 104 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 101 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % 70-130 11/01/23 100 % <td< td=""><td>Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0500 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 104 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 104 % 70-130 11/01/23 11/02/23 104 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23</td></td<>	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0500 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 ND 0.0250 1 11/01/23 11/02/23 104 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 104 % 70-130 11/01/23 11/02/23 104 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23 100 % 70-130 11/01/23 11/02/23



WPX Energy - CarlsbadProject Name:ROSS DRAW UNIT #0115315 Buena Vista DrProject Number:01058-0007Reported:Carlsbad NM, 88220Project Manager:Gilbert Moreno11/7/2023 3:10:23PM

SW21 0-4 E310309-04

		ECTOCO7 01				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: RKS		Batch: 2344042
Benzene	ND	0.0250	1	11/01/23	11/02/23	
Ethylbenzene	ND	0.0250	1	11/01/23	11/02/23	
Toluene	ND	0.0250	1	11/01/23	11/02/23	
o-Xylene	ND	0.0250	1	11/01/23	11/02/23	
p,m-Xylene	ND	0.0500	1	11/01/23	11/02/23	
Total Xylenes	ND	0.0250	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	analyst: RKS		Batch: 2344042
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/01/23	11/02/23	
Surrogate: Bromofluorobenzene		103 %	70-130	11/01/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	11/01/23	11/02/23	
Surrogate: Toluene-d8		100 %	70-130	11/01/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	analyst: KM		Batch: 2344103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/03/23	11/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/03/23	11/04/23	
Surrogate: n-Nonane		90.7 %	50-200	11/03/23	11/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2344118
Chloride	ND	400	20	11/04/23	11/07/23	_

QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/7/2023 3:10:23PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344042-BLK1) Prepared: 11/01/23 Analyzed: 11/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.508 0.500 102 70-130 0.500 99.6 70-130 Surrogate: Toluene-d8 0.498 LCS (2344042-BS1) Prepared: 11/01/23 Analyzed: 11/02/23 2.43 0.0250 2.50 97.4 70-130 Benzene 2.42 2.50 70-130 96.8 Ethylbenzene 0.0250 2.35 0.0250 2.50 94.0 70-130 2.38 95.4 70-130 0.0250 2.50 o-Xylene 4.68 5.00 93.7 70-130 p,m-Xylene 0.0500 7.07 0.0250 7.50 94.2 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.509 0.500 102 70-130 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.502 70-130 Surrogate: Toluene-d8 0.495 0.500 Matrix Spike (2344042-MS1) Source: E310305-23 Prepared: 11/01/23 Analyzed: 11/02/23 2.40 0.0250 2.50 ND 48-131 45-135 Ethylbenzene 2.39 0.0250 2.50 ND 95.7 ND 92.3 48-130 Toluene 2.31 0.0250 2.50 2.36 0.0250 2.50 ND 94.3 43-135 o-Xylene 4.60 5.00 ND 91.9 43-135 p,m-Xylene 0.0500 Total Xylenes 6.95 0.0250 7.50 ND 92.7 43-135 Surrogate: Bromofluorobenzene 0.513 0.500 103 70-130 0.512 0.500 102 70-130 Surrogate: 1,2-Dichloroethane-d4 0.500 98.2 70-130 0.491 Surrogate: Toluene-d8 Matrix Spike Dup (2344042-MSD1) Source: E310305-23 Prepared: 11/01/23 Analyzed: 11/02/23 2.42 0.0250 2.50 ND 96.7 48-131 0.685 23

0.0250

0.0250

0.0250

0.0500

0.0250

2.33

2.38

4.68

7.06

0.513

0.510

0.491

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

ND

ND

ND

ND

ND

96.4

93.1

95.4

93.5

94.2

103

102

98.2

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

0.771

0.885

1.18

1.76

1.56

27

24

27

27

27



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: na Vieta Di

5315 Buena Vista Dr		Project Number:	01	058-0007					
Carlsbad NM, 88220		Project Manager:	Gi	lbert Moreno					11/7/2023 3:10:23PM
	Non	halogenated C	Organics	by EPA 801:	5D - GF	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344042-BLK1)							Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
LCS (2344042-BS2)							Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike (2344042-MS2)				Source: E	310305-2	3	Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.574		0.500		115	70-130			
Matrix Spike Dup (2344042-MSD2)				Source: E	310305-2	3	Prepared: 1	1/01/23	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	3.21	20	
Surrogate: Bromofluorobenzene	0.529		0.500		106	70-130			

0.500

0.500

0.502

100

99.9

70-130

70-130



QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	•
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/7/2023 3:10:23PM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno					11/7/2023 3:10:23PM		
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: KM											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2344103-BLK1)							Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	49.2		50.0		98.3	50-200					
LCS (2344103-BS1)							Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23		
Diesel Range Organics (C10-C28)	241	25.0	250		96.4	38-132					
Surrogate: n-Nonane	48.1		50.0		96.2	50-200					
Matrix Spike (2344103-MS1)				Source:	E311018-0	07	Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23		
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132					
Surrogate: n-Nonane	54.6		50.0		109	50-200					
Matrix Spike Dup (2344103-MSD1)				Source:	E311018-0)7	Prepared: 1	1/03/23 Aı	nalyzed: 11/04/23		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	0.421	20			
Surrogate: n-Nonane	53.9		50.0		108	50-200					

Matrix Spike Dup (2344118-MSD1)

Chloride

761

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number		ROSS DRAW U 1058-0007	UNIT #011				Reported:
Carlsbad NM, 88220		Project Manage	r: (Gilbert Moreno					11/7/2023 3:10:23PM
		Anions	by EPA	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344118-BLK1)							Prepared: 1	1/04/23 Ar	nalyzed: 11/06/23
Chloride	ND	20.0							
LCS (2344118-BS1)							Prepared: 1	1/04/23 Ar	nalyzed: 11/06/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2344118-MS1)				Source:	E310306-	26	Prepared: 1	1/04/23 Ar	nalyzed: 11/06/23
Chloride	363	200	250	593	NR	80-120			M2

250

200

Source: E310306-26

67.2

80-120

70.7

593

QC Summary Report Comment:

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



Prepared: 11/04/23 Analyzed: 11/06/23

20

M2, R3

Definitions and Notes

	WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
-	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/07/23 15:10

Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.

Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Did Not Ignite

DNI

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Phone: 832-541-7719

Collected by: Edyte Konan

Date

Sampled

10.30.23

10.30.23

10.30.23

10.30.23

Additional Instructions:

Sampled

10:40

10:50

11:00

11:10

Client: WPX Energy Permian, LLC.

Project Manager: Gilbert Moreno

Address: 13000 W County Rd 100

City, State, Zip_Odessa, TX, 79765

Email: Devon-team@etechenv.com

Matrix

S

S

5

5

No. of

Containers

1

1

1

1

Sample ID

Project: ROSS DRAW UNIT #011

Lab WO#

Depth(ft.)

0-4

0-4

0-4

0-4

Lab

Number

2

3

BTEX by 8021 VOC by 8260

Bill To

Attention: Jim Raley

Phone: 575-885-7502

SW18

SW19

SW20

SW21

Email: jim.raley@dvn.com

WBS/WO: MM-155117.AL,RNM

1013112023

Address: 5315 Buena Vista Dr.

City, State, Zip: Carlsbad, NM, 88220

Incident ID: mNHMP1412241998, nAB1712951426,

nAB1728553778, nAB1728551205, nAPP2200728755

EPA Program

SDWA

RCRA

CWA

State

Remarks

NM CO UT AZ TX

TAT

5 day TAT

1D 2D 3D Standard

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Received by OCD: 6/5/2024 11:43:43 AM

(field sampler), attest to the validity and ate or time of collection is considered fra			are that tampering with or intentionally misla on. Sampled by: GM	belling the sample location,	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.
elinquished by: (Signature)	Date 10/3/1/2023	Time	Received by: (Signature) Wichille (Luz)	Date 1031-23 Time 1045	Lab Use Only Received on ice: (Y) N
elinquished by: (Signature) Wichill Courte	Date 10-3123	Time 15:45	Received by: (Signature)	Date Time 40.31.23 1738	T1 T2 T3
elinquished by: (Signature)	lo.31.23	7400	Received by: (Signature)	Date Time 11 123 9:30	AVG Temp °C ~
imple Matrix: S - Soil, Sd - Solid, Sg - Slud	ge, A - Aqueous, O -	Other	0	Container Type: g - glass, p	- poly/plastic, ag - amber glass, v - VOA
			other arrangements are made. Hazardo with this COC. The liability of the labora		nt or disposed of at the client expense. The report for the analysis of the abortor on the report.

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01058-0007

Analysis and Method

Σ

BGDOC

X

X

X

X

Job Number

Chloride 300.0

Lab Use Only

F310309 8-1108-049

envirotech

Printed: 11/1/2023 4:00:08PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	11/01/23	08:30		Work Order ID:	E310309
Phone:	(539) 573-4018	Date Logged In:	10/31/23	15:20		Logged In By:	Lacey Rodgers
Email:	devon-team@ensolum.com	Due Date:	11/07/23	17:00 (4 day TAT)			
Chain o	f Custody (COC)						
	the sample ID match the COC?		Yes				
2. Does	the number of samples per sampling site location mate	h the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was th	ne COC complete, i.e., signatures, dates/times, requeste	ed analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in t i.e, 15 minute hold time, are not included in this disucssion	•	Yes			<u>Comment</u>	ts/Resolution
Sample	Turn Around Time (TAT)						
	ne COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	<u>Cooler</u>						
7. Was a	sample cooler received?		Yes				
8. If yes	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i. Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample to	received w/i 15	Yes				
		emperature. 4	<u>c</u>				
	Container aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?		Yes				
	appropriate volume/weight or number of sample container	rs collected?	Yes				
Field La	** *	is conceica.	105				
	e field sample labels filled out with the minimum infor	nation:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes	ı			
	Collectors name?		Yes				
	Preservation	40					
	s the COC or field labels indicate the samples were pre	served?	No				
	sample(s) correctly preserved?	. 1.0	NA				
	o filteration required and/or requested for dissolved me	tais?	No				
	ase Sample Matrix						
	s the sample have more than one phase, i.e., multiphase		No				
27. If ye	s, does the COC specify which phase(s) is to be analyz	ed?	NA				
Subcont	ract Laboratory						
	samples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA	Subcontract Lab	: NA		
Client l	<u>Instruction</u>						
1							

Date Reported: 11/6/23

Gilbert Moreno 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: ROSS DRAW UNIT #011

Workorder: E310292

Date Received: 10/30/2023 8:30:00AM

Gilbert Moreno,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/30/2023 8:30:00AM, under the Project Name: ROSS DRAW UNIT #011.

The analytical test results summarized in this report with the Project Name: ROSS DRAW UNIT #011 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Alexa Michaels

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

_				
Γ	WPX Energy - Carlsbad	Project Name: ROSS DRAW UNIT #		Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
l	Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

Client Sample ID	Lab Sample ID Matri	x Sampled	Received	Container
SW17 0-4'	E310292-01A Soil	10/27/23	10/30/23	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:41:13AM

SW17 0-4' E310292-01

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2344030
Benzene	ND	0.0250		1	10/31/23	11/02/23	
Ethylbenzene	ND	0.0250		1	10/31/23	11/02/23	
Toluene	ND	0.0250		1	10/31/23	11/02/23	
o-Xylene	ND	0.0250		1	10/31/23	11/02/23	
p,m-Xylene	ND	0.0500		1	10/31/23	11/02/23	
Total Xylenes	ND	0.0250		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2344030
Gasoline Range Organics (C6-C10)	ND	20.0		1	10/31/23	11/02/23	
Surrogate: Bromofluorobenzene		117 %	70-130		10/31/23	11/02/23	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		10/31/23	11/02/23	
Surrogate: Toluene-d8		111 %	70-130		10/31/23	11/02/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2344044
Diesel Range Organics (C10-C28)	ND	25.0		1	11/01/23	11/02/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/01/23	11/02/23	
Surrogate: n-Nonane		87.4 %	50-200		11/01/23	11/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2344059
Chloride	52.0	20.0	<u> </u>	1	11/02/23	11/02/23	



QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported: Project Number: 5315 Buena Vista Dr 01058-0007 Carlsbad NM, 88220 Project Manager: Gilbert Moreno 11/6/2023 10:41:13AM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2344030-BLK1) Prepared: 10/31/23 Analyzed: 11/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.580 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.461 0.500 92.2 70-130 0.500 109 70-130 Surrogate: Toluene-d8 0.547 LCS (2344030-BS1) Prepared: 10/31/23 Analyzed: 11/02/23 2.70 0.0250 2.50 108 70-130 Benzene 2.50 106 70-130 2.64 Ethylbenzene 0.0250 2.61 0.0250 2.50 105 70-130 70-130 2.58 0.0250 2.50 103 o-Xylene 5.20 5.00 104 70-130 p,m-Xylene 0.0500 7.77 0.0250 7.50 104 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.573 0.500 115 70-130 0.500 96.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.481 70-130 Surrogate: Toluene-d8 0.550 0.500 Matrix Spike (2344030-MS1) Source: E310292-01 Prepared: 10/31/23 Analyzed: 11/02/23 48-131 2.77 0.0250 2.50 ND 111 45-135 Ethylbenzene 2.75 0.0250 2.50 ND 110 ND 48-130 Toluene 2.69 0.0250 2.50 108 2.68 0.0250 2.50 ND 107 43-135 o-Xylene 5.00 ND 107 43-135 p,m-Xylene 5.36 0.0500 Total Xylenes 8.04 0.0250 7.50 ND 107 43-135 Surrogate: Bromofluorobenzene 0.595 0.500 119 70-130 0.500 99.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.499

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

0.557

2.68

2.68

2.64

2.61

5.23

7.84

0.589

0.481

0.550

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

3.04

2.56

1.74

2.59

2.51

2.54

Source: E310292-01

107

106

104

105

105

118

96.1

ND

ND

ND

ND

ND

ND



Prepared: 10/31/23 Analyzed: 11/02/23

23

27

24

27

27

27

Surrogate: Toluene-d8

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Matrix Spike Dup (2344030-MSD1)

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

ROSS DRAW UNIT #011 WPX Energy - Carlsbad Project Name: Reported:

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		058-0007 lbert Moreno					11/6/2023 10:41:13AN
	Non	halogenated (Organics l	by EPA 801	5D - GI	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344030-BLK1)							Prepared: 1	0/31/23 <i>A</i>	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.461		0.500		92.2	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
LCS (2344030-BS2)							Prepared: 1	0/31/23 A	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.2	20.0	50.0		114	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.554		0.500		111	70-130			
Matrix Spike (2344030-MS2)				Source: I	E310292-0	01	Prepared: 1	0/31/23 A	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	55.2	20.0	50.0	ND	110	70-130			
Surrogate: Bromofluorobenzene	0.587		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.557		0.500		111	70-130			
Matrix Spike Dup (2344030-MSD2)				Source: I	E310292-0	01	Prepared: 1	0/31/23 A	Analyzed: 11/02/23
Gasoline Range Organics (C6-C10)	57.1	20.0	50.0	ND	114	70-130	3.37	20	
Surrogate: Bromofluorobenzene	0.576		0.500		115	70-130			

0.500

0.500

0.496

70-130

70-130

99.2

111



QC Summary Data

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	-
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/6/2023 10:41:13AM

Carlsbad NM, 88220		Project Manage	r: Gi	lbert Moreno	•			1	1/6/2023 10:41:13AN
	Nonha	logenated Or	ganics by	EPA 80151	D - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2344044-BLK1)							Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			
LCS (2344044-BS1)							Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250		90.6	38-132			
Surrogate: n-Nonane	49.5		50.0		98.9	50-200			
Matrix Spike (2344044-MS1)				Source:	E310296-	01	Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.7	38-132			
Surrogate: n-Nonane	46.1		50.0		92.3	50-200			
Matrix Spike Dup (2344044-MSD1)				Source:	E310296-	01	Prepared: 1	1/01/23 An	alyzed: 11/01/23
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.9	38-132	0.813	20	
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

QC Summary Data

WPX Energy - Carlsbad 5315 Buena Vista Dr		Project Name: Project Number:		ROSS DRAW U 1058-0007	JNIT #011			Reported:		
Carlsbad NM, 88220		Project Number: Project Manager	Gilbert Moreno				11/6/2023 10:41:13A	М		
		Anions	by EPA	300.0/9056 <i>E</i>	1				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPE Limi		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2344059-BLK1)							Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	ND	20.0								
LCS (2344059-BS1)							Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	246	20.0	250		98.6	90-110				
Matrix Spike (2344059-MS1)				Source:	E311014-0	4	Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	272	20.0	250	ND	109	80-120				
Matrix Spike Dup (2344059-MSD1)				Source:	E311014-0	4	Prepared:	11/02/23	Analyzed: 11/02/23	
Chloride	263	20.0	250	ND	105	80-120	3.32	20		

QC Summary Report Comment:

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



Definitions and Notes

WPX Energy - Carlsbad	Project Name:	ROSS DRAW UNIT #011	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Gilbert Moreno	11/06/23 10:41

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Quent: WPX Energy Permian, LLC.						Bill To				U	eb V	ise Only				TAT						rogram
Repject: ROSS DRAW UNIT #011						Attention: Jim Raley			WO)						10	20	3D Standar		andard	CWA	SDWA
Evject Manager: Gilbert Moreno						Address: 5315 Buena Vista Dr.			E310292			01028.000							5	day TAT		
dress: 13000 W County Rd 100						City, State, Zip: Cartsbad, NM, 88220						Analy:	thoc	1						RCRA		
ty, State, Zip_Odessa,TX, 79765						Phone: 575-885-7502			Т		T	ΓΊ								1		
one: 832-541-7719						Email: Jim.raley@dvn.com			2	ĺ	1	lΙ					l				State	
Mail: Devon-team@etechenv.com						WBS/WO: MM-155117.AL.RNM			矣	1		[1	ı			l	!	NM CO	UT AZ	TX
02				•	<u>-</u>	Incident ID: mNHMP1412741998, nA81712	1	ន្ត	۱ ــ	٦		2	1	- 1	ž			Ī				
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envirotech 504

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Page 253 of 504

Printed: 10/30/2023 10:52:20AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	WPX Energy - Carlsbad	Date Received:	10/30/23 0	8:30		Work Order ID:	E310292
Phone:	(539) 573-4018	Date Logged In:	10/30/23 1	0:46		Logged In By:	Caitlin Mars
Email:	devon-team@ensolum.com	Due Date:	11/03/23 1	7:00 (4 day TAT)			
1. Does th 2. Does th	Custody (COC) e sample ID match the COC? e number of samples per sampling site location ma imples dropped off by client or carrier?	tch the COC	Yes Yes Yes	Carrier: <u>C</u>	<u>Courier</u>		
4. Was the	COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
	I samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi urn Around Time (TAT)		Yes	Γ		Comment	s/Resolution
	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	•		105				
7. Was a s	ample cooler received?		Yes				
• •	vas cooler received in good condition?		Yes				
9. Was the	sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples arminutes of sampling	re received w/i 15	Yes				
13. If no v	risible ice, record the temperature. Actual sample	temperature: 4°0	<u> </u>				
Sample C							
-	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers		Yes				
19. Is the a	ppropriate volume/weight or number of sample contain	ners collected?	Yes				
	<u>el</u> ield sample labels filled out with the minimum info mple ID?	ormation:	Yes				
	ate/Time Collected?		Yes	L			
	ollectors name?		Yes				
	<u>reservation</u> he COC or field labels indicate the samples were p	reserved?	No				
	mple(s) correctly preserved?	reserved:					
	filteration required and/or requested for dissolved n	netals?	NA No				
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	se Sample Matrix	9	3.7				
	he sample have more than one phase, i.e., multipha		No				
27. 11 yes,	does the COC specify which phase(s) is to be analy	yzeur	NA				
	act Laboratory						
	mples required to get sent to a subcontract laborato subcontract laboratory specified by the client and i	•	No NA	Subcontract Lab	: NA		
Client In	struction						

Date

Page 12 of 12

APPENDIX F

NMOCD Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Erick Herrera

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Monday, October 2, 2023 2:48 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/5 - 10/6)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers • Environmental Specialist

Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113

505.469.1830 | scott.rodgers@emnrd.nm.gov

http://www.emnrd.nm.gov/ocd



From: Erick Herrera <erick@etechenv.com> Sent: Monday, October 2, 2023 12:40 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim < jim.raley@dvn.com>; Devon-Team < Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/5 - 10/6)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good morning,

WPX anticipates conducting confirmation soil sampling activities at the following site between October 5th through October 6th, 2023:

Proposed Date: October 5, 2023, October 6, 2023.

Proposed Timeframe: 0800 - 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, October 11, 2023 5:15 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

Hi Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com> Sent: Wednesday, October 11, 2023 3:33 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim < jim.raley@dvn.com>; Devon-Team < Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/16-10/20)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 16th through October 20th, 2023:

Proposed Date: October 16, 20023 Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 34

Incident Number: nAPP2326833391

API: 30-015-41578

Proposed Date: October 17, 20023 Proposed Timeframe: 0800 – 1700 hrs. Site Name: RDX Federal 21 #031 Incident Number: nAPP2326847671 API: 30-015-41266

Proposed Date: October 17, 20023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 - 1700 hrs.

Site Name: RDX 16 #009

Incident Numbers: nAPP2322658221 & nAPP2317840368

API: 30-015-39752

Proposed Date: October 16, 2023, October 17, 2023, October 18, 2023, October 19, 2023, October 20, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thank you,

Erick Herrera Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

Sent: Wednesday, October 18, 2023 5:25 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Bratcher, Michael,

EMNRD; Hall, Brittany, EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/23-10/27)

Hi Erick,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced

Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Erick Herrera <erick@etechenv.com> Sent: Wednesday, October 18, 2023 3:34 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim < jim.raley@dvn.com>; Devon-Team < Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/23-10/27)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

WPX anticipates conducting confirmation soil sampling activities at the following sites between October 23rd through October 27th, 2023:

Proposed Date: October 23, 2023, October 24, 2023, October 25, 2023, October 26, 2023, October 27, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Proposed Date: October 23, 2023, October 24, 2023, October 25, 2023, October 26, 2023, October 27, 2023

Proposed Timeframe: 0800 – 1700 hrs. Site Name: Sheep Draw Federal Battery #2 Incident Numbers: NGEG0720040869 API: 30-015-27015

Thank you,

Erick Herrera Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Sent: Wednesday, October 25, 2023 2:52 PM

To: Erick Herrera; blm_nm_cfo_spill@blm.gov; Hamlet, Robert, EMNRD; Hall, Brittany,

EMNRD

Cc: Raley, Jim; Devon-Team

Subject: RE: [EXTERNAL] WPX Site Sampling Activity Update (10/30-11/3)

You don't often get email from scott.rodgers@emnrd.nm.gov. Learn why this is important

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Scott Rodgers ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



From: Erick Herrera <erick@etechenv.com>
Sent: Wednesday, October 25, 2023 1:18 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; blm_nm_cfo_spill@blm.gov **Cc:** Raley, Jim <jim.raley@dvn.com>; Devon-Team <Devon-Team@etechenv.com>

Subject: [EXTERNAL] WPX Site Sampling Activity Update (10/30-11/3)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon.

WPX anticipates conducting confirmation soil sampling activities at the following site between October 30th through November 3th, 2023:

Proposed Date: October 30, 2023, October 31, 2023, November 1, 2023, November 2, 2023, November 3, 2023

Proposed Timeframe: 0800 – 1700 hrs.

Site Name: RDU 11

Incident Numbers: nAPP2200728755, nAB1712951426, nAB1728551205, nAB1728553778, & nHMP1412241998

API: 30-015-24307

Thanks,

Erick Herrera

Staff Geologist



Work: (432) 305-6416 Cell: (281) 777-4152

Erick Herrera

From: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Sent: Wednesday, June 7, 2023 10:36 AM

To: Raley, Jim

Cc: Devon-Team; Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD **Subject:** (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Importance: High

Some people who received this message don't often get email from robert.hamlet@emnrd.nm.gov. Learn why this is important

RE: Incident # NAPP2200728755, NAB1632647780, NAB1712951426, NAB1728551205, NAB1728553778, NHMP1412241998

Jim,

Your request for an extension to **October 20th, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave.| Artesia, NM 88210

575.909.0302 | robert.hamlet@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim < Jim.Raley@dvn.com> Sent: Wednesday, June 7, 2023 7:08 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com> **Subject:** [EXTERNAL] RE: RDU 11 Extension

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

BLM required quite an extensive cultural survey on the RDU 11 excavation project. We contracted SWCA to complete this task, they have finished and expect to provide a cultural survey report to BLM by 6/30/2023. BLM will need time to review this report and determine if any additional action is needed or if they will allow excavation with monitoring etc.

So we are not able to move forward with completion of this project until we receive clearance from BLM which I expect will be mid-July. Due to this circumstance, WPX Energy respectfully requests an additional 90 day extension from todays date or timeframe NMOCD deems reasonable.

Erick Herrera

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>

Sent: Tuesday, October 24, 2023 10:24 AM

To: Raley, Jim

Cc: Devon-Team; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD; Wells, Shelly, EMNRD

Subject: (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

No problem, thank you for the update.

Your request for an extension to **January 18th, 2024** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim <Jim.Raley@dvn.com> Sent: Friday, October 20, 2023 8:42 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Cc: Devon-Team < Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>;

Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov>

Subject: RE: [EXTERNAL] (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Robert,

To summarize the below extension request. Basically we could not start excavation till BLM gave the OK on a cultural site they were considering possibly significant. When they finally did give the OK to proceed, we started immediately on the excavation, but we just don't have time to finish excavation and reporting by the current deadline of October, 20th. We are in the middle of the excavation and plan on delivering closure as soon as completed. Delay on this project was out of our control.

WPX Energy Permian, LLC (WPX) is requesting an extension to the current deadline for a report required in 19.15.29.12.B.(1) NMAC at the Ross Draw Unit #011 (Site) associated with the following Incident Numbers: NHMP1412241998, nAB1712951426, nAB1728553778, nAB1728551205, and nAPP2200728755.

An extensive cultural survey was required by the Bureau of Land Management (BLM) for the proposed work areas in pasture soil prior to conducting remediation activities to address the Incident Numbers listed above according to a Remediation Work Plan approved on October 19, 2022. SWCA was contracted to conduct the cultural survey, which began on May 2, 2023, the earliest a field crew was available. The cultural survey was completed over the course of approximately 2.5 weeks, and a subsequent report was submitted to the BLM for review on July 28, 2023. On August 14,

2023, SWCA received report edits from the BLM, which were addressed in accordance with subsequent correspondence with the BLM. The revised report was re-submitted to the BLM for review on September 1, 2023, which was determined to require minor edits prior to approval. SWCA submitted the finalized report on September 8, 2023, and on September 21, 2023, the BLM approved the sundry with monitoring stipulations and remediation activities began on October 2, 2023. Excavation activities are still currently on-going and approximately 50% of the proposed excavation area remains.

To provide enough time to complete remediation activities, soil sampling analyses, and prepare a subsequent report, WPX requests a 90-day extension of the deadline for the multiple Incident Numbers at the Site to **January 18, 2023.**

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov>

Sent: Wednesday, June 7, 2023 9:36 AM **To:** Raley, Jim < <u>Jim.Raley@dvn.com</u>>

Cc: Devon-Team < Devon-Team@etechenv.com>; Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>;

Harimon, Jocelyn, EMNRD < Jocelyn. Harimon@emnrd.nm.gov >

Subject: [EXTERNAL] (Final Extension) - NAPP2200728755 - ROSS DRAW UNIT #011

Importance: High

RE: Incident # NAPP2200728755, NAB1632647780, NAB1712951426, NAB1728551205, NAB1728553778, NHMP1412241998

Jim,

Your request for an extension to **October 20th, 2023** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim < <u>Jim.Raley@dvn.com</u>>
Sent: Wednesday, June 7, 2023 7:08 AM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Cc: Devon-Team < <u>Devon-Team@etechenv.com</u>>
Subject: [EXTERNAL] RE: RDU 11 Extension

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Robert,

BLM required quite an extensive cultural survey on the RDU 11 excavation project. We contracted SWCA to complete this task, they have finished and expect to provide a cultural survey report to BLM by 6/30/2023. BLM will need time to review this report and determine if any additional action is needed or if they will allow excavation with monitoring etc.

So we are not able to move forward with completion of this project until we receive clearance from BLM which I expect will be mid-July. Due to this circumstance, WPX Energy respectfully requests an additional 90 day extension from todays date or timeframe NMOCD deems reasonable.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Raley, Jim

Sent: Tuesday, May 2, 2023 8:29 AM

To: Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov>

Subject: RDU 11 Extension

Robert,

We had a tentative due date of (4/21/2023) to complete excavation at the RDU 11 for several incidents. BLM has requested a fairly extensive cultural survey before we can begin excavation. We are currently waiting on the archeological vendor (SWCA) to complete the survey and have BLM review. Due to this delay we would like to request an extension to the due to date to 7/20/2023.

(nAPP2200728755, nAB1632647780, nAB1712951426, nAB1728551205, nAB1728553778, nHMP1412241998)



Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

APPENDIX G

Approved Remediation Work Plan

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Page 269 of 504

NM OIL CONSERVATION

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141 Revised August 8, 2011

MAY **0 2** 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

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						OF RELI						
Type of Rele	ase. Oil						Release: 50 Bbis		Volume	e Recovered	l: 40 B	bls
Source of Re	lease					Date and H	our of Occurrenc	:e	Date ar	id Hour of I	Discove	ry
Poly line						4/20/2017			4/20/20	17 - 13:20	hrs MT	`
Was Immedia	ate Notice (Yes [No Not Re	equired	If YES, To NMOCD C	Whom? Trystal Weaver &	Michael B	ratcher,	BLM Shell	y Tucke	er
By Whom? k	Karolina Bla	ancy				Date and H	lour: 4/21/2017-	9:57hrs M	Γ			
Was a Water	course Reac	hed?					lume Impacting t	he Watere	ourse.			
			Yes 🗵] No		N/A						
If a Watercon	irse was Im	pacted, Descr	ibe Fully.	* N/A		<u> </u>	····					
			•									
7.0	- CD -11	em and Reme	The board			<u>-</u>						-
Describe Cat	ise of Proof	em and Reme	diar Actio	n raken.*								
The spill wa	as caused h	ov human eri	or: the ec	quipment setup	was cha	inged and th	e calibration em	mlovees v	vere oix	en a wron	e infor	mation.
				en which resulte								
		n north and				,	5		-	· · · · · · · · · · · · · · · · · · ·	,	
								_	_			
Describe Arc	Describe Area Affected and Cleanup Action Taken.*											
The impacted area was mapped with Trimble. 40 bbls of oil was recovered with vac trucks. With BLM's approval, the impacted area off												
				ace to address ti	ne nyar	ocardon con	centrations, and	e impacie	i area v	viii be sam	pied in	determine
if any additional excavation is necessary.												
I hereby certi	fy that the i	information e	iven above	e is true and comp	lete to t	ne best of my	knowledge and u	nderstand	that purs	suant to NM	OCD r	ules and
				nd/or file certain r								
public health	or the envi	ronment. The	e acceptane	ce of a C-141 repo	ort by the	e NMOCD m	arked as "Final R	cport" doe	s not reli	ieve the ope	rator of	f liability
				investigate and r								
				otance of a C-141	report d	oes not reliev	e the operator of :	responsibil	ity for c	ompliance v	vith any	y other
rederal, state.	, or tocal ray	ws and/or regi	nations.	 -			OII CON	CEDVA	TION	DIVICI	NI.	
	Kawlina	Blanca					OIL CON	SEKVA	TION	DIAIDI	<u> </u>	
Signature:		J)			الريب	1 1			
						Approved by	Environmental B	becialist	(1 /X) s	AMERICAN COM	==	
Printed Name	e: Karolina	Blancy										
Thile. David		andalis:			{	A	e: 5 8 17		.!	nu All	4	
Title: Enviro	onmental Sp	ectatist			 -	Approval Dai	e: 20111	[Ex	piration	Date: N/	<u> </u>	
E-mail Addre	ess: Karolii	na.blancy@w	pxenergy.	com	{	Conditions of	Approval:			1		i
<u> </u>						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	See at	Lanhol	1	Attached	اللها	
Date: 5/2/2017 Phone: 970-589-0743					JULY MIT	inchia	ŀ	1				

	Page 270 of 5	04
Incident ID	nAB1712951426	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes 🔀 No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🔀 No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 💢 No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 💢 No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🂢 No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🔀 No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🔀 No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🔀 No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No				
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes □ No				
attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil ontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					

cont	tamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.
<u>C</u> h	naracterization Report Checklist: Each of the following items must be included in the report.
A	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
	Field data Data table of soil contaminant concentration data
	Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs Photographs including date and GIS information
	Topographic/Aerial maps Laboratory data including chain of custody

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

Received by OCD: 6/5/2024 11:43:43 AM State of New Mexico
Page 4 Oil Conservation Division

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Incident ID	nAB1712951426
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Jim Raley	Title: Environmental Professional			
Signature:	Date:			
email: jim.raley@dvn.com	Telephone:575-686-7597			
OCD Only				
Received by:	Date:			

Page 272 of 504

NM OIL CONSERVATION ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

OCT 05 2017

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in RECEIVED Coordance with 19.15.29 NMAC.

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505

	Release Notification and Corrective Action											
NAB1728553778o					OPERA:	ГOR		M Initia	l Report	П	Final Report	
Name of Company: RKI Exploration / WPX Energy 2442 By Contact:												
Address: 53	15 Buena	Vista Dr.					No. 970 589 0743	i				
Facility Nar	ne: RDU 1	I			I	Facility Typ	e: Well Pad					
Surface Ow	ner: Feder	al		Mineral C	wner: F	ederal	_ 		API No	. 30- 015-2	24307	
	LOCATION OF RELEASE											
Unit Letter	Section	Township	Range	Feet from the	,	South Line	Feet from the	East/V	Vest Line	County		
	}	-	-					İ		Ť		
0	22	26S	30E	660		FSL	1980		FEL	Eddy		
			La	titude: 32.0211	4 _ Lon	gitude I	03.86714_ NA	D83				
				NAT	URE	OF REL	EASE					
Type of Rele		ed Water					Release: unknow			ecovered 0		
Source of Re							lour of Occurrence	e		Hour of Dis	сочегу	
water transfe		3: 0				unknown			9/21/2017	at 13:10		
Was Immedia	ate Notice C		Yes [No Not Re	eonired	If YES, To	- whom? Crystal Weaver &	Michae	l Bratcher.	BLM Shelly	v Tucke	_{:r}
By Whom? k	Carolina Bla						Iour 9/21/17 at 16					
Was a Water			·				olume Impacting t		ercourse			
- The Later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and the later and			Yes 🗵] No			name midraving .		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
If a Watercoa	irse was Im	pacted, Descr	ibe Fully.	*								
		•										
N/A												
Describe Cau	ise of Proble	em and Reme	dial Actio	n Taken.*								
The cause of	this spill is	equipment fa	ilure; wea	r and tear of the p	oly line.	The spill occ	surred ~75-100' so	outh of	the RDU II	well pad a	nd the f	luids
migrated for	~600 yards	southwest of	that locati	on. The total volu								
~450' of the	water transf	er line has be	en replace	ed.								
Describe Are	a Affected :	and Cleanup.	Action Ta	ken.*								
					. <i>c</i> . c		ea communication					T-ibl- e-
				nediately to prever he impacted area v								
remediation v						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,					
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				e is true and comp nd/or file certain r								
				ce of a C-141 repo								
should their of	operations h	ave failed to	adequately	y investigate and r	emediate	contaminat	on that pose a thr	eat to g	round water	, surface wa	ater, hui	man health
				ptance of a C-141	report de	oes not reliev	e the operator of	respons	ibility for c	ompliance v	vith any	other
federal, state	, or local la	ws and/or reg	ulations.		—-		OH CON	CEDI	Z A CEYCONT	DY1 /1016	<u> </u>	
	W. I.	ia Blane					OIL CON	SEK V	ATION	DIVISIO	<u> </u>	
Signature:	rangain	w wane	y						11			
					 ,	Approved by	Environmental S	necialis	J. J. K	/ 		
Printed Name	e: Karolina	Blaney			'	-1. K - 2 - 4 - 23	argued 1	oy	11/4 N	ヘーママンロック かん	===	
		<u>.</u>					MELI	7		_ 111	$\overline{\Lambda}$	
Title: Enviro	nmental Sp	ecialist		 		Approval Da	te: D D '	J.,l.	Expiration	Date: N	<u>H</u>	
E-mail Addre	ess: Karolin	ia.blaney@wr	xenergy.c	om		Conditions of Approval:						
Dota: 10/5/17 Phone: 070 589 0743			\mathcal{B}	e) attack	ned			DD.	1432			

^{*} Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/5/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 100 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 11/5/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₅ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test plts, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465

jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent: Thursday, October 5, 2017 1:13 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD

Cc: Bratcher, Mike, EMNRD; Raley, Jim
Subject: WPX/RKI RDU 11 initial spill report

Attachments: RDU 11 C-141 9-21-17.doc; RDU 11 C-141 9-30-17.doc

Good afternoon,

Attached are two C-141 reports for spills that occurred on 9/21 and 9/30 south of the RDU 11 well pad. The footprint of both spills is very similar and the majority is overlapping. Our plan is to remediate and close both spills at the same time however, I understand that you will be assigning two separate incident numbers and I might need to submit separate paperwork.

Please let me know if you have any questions or suggestions.

Thank you,

Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514 Cell: (970) 589-0743

Cell: (970) 589-0743 karolina bianav@wnyene

karolina.bianey@wpxenergy.com

From: Blaney, Karolina

Sent: Saturday, September 30, 2017 8:26 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us> **Cc:** mike.bratcher@state.nm.us; Raley, Jim < James.Raley@wpxenergy.com>

Subject: WPX/RKI RDU 11 initial spill report

Good evening,

WPX had a spill this afternoon, 10/1/17 at 3 pm. The cause of the spill is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred south of the RDU 11 (API # 30-015-24307) well pad and the fluids migrated for ~100 yards southwest of that location. The total volume is unknown due to rainfall, but it exceeds the reportable quantities.

The C-141 report will be submitted within the next 15 days, but please do not hesitate to contact me if you have any questions.

thank you,

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Thursday, September 21, 2017 4:45 PM Sent: To: Weaver, Crystal, EMNRD; 'Tucker, Shelly' Bratcher, Mike, EMNRD; Raley, Jim Cc: WPX/RKI RDU 11 - initial notification Subject:

Good afternoon,

WPX discovered a spill this afternoon, 9/21/17 at 1:10 pm, located south of the RDU 11 well pad; API # 30-015-24307; O-22-26S-30E. The coordinates of the spill origin are: Lat 32.02114 long -103.86714. The cause is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred ~75-100' south of the RDU 11 well pad and the fluids migrated for ~600 yards southwest of that location. The total volume is unknown at this time but it exceeds the reportable quantities.

The spill report will be submitted in the next 15 days but if you have any questions or concerns, please do not hesitate to contact me.

Thank you,

Karolina Blaney

Environmental Specialist WPX Energy Office: (575) 885-7514 Cell: (970) 589-0743

karolina.blaney@wpxenergy.com

	Page 277 of 5	04
Incident ID	nAB1728553778	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes 🔀 No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🔀 No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🔀 No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🔀 No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🔀 No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🔀 No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ▼No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ▼ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🄀 No			
Did the release impact areas not on an exploration, development, production, or storage site?	¥ Yes ☐ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil ontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				

COIII	annihilation associated with the release have been determined. Refer to 17.13.25.11 144/1/10 specifies.
<u>Ch</u>	aracterization Report Checklist: Each of the following items must be included in the report.
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
	Data table of soil contaminant concentration data
	Depth to water determination
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs
$ \mathbf{X} $	Photographs including date and GIS information
	, Topographic/Aerial maps
	Laboratory data including chain of custody

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

Received by OCD: 6/5/2024 11:43:43 AM State of New Mexico
Page 4 Oil Conservation Division

Page 278 of 504

	I iig can o oj b
Incident ID	nAB1728553778
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	occ does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Jim Raley	Title:Environmental Professional
Signature:	Date:4/4/2022
email: _ jim.raley@dvn.com	Telephone:575-686-7597
OCD Only	
Received by:	Date:

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr.

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141 Revised April 3, 2017

OCT 0 5 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

District IV 1220 S. St. Fran	icis Dr., Santa	a Fc, NM 87505	i			St. Franc , NM 875	RECE	RECEIVED				
•			Rele				rrective A	ction		_		
NABIO	120551	205				OPERA'			Initial F	erort	П	Final Report
		KI Explorati	on / WP	X Energy 24/			rolina Blaney	<u> </u>	IIIIII F	сроп		That Acport
Address: 53							No. 970 589 0743					
Facility Nat	ne: RDU i	11]	Facility Typ	e: Well Pad					
Surface Ow	ner: Feder	al		Mineral C)wner: I	Federal		AP	I No. 30	0- 015-2	4307	
				LOCA	ATION	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West L	West Line County			
0	22	26S	30E	660		FSL	1980	FEL	E	đdy		
			La	titude: 32.0211	4 _ Lor	ngitudeI	03.86714_ NA	D83				
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Type of Rele	ase: Produc	ed Water					Release: unknow			overed 0		
Source of Re water transfe						Date and F 9/30/17	lour of Occurrenc		and Ho /2017 at	or of Dis	covery	
Was Immedi						If YES, To		·				
B 170 0 F			Yes L	No Not R	equired		Crystal Weaver &	,	cher, BL	M Shelly	/ Tucke	er
By Whom? I Was a Water							lour 9/30/17 at 20 folume Impacting t		sc.	<u>-</u>		 -
			Yes 🔀] No					• • •			
If a Watercon	orse was Im	pacted, Descr	ibe Fully.	*				-				
N/A												
Describe Cau	ise of Probl	em and Remo	dial Actio	n Taken.*							-	
The cause of	this sailt is	ecuipment fa	iluza: waa	r and tour of the n	oly line	The spill occ	curred ~75-100' so	outh of the RI	MIII w	eli nactor	nd the i	fluids
migrated for	~100 yards	southwest of	that locati	on. The total volu	ime is un	known duc t	o heavy rainfall b	ut it exceeds t	he report	table qua	ntities.	
~450' of the	water transf	fer line has be	en replace	ed.								
Describe Are	a Affected	and Cleanup	Action Tal	ken.*								
The water tra	msfer opera	tions were sto	pped imn	nediately to preven	nt from f	urther release	e of the fluids and	the impacted	arca wa	s mapped	1 with a	a Trimble to
delineate the	horizontal o	extent of the i	mpacts. T	he impacted area	was sam	pled for TPH	, BTEX and Chlo	rides on 10/4	/17. Furti	her reme	diation	will be
based on the	sampling re	esuns.										
							knowledge and u					
							nd perform correct arked as "Final R					
should their	operations h	nave failed to	adequately	y investigate and i	remediate	e contaminat	ion that pose a thr	eat to ground	water, st	irface wa	ater, hu	ıman health
		addition, NMC ws and/or reg		ptance of a C-141	report de	oes not reliev	e the operator of	responsibility	tor com	phance v	vith ang	y otner
			•				OIL CON	SERVATI	ON D	IVISIO	N	
Signature:	Kanlin	w Blane	4		}							
O'B'MCGTO.			<i>!</i>	 		Approved by	Enviro Gigord B	accident	ر درسدا مجمد			
Printed Nam	e: Karolina	Blaney			_			·		2012 100		
Title: Enviro	nmental Sp	ecialist				Approval Da	1e: 10 5 17	Expir	ation Da	le: N	7	
E-mail Addr	ess: Karolin	a.blaney@wr	xenerov c	com		Conditions o	f Approval:				←	
						Committee V	$\mathcal{L}_{\alpha\alpha}$	Hogh	h	Attached 2 D	6	121
Date: 10/5/	1/	Phone	: 970 589	0743			<u> </u>	AT LUCY!		<u> </u>	<u> </u>	ונודד

^{*} Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/5/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District $\frac{2}{\sqrt{2017}}$ office in $\frac{ARTESIA}{ARTESIA}$ on or before $\frac{11/5/2017}{4}$. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) if groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent: Thursday, October 5, 2017 1:13 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD

Cc: Bratcher, Mike, EMNRD; Raley, Jim Subject: WPX/RKI RDU 11 initial spill report

Attachments: RDU 11 C-141 9-21-17.doc; RDU 11 C-141 9-30-17.doc

Good afternoon,

Attached are two C-141 reports for spills that occurred on 9/21 and 9/30 south of the RDU 11 well pad. The footprint of both spills is very similar and the majority is overlapping. Our plan is to remediate and close both spills at the same time however, I understand that you will be assigning two separate incident numbers and I might need to submit separate paperwork.

Please let me know if you have any questions or suggestions.

Thank you,

Karolina Blancy

Environmental Specialist WPX Energy Office: (575) 885-7514

Office: (575) 885-7514 Cell: (970) 589-0743

karolina.blaney@wpxenergy.com

From: Blaney, Karolina

Sent: Saturday, September 30, 2017 8:26 PM

To: stucker@blm.gov; Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us > Cc: mike.bratcher@state.nm.us; Raley, Jim < James.Raley@wpxenergy.com >

Subject: WPX/RKI RDU 11 initial spili report

Good evening,

WPX had a spill this afternoon, 10/1/17 at 3 pm. The cause of the spill is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred south of the RDU 11 (API # 30-015-24307) well pad and the fluids migrated for ~100 yards southwest of that location. The total volume is unknown due to rainfall, but it exceeds the reportable quantities.

The C-141 report will be submitted within the next 15 days, but please do not hesitate to contact me if you have any questions.

thank you,

Bratcher, Mike, EMNRD

From: Blaney, Karolina < Karolina.Blaney@wpxenergy.com>

Sent:Saturday, September 30, 2017 8:26 PMTo:stucker@blm.gov; Weaver, Crystal, EMNRD

Cc:Bratcher, Mike, EMNRD; Raley, JimSubject:WPX/RKI RDU 11 initial spill report

Good evening,

WPX had a spill this afternoon, 10/1/17 at 3 pm. The cause of the spill is equipment failure; an above ground water transfer line failed which resulted in a produced water spill. The water transfer operations were stopped immediately to prevent from further release of the fluids. The spill occurred south of the RDU 11 (API # 30-015-24307) well pad and the fluids migrated for ~100 yards southwest of that location. The total volume is unknown due to rainfall, but it exceeds the reportable quantities.

The C-141 report will be submitted within the next 15 days, but please do not hesitate to contact me if you have any questions.

thank you, Karolina Blaney 970 589 0743 Page 284 of 304

Incident ID	nAB1728551205
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 20 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🔀 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes X No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes X No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🔀 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🔀 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	XYes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vert contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ical extents of soil

COIII	tanimation associated with the release have been determined. Refer to 17.13.27.11 (vivix to for specifies.
<u>Ch</u>	naracterization Report Checklist: Each of the following items must be included in the report.
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
	Data table of soil contaminant concentration data
	Depth to water determination
$ \mathbf{X} $	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
	Boring or excavation logs
\bowtie	Photographs including date and GIS information
$ \mathbf{Z} $	Topographic/Aerial maps
	Laboratory data including chain of custody

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

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	0 0 3
Incident ID	nAB1728551205
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name: Jim Raley	Titl:Environmental Professional
Signature:	Date: 4/4/2022
email:jim.raley@dvn.com	Telephone: 575-686-7597
OCD Only	
Received by:	Date:

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	I ing a growth of the
Incident ID	nAPP2200728755
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.						
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)						
Deferral Requests Only: Each of the following items must be com-	firmed as part of any request for deferral of remediation.					
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility					
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:Jim Raley	Title: Environmental Professional					
Signature: Jin Rolly	Date:					
email: jim.raley@dvn.com	Telephone:575-686-7597					
OCD Only						
Received by: Robert Hamlet	Date:5/4/2022					
☐ Approved ☐ Approved with Attached Conditions of	Approval					
Signature: Robert Hamlet	Date: 5/4/2022					

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

Contact Name: Jim Raley

Responsible Party: WPX Energy Permian, LLC

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2200728755
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID: 246289

Contact Telephone: 575-689-7597

Contact email: jim.raley@dvn.com				Incident	# (assigned by OCD) nAPP2200728755	
Contact mai 88220	ling address:	5315 Buena Vist	a Dr., Carlsbad N	NM		
			Locatio	n of Release S	Source	
Latitude 32.0)224991		(NAD 83 in 6	Longitude decimal degrees to 5 dec	-103.8669281 imal places)	
Site Name: F	ROSS DRAW	V UNIT #011		Site Type	: Oil Production Site	
Date Release	Discovered	: January 4 th . 2022	2	API# (if ap	pplicable) 30-015-24307	
Unit Letter	Section	Township	Range	Cou	inty	
О	22	26S	30E	Eddy		
	1	Volume Releas Volume Releas	all that apply and atta ed (bbls) 20 ed (bbls) 24		Volume Recovered (bbls) 0 Volume Recovered (bbls) 0	
		Is the concentration of dissolved chlorid produced water >10,000 mg/l?		chloride in the	⊠ Yes □ No	
Condens	ondensate Volume Released (bbls)			Volume Recovered (bbls)		
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)		de units)	Volume/Weight Recovered (provide units)			
pad surface a	and slightly o	off-pad. <i>Volume yds^3 x</i> _A	percent porosity		from PRV and impact soils in dirt secondary containment ds^3)] = bbls of residual fluid in soil ng fluid	

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Incident ID	nAPP2200728755
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Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?	
⊠ Yes □ No		
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc) Via email sent to Mike Bratcher, Emily Hernandez and Robert Hamlet on 1/4/2022		
Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury		
	ease has been stopped. s been secured to protect human health and the environment.	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.		
All free liquids and recoverable materials have been removed and managed appropriately. If all the actions described above have not been undertaken, explain why:		
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Printed Name:James	s Raley Title: Environmental Specialist	
Signature:	P4/ Date:1/10/2022	
email:jim.raley@dvn	.com Telephone:575-689-7597	
OCD Only		
Received by: Ramona N	Marcus Date: 1/10/2022	

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**

CONDITIONS

Action 71386

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	71386
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/10/2022

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>105 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes X No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes X No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🔀 No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🔀 No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes X No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes X No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data	ls.

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

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Depth to water determination

Photographs including date and GIS information

Laboratory data including chain of custody

Boring or excavation logs

Topographic/Aerial maps

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Incident ID	nAPP2200728755
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Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12 Proposed schedule for remediation (note if remediation plan time	
Deferral Requests Only: Each of the following items must be conf	irmed as part of any request for deferral of remediation.
 Contamination must be in areas immediately under or around prodeconstruction. Extents of contamination must be fully delineated. 	
Extents of contamination must be fully defineated.	
$\hfill \square$ Contamination does not cause an imminent risk to human health,	the environment, or groundwater.
I hereby certify that the information given above is true and complete rules and regulations all operators are required to report and/or file ce which may endanger public health or the environment. The acceptantiability should their operations have failed to adequately investigate a surface water, human health or the environment. In addition, OCD acresponsibility for compliance with any other federal, state, or local law	rtain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, eceptance of a C-141 report does not relieve the operator of
Printed Name: Jim Raley	Title: Environmental Professional
Signature: fin Rily	Date:
email: jim.raley@dvn.com	Telephone:575-686-7597
	Telephone.
OCD Only	
Received by:	Date:
Approved	pproval
Signature:	Oate:



REMEDIATION WORK PLAN AND DEFERRAL REQUEST REPORT

Site Location:

Ross Draw Unit #011 Eddy County, New Mexico Incident Numbers: NHMP1412241998 nAB1632647780 nAB1712951426 nAB1728553778 nAB1728551205 nAPP2200728755

April 1, 2022 Ensolum Project No. 03A1987006

Prepared for:

WPX Energy Permian, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220 Attention: Jim Raley

Prepared by:

Joseph S. Hernandez Senior Geologist Ashley A. Ager Ashley Ager, M.S., PG Program Director, Geologist Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report April 1, 2022



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Арре		Figure 2A – Delineation Soil Sample Locations (nAP1712951426 and nAPP2200728755) Figure 2B – Delineation Soil Sample Locations (nAB172855377 and nAB1728551205) Figure 3 – Area of Concern Tract (NHMP1412241998) Figure 4 – Proposed Excavation Extent Well Record
Appo	endix	Figure 2A – Delineation Soil Sample Locations (nAP1712951426 and nAPP2200728755) Figure 2B – Delineation Soil Sample Locations (nAB172855377 and nAB1728551205) Figure 3 – Area of Concern Tract (NHMP1412241998) Figure 4 – Proposed Excavation Extent Well Record C: Lithologic Soil Sampling Logs
Appe Appe	endix endix	Figure 2A – Delineation Soil Sample Locations (nAP1712951426 and nAPP2200728755) Figure 2B – Delineation Soil Sample Locations (nAB172855377 and nAB1728551205) Figure 3 – Area of Concern Tract (NHMP1412241998) Figure 4 – Proposed Excavation Extent B: Well Record C: Lithologic Soil Sampling Logs D: Photographic Log

April 1, 2022

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



1.0 INTRODUCTION

Ensolum, LLC (Ensolum) has prepared this Remediation Work Plan Report (RWP) to document site assessment, soil sampling activities and preliminary corrective actions performed to date by WPX Permian Energy, LLC (WPX) at the Ross Draw Unit #011 (hereinafter referred to as the "Site") in Unit O, Section 22, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1 in Appendix A). Based on field observations, field screening activities and review of the laboratory analytical results from delineation soil sampling activities at the Site, WPX respectfully submits this RWP, which summarizes soil sampling activities and initial response efforts that have occurred and proposes additional remediation and soil sampling activities to further investigate and address reportable releases of produced water and/or crude oil at the Site.

Additionallly, WPX has provided relevant information from a recent deferral request (Incident Number NRM2034258716), authored by WSP USA Inc. (WSP) and approved by New Mexico Oil Conservation Division (NMOCD) on January 13, 2022 for a release that overlapped historical Incident Number nAB1632647780. WPX respectfully requests NMOCD review the field summary and laboratory analytical data as it is applicable in the deferral request for Incident Number nAB1632647780. All previous remediation activities and soil sample analytical results can be referenced in the original approved Deferral Request.

1.1 Site Description and Release Background

The Site is located within Eddy County, New Mexico (32.022210° N, 103.867013°W) and is associated with oil and gas exploration and production operations on Bureau of Land Management (BLM) Federal Land (Figure 1 in Appendix A).

NHMP1412241998

On March 18, 2014, a 4-inch PVC transfer line leaked and caused 200 barrels (bbls) of oil and produced water to be released and migrate southwest-west approximately 0.6 miles through the pasture. No fluids were able to be recovered immediately. WPX reported the release to the NMOCD via email and with a subsquent Corrective Action Form C-141 (Form C-141) dated March 29, 2014. The release was assigned Incident Number NHMP1412241998.

nAB1632647780

On November 5, 2016, a pump air locked and caused an oil tank to overfill and release approximately 70 bbls of crude oil into the earthen containment berm. No fluids escaped the earthern containment berm. Approximately 66 bbls of crude oil were recovered via vacuum truck. WPX reported the release to the NMOCD via email on November 6, 2016 and with a subsquent Form C-141 on November 17, 2016. The release was assigned Incident Number nAB1632647780.

nAB1712951426

On April 20, 2017, human error during equipment reconfiguration resulted in overpressurization of an aboveground poly line that released approximately 50 bbls of crude oil to the pasture north and west of the well pad location. Approximately 40 bbls of crude oil were recovered. WPX

Ross Draw Unit #011

Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426

nAB1728553778, nAB1728551205, nAPP2200728755

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reported the release to the NMOCD via email on April 21, 2017 and with a subsquent Form C-141 on May 2, 2017. The release was assigned Incident Number nAB1712951426.

nAB1728553778 and nAB1728551205

On September 21, 2017 and September 30, 2017 it was discovered that a poly line had failed between 75 and 100 feet south of the well pad and resulted in an unknown volume of produced water to be released and migrate an estimated 600 yards southwest in the pasture. No fluids were able to be recovered immediately due to heavy rainfall but volumes appeared to exceed the reportable limit. WPX reported the releases to the NMOCD via email and with subsquent Form C-141s on October 5, 2017. Incident Numbers nAB1728553778 and nAB1728551205, respectively were assigned.

nAPP2200728755

On January 4, 2022, the dump malfunctioned on a separator, causing the release of approximately 24 bbls of produced water and 20 bbls of crude oil into a earthen berm secondary containment and immediate pasture. No fluids were able to be recovered immediately but the release area on pad was excavated to approximately 0.5 foot below ground surface (bgs) to address surface staining. WPX reported the release to the NMOCD via email on January 4, 2022 and with a subsquent Form C-141 January 10, 2022. The release was assigned Incident Number nAPP2200728755.

1.2 Site Characterization

Ensolum characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on **Figure 1 in Appendix A.**

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based a soil boring (MW-1) that was drilled by Talon LPE on December 9, 2020, located approximately 0.40 miles southeast of the Site. Using a truck mounted drill rig equipped with hollow stem auger, the soil boring was advanced to a total depth of 106 feet bgs. No fluids were observed within the soil boring after at least 72 hours. Following the observation period, the boring was plugged and abandoned. The well log is provided as **Appendix B.**

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbon (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 **ENSOLUM**

Remediation Work Plan Report April 1, 2022

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet in the pasture area that was impacted by the release.

1.3 Project Objective

The primary objectives of Ensolum's scope of services were to document soil characterization and delineation actions performed at the Site were completed in accordance with the applicable NMOCD regulatory RWP guidelines and to document those concentrations of constituents of concern (COCs) present in soil remaining on-Site required to be addressed.

2.0 SOIL SAMPLING AND INITIAL REMEDIAL ACTIONS

WPX conducted initial remediation activities for Incident Number nAPP2200728755 by excavating impacted soil on pad for off-Site disposal. WSP conducted soil sampling activities to verify the presence or absence of soil impacts associated with the subject releases.

2.1 Delineation Activities

nAP1712951426 and nAPP2200728755

On January 25, 2022 and Febraury 28, 2022, delineation activities were conducted by WSP to confirm the presence or absence of impacted soil in areas associated with the subject release area. Delineation samples were collected in boreholes advanced with a hand auger (samples designated BH). Delineation activites were directed by field sceening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (BH01 through BH17): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 3 foot bgs) and the greatest depth (4 feet bgs). The location of the delineation samples are shown in Figure 2A in Appendix A. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil sampling logs (Appendix C). The soil samples were placed directly into a pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C), under strict chain-of-custody procedures, to Eurofins LLC (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0. Photographic documentation during delineation activities is included in Appendix D.

nAB1728553778 and nAB1728551205

On March 3, 2022, delineation activities were conducted by WSP to confirm the presence or absence of impacted soil in areas associated with the subject release area. Delineation samples were collected in boreholes advanced with a hand auger (samples designated BH). Delineation activites were directed by field sceening soil for VOCs utilizing a calibrated PID and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each delineation soil sample location (BH01 through BH10): the sample with the highest observed field screening (ranging from 0.5 foot bgs to 2 feet bgs) and the greatest depth (4 feet bgs). The location of the delineation samples are shown in **Figure 2B in Appendix A**. Field screening results and observations for each delineation soil sample were recorded on lithologic/soil

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Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755



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sampling logs (Appendix C). The soil samples were handled, collected and analyzed as previously described. Photographic documentation during delineation activities is included in Appendix D.

3.0 SOIL SAMPLING RESULTS

nAP1712951426 and nAPP2200728755

Laboratory analytical results for delineation soil samples BH03, BH04, BH10, BH13, BH16 and BH17 indicated COCs were above the reclamation standard requirement. Based on the current extent of soil characterization at the Site, it appears that vertical impacts exceeding Closure Criteria do not exceed 4 feet bgs in the pasture. Laboratory analytical results for delineation soil samples BH01, BH02, BH05 through BH09, BH11, BH12, BH14 and BH15 indicated COCs were within the applicable Closure Criteria and/or reclamation standard requirement.

nAB1728553778 and nAB1728551205

Laboratory analytical results for delineation soil samples BH01 through BH03 indicated COCs were above the reclamation standard requirement. Based on the current extent of soil characterization at the Site, it appears that vertical impacts exceeding Closure Criteria do not exceed 4 feet bgs in the pasture. Laboratory analytical results for delineation soil samples BH04 through BH10 indicated COCs were within the applicable reclamation standard requirement.

Laboratory analytical results are summarized in the **Table 1** included in **Appendix E**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix F**.

4.0 DEFFERAL REQUEST

nAB1632647780

The Deferral Request for Incident Number NRM2034258716, authored by WSP, was approved by NMOCD on January 13, 2022 and overlapped historical Incident Number nAB1632647780. WPX respectfully requests NMOCD review the laboratory analytical data as it can be applicable for this release to provide vertical and lateral definition of the historical release. All previous remediation activities and soil sample analytical results can be referenced in the original approved Deferral Request.

Based on the summary of the approved Deferral Request, the following findings and conclusions regarding the incident are presented:

- Based on laboratory analytical results of confirmation and delineation soil samples for Incident Number NRM2034258716, impacts associated with Incident Number nAB1632647780 were confirmed to have remained within the secondary containment, as documented on the Form C-141;
- Based on soil laboratory analytical results and extent of release area within the secondary
 earthen berm containment, an estimated 102 cubic yards was approved to be deferred
 until the Plugging and Abandonment or recontruction of the Site, whichever comes first.

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Ross Draw Unit #011 Incident Number: NHMP1412241998, nAB1632647780, nAB1712951426 nAB1728553778, nAB1728551205, nAPP2200728755 Remediation Work Plan Report



Based on the findings and conclusions of this approved Deferral Report and review and applicability to historical Incident Number nAB1632647780, No Further Action appears warranted at this time and the Site should be respectfully considered for Deferral by the NMOCD using the previously collected data.

5.0 REMEDIATION WORK PLAN

Based on the results documented in this report, the following findings and conclusions regarding the releases are presented:

- Areas within the top four feet of the pasture contain impacted soil exceeding the reclamation standard; however, impacts exceeding Closure Criteria within the area of concerns for nAB1728551205, nAB1728553778 and nAB1712951426 and release extent for nAPP220728755 do not appear to exceed 4 feet bgs;
- Based on existing soil analytical results and mapped extent of the release areas, an
 estimated 6,840 cubic yards of impacted soil is anticipated to be remediated and/or
 removed from the Site for disposal in accordance with state and federal regulations. The
 current proposed excavation extent is depicted on Figure 4 in Appendix A;
- Based on laboratory analytical results for delineation samples from BH01, BH06, BH05, BH09, BH11 and BH12 (nAP1712951426 and nAPP2200728755), no remediation efforts are required in these areas. No areas on pad exceed the Closure Criteria for the Site.

Based on the conclusions presented above, the following remediation is proposed:

- Soil characterization and investigation is required to determine the lateral and vertical extent of impact associated with Incident Number NHMP1412241998. A proposed tract that aligns with details provided on the C-141 is provided on Figure 3 in Appendix A. Ensolum will conduct delineation activities to verify the presence or absence of soil impacts associated with this incident. Laboratory analytical results will be used to update additional cubic yards of soil to be remediated, if any;
- Horizontal delineation of all releases associated with nAB1728551205, nAB1728553778 and nAB1712951426 and nAPP220728755 will be defined through delineation samples or 5-point composite sidewall samples following the removal of residual impacts;
- Impacted soil will be excavated from the top four feet of the areas in the pasture containing soil exceeding the reclamation standard. Excavated soil will then be transferred to: (a) a New Mexico approved landfill facility for disposal and the excavation will be backfilled with Non-waste containing soil, as defined by "Procedures for Implementation of the Spill Rule" (September 6, 2019) or (b) an on-site ex-situ treatment cell for chloride extraction. Following review of the additional soil characterization at the Site, WPX will re-evaluate the proposed remedial options and submit a revised RWP detailing the option (b) treatment and sampling plan for NMOCD review, if selected.
- Surface scraping may be conducted to remove any minor surficial staining in areas that are delineated;

April 1, 2022

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 Access for remediation or disturbance that occurs offsite requires BLM approval with additional coverage. WPX will prepare and submit documentation for proposed work areas before initiating corrective actions;

- There are areas off pad (ex. Right-of-Way) that will likely require third-party operator oversight and additional safety measures before or during remediation activities near their respective subsurface pipelines. WPX or the third party operator may implement additional safety precautions above encroachment guidelines, including restrictions on hand shoveling and cribbing. These restrictions may be implemented as health and safety precautions at the judgment and responsibility of a WPX or third-party operator safety representative.
- Subsequent to the completion of remediation and receipt of soil confirmation sample results documenting that impacted soil had been removed, the excavation will be backfilled with clean and/or treated soil and restored to "as close to its original state" as possible.

5.1 Proposed Sampling

WPX is requesting a variance to the 200 square foot confirmation sampling requirement for the areas to be excavated, which would require an estimated 193 floor samples within the release extent, excluding sidewall samples. Due to the large extent of the impacted areas (38,500 square feet), Ensolum proposes increasing the confirmation sampling size to collecting a 5-point composite sample to represent each 1,000 square foot area for the floors and sidewalls of the excavation.

5.2 Proposed Schedule

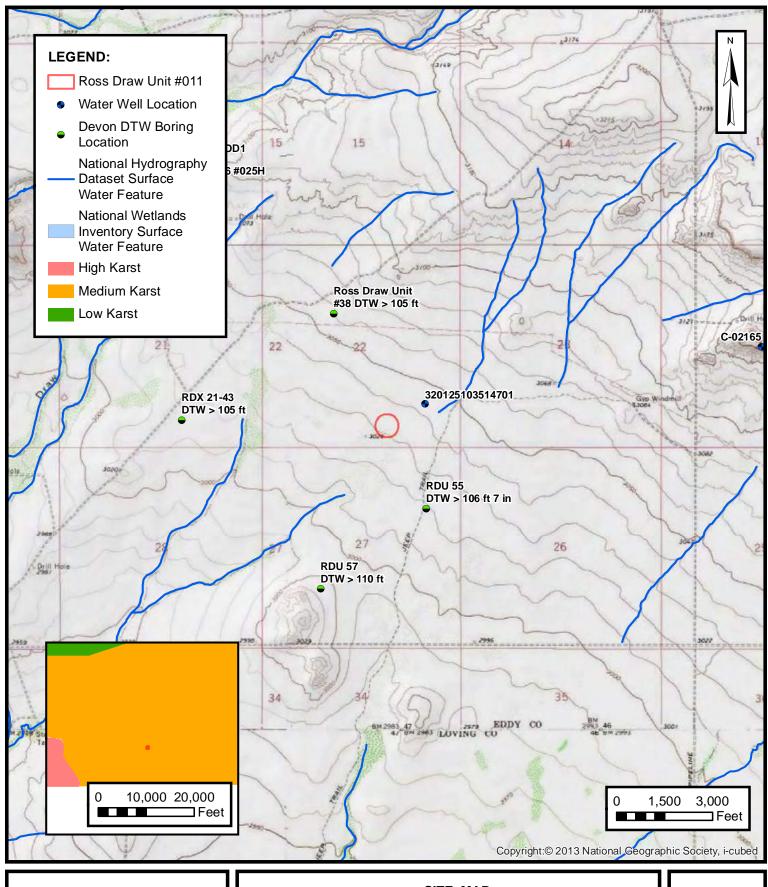
WPX believes the scope of work described above will meet requirements set forth in NMAC 19.15.29.13 and be protective of human health, the environment, and groundwater. As such, WPX respectfully requests approval of this RWP from NMOCD.

Based on the extent of corrective measures, planning and potential third-party operator oversight at the Site, WPX anticipates beginning remediation by **January 2023**.



APPENDIX A

Figures





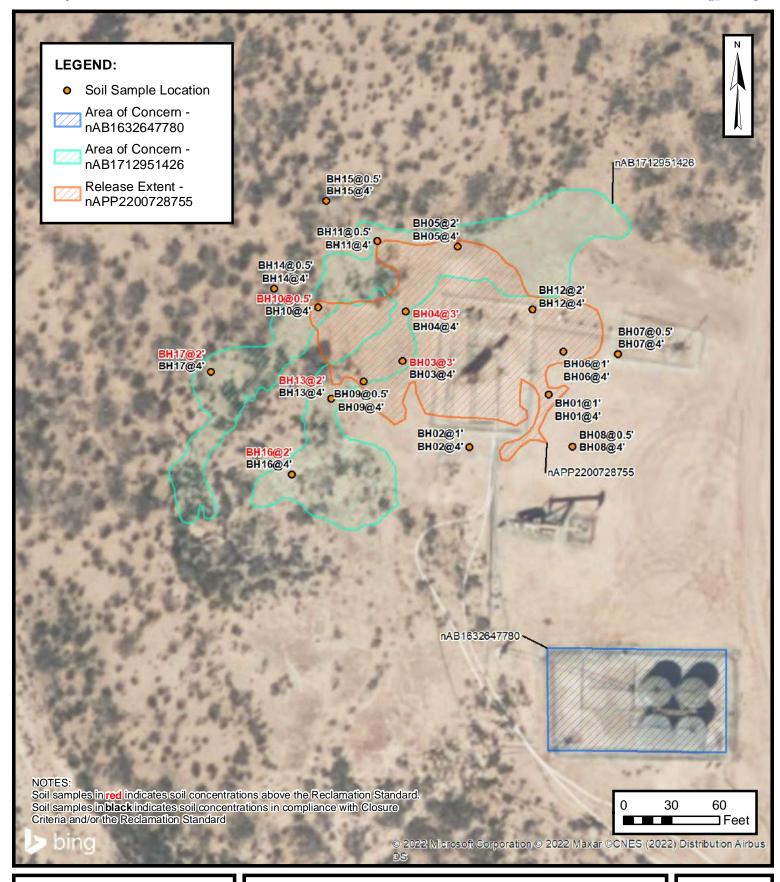
SITE MAP

WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

1





DELINEATION SOIL SAMPLE LOCATION MAP 2A

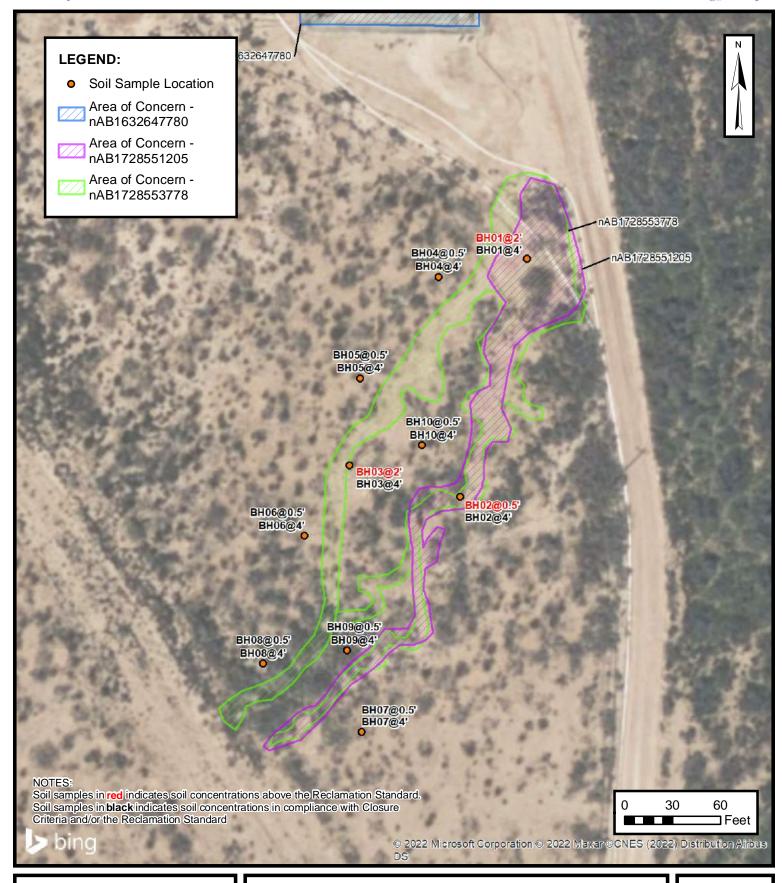
WPX ENERGY PERMIAN, LLC.
ROSS DRAW UNIT #011
Eddy County, New Mexico

32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

2A





DELINEATION SOIL SAMPLE LOCATION MAP 2B

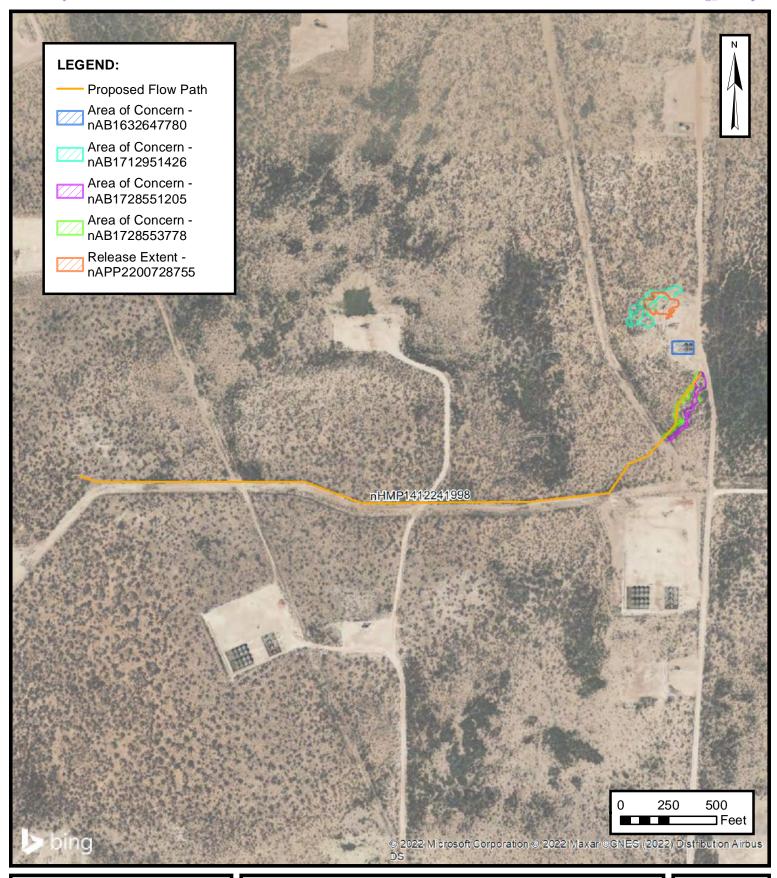
WPX ENERGY PERMIAN, LLC.
ROSS DRAW UNIT #011
Eddy County, New Mexico

32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

2B





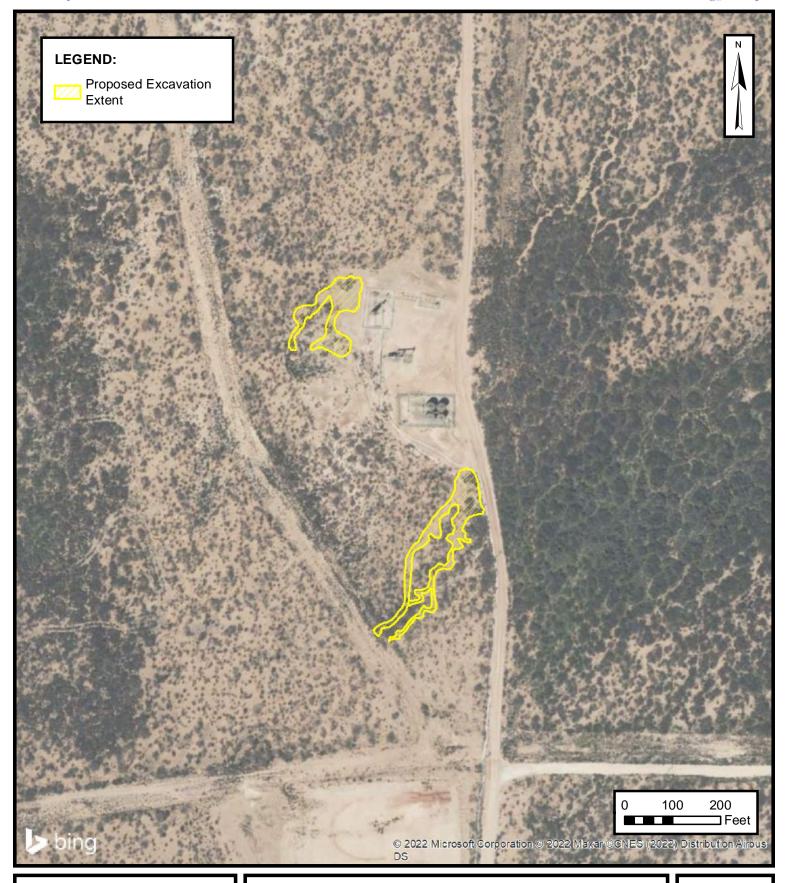
AREA OF CONCERN TRACT

WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

3





PROPOSED EXCAVATION AREAS

WPX ENERGY PERMIAN, LLC. ROSS DRAW UNIT #011 Eddy County, New Mexico 32.022210° N, 103.867013° W

PROJECT NUMBER: 03A1987006

FIGURE

4



APPENDIX B

Well Record

		HR	1						MONITORING W	ELL COMPLETION	N DIAGI	RAM
*				IAN	C E		Boring/Wel		W-1	Location: Ross Draw U	Init #55	
	159	SO	וֹ וו וֹ		N C		Date: Client:					
	7M	3 0			14 3		12/9/2020 WPX Energ					
_	lling Method:							Logged By: Drilled By:				
Gravel Pacl	ir Rotar	У	Gravel Pac	k Depth Inte	one erval:		Seal Type:	J. Linn, PG Talon LPE al Type: Seal Depth Interval: Latitude:		PE		
	0/20 Sar	nd	Graver r ac		Bags			None None 32.016165				
Casing Typ	e:	Diameter:				Boring Total Depth (ft. BGS): Longitude:						
PVC		2-inch		0-101'7			106'7" Well Total Depth (ft. BGS): Depth (pd. BGS):			-103.863		
Screen Typ PVC	e:	Slot: 0.010-ir	nch	Diameter:	Depth 1	Interval:	Well Total): 5 '7"	Depth to Water (ft. BTOC): >106' 7"	DTW Date: 12/16/	
			ICII	Z-IIICII) / 	>100 /	12/10/	2020
Depth Interval (ft)	Recovery (ft)	Plasticity	Moisture	Odor	Staining	PID (ppm)	USCS	Sample ID	Litholog	Lithology/Remarks Con		
0 5 10 15	NM	L	D	N	N	NM	SP	NS	_	olored poorly graded minor silt	-	
20 25 30	NM	L	D	N	N	NM	SW	NS	_	ell graded fine sand m and coarse sand	-	
35 40 45 50 55 60	NM	L	D	N	N	NM	SP	NS	-	poorly graded fine ninor gravel	-	
65 70 75 80 85	NM	L	D	N	N	NM	SP	NS		led fine sand with gravel		
90 95	NM	L	D	N	N	NM	SP	NS	with minor silt and	y graded fine sand minor medium sand	-	
100 106'7"	NM	M	D	N	N	NM	SC	NS		d with moderate silt TD 106'7"	-	



APPENDIX C

Lithologic Soil Sampling Logs

								Commis Names DUO1	Data: 1 25 2022	
								Sample Name: BH01	Date: 1-25-2022	
			N	S	0	U	M	Site Name: Ross Draw Unit #0 Incident Number: nAPP2200		
-	77						34 CAR 14		728755 & NAB1712951426	
<u> </u>		ITUOL	2616	150115	ANADIINA	106		Job Number: 03A1987006	Mother de Hand Access	
Caand					AMPLING	LUG		Logged By: MR	Method: Hand Auger Total Depth: 4'	
				3.866936°		alarida Tast (Ctrine and	Hole Diameter: 4"	,	
	Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions	
					<u></u>	0	SP-SM	0-4', SAND, dry, dark br silt, some staining,	own, poorly graded with H-C odor.	
М	1,260	1.6	Υ	вн01	1 - - 1	1		At 2', decrease in staing decrease in odor t At 3', no staining, no od	to slight H-C ofor.	
М	816	0.9	Υ		2	2				
М	1,020	0.2	N		3 <u>-</u> 3 <u>-</u>	3				
M	1,176	0.1	N	BH01	4 -	4	TD	Total depth at 4' bgs.		

Date: 1-25-2022 755 & nAB1712951426 Method: Hand Auger Total Depth: 4' ectively. Chloride test escriptions on, poorly graded with lor.
Method: Hand Auger Total Depth: 4' ectively. Chloride test escriptions
Method: Hand Auger Total Depth: 4' ectively. Chloride test escriptions
Total Depth: 4' ectively. Chloride test escriptions on, poorly graded with
Total Depth: 4' ectively. Chloride test escriptions on, poorly graded with
ectively. Chloride test escriptions on, poorly graded with
escriptions on, poorly graded with
n, poorly graded with
n, poorly graded with lor.

								Sample Name: BH03	Date: 1-25-2022
	-1							Site Name: Ross Draw Unit #011	Date: 1 23 2022
		=	N	5	OL			Incident Number: nAPP22007287	55 & nAB1712951 <i>4</i> 26
	77							Job Number: 03A1987006	75 Q 11/1D17 12551420
		ITHOL	OGIC	'/ SOIL S	SAMPLING	ine		Logged By: MR	Method: Hand Auger
Coord				3.867186°		100		Hole Diameter: 4"	Total Depth: 4'
						loride Test '	Strins and	PID for chloride and vapor, respec	
								factors included.	tively: emonae test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	Lithologic Des	·	
					1	0	SP-SM	0-4', SAND, dry, dark brown silt, no staining, slight o	, poorly graded with
					<u>-</u>	_		Siit, no Stairing, Siight C	Juoi.
					_	-		At 3', no odor.	
					<u>-</u>	Ė		At 5, 110 odor.	
M	<128	2.5	Υ		1 _	_ 1			
					<u>-</u>	_			
					<u>-</u>	F			
					_	_			
М	280	2.5	Ν		2	_ 2			
					-	_			
					-	_			
					_	_			
М	1,544	1.1	Ν	BH03	3	3			
					-	-			
					_	_			
					_	_			
М	1,896	1.4	N	BH03	4	4	TD	Total depth at 4' bgs.	
					<u>-</u>	-			
					_	_			
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								Cample Name: BU04	Dato: 1 25 2022
								Sample Name: BH04 Site Name: Ross Draw Unit #0	Date: 1-25-2022
			N	S	OI	U	V	Incident Number: nAPP22007	
	77						-332		20/33 & HAB1/12931420
		LITUOL	0010	150115	A NAIDLINIA	100		Job Number: 03A1987006	Made al. Harried A
C 1					SAMPLING	LUG		Logged By: MR	Method: Hand Auger Total Depth: 4'
				3.867181°			Charles and	Hole Diameter: 4"	· · · · · · · · · · · · · · · · · · ·
			_					PID for chloride and vapor, re factors included.	spectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
						0	SP-SM	0-4', SAND, dry, dark bro silt, slight staining,	own, poorly graded with slight odor.
					_	<u> </u>			
					_	<u> </u>		At 2', no staining.	
М	180	27.6	Υ		1 -	1			
	100	27.0	·					At 3', color change to lig	tht brown, no odor.
					_	_			
					_	_		At 4' color change to da	rk brown.
М	1,260	9.9	N		2	2			
	1,200	3.5							
					_	<u> </u>			
					_	<u></u>			
М	2,552	14.5	N	BH04	3	3			
171	2,332	14.5	IN	D1104					
					_	<u> </u>			
					_	<u></u>			
М	1,772	20.2	N	BH04	4	4	TD	Total depth at 4' bgs.	
IVI	1,//2	20.2	IN	впо4	-	- 4	טו	Total depth at 4 bgs.	
					_	_			
					_	<u> </u>			
					-	-			
					_	_			
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					-	+			
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						<u> </u>			

							1	Sample Name: BH05	Date: 1-25-2022
	72		N	S	OL	U	M	Site Name: Ross Draw Unit #01	
_	- 1						1. South	Incident Number: nAPP220072	8/55 & nAB1/12951426
				. / 6011 6				Job Number: 03A1987006	<u> </u>
					AMPLING	LOG		Logged By: MR	Method: Hand Auger
				3.867092°				Hole Diameter: 4"	Total Depth: 4'
			-				•	PID for chloride and vapor, respectors included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
]	_ O	SP-SM	0-4', SAND, dry, dark bro silt, no staining, no o	wn, poorly graded with odor.
					-	-		At 2', color change to ligh	nt brown.
М	152	0.1	N	BH05	1	_ 1			
					-	-			
					-	- -			
M	<128	0.1	N		2	2			
					_	-			
М	<128	0.1	N		- 3	- - 3			
1 1	1120	0.1	.,		- -	- -			
					-	<u>-</u>			
M	<128	0.1	N	BH05	4 _	4	TD	Total depth at 4' bgs.	_
					_	- -			
					-	- -			
					-	-			
					-	- -			
					- -	- -			
					- -	- -			
					_ 	-			
					_ -	_ -			
					- -	- -			
					<u>-</u>	-			

								Sample Name: BH06	Date: 1-25-2022
	-1							Site Name: Ross Draw Unit #011	Date: 1-23-2022
	70.		N	5	OL	. U	M	Incident Number: nAPP22007287	55 & nΔR1712951/126
_								Job Number: 03A1987006	33 & HABI7 12331420
		ITHOL)GIC	' / SOIL S	AMPLING	LOG		Logged By: MR	Method: Hand Auger
Coordi				3.866911°		100		Hole Diameter: 4"	Total Depth: 4'
						loride Test S	Strips and	PID for chloride and vapor, respec	· ·
								factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
						0	SP-SM	0-4', SAND, dry, dark brown silt, no staining, no odd	n, poorly graded with or.
М	488	0.1	N	BH06	1 -	_ 1 		At 3', color change to light b	orown.
М	444	0	N		2 _	2 			
М	444	0.9	N		3 <u>-</u> -	- _ 3 - -			
M	356	0.4	N	вн06	4 -	- 4 - 4 	TD	Total depth at 4' bgs.	
					- - -	- - -			

773								Sample Name: BH07	Date: 2-18-2022
	7							Site Name: Ross Draw Unit #011	Date: 2 10 2022
				5	OL			Incident Number: nAPP220072875	5 & nAR1712951426
	7							Job Number: 03A1987006	5 Q 11/1017 12551420
		LITHOL	OGI	^ / SOIL S	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				03.866818		1100		Hole Diameter: 4"	Total Depth: 4'
						Ilorida Tast 9	Strins and	PID for chloride and vapor, respecti	
								factors included.	very. emoriae test
a)				0			¥		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
10isture Content	Chlorid (ppm)	Vapor (ppm)	ain	μp	Depth	(ft bgs)	cs/ ym	Lithologic Desc	criptions
ΣÖ	C)		St	Saı	(ft bgs)	, 0,	USO		
		0.4		55	I	0	CCHE	0-1',CALICHE, dry, light brow	n-brown, well graded,
D	588	0.1	N	BH07	0.5	-		very fine-fine grain, no	stain, no odor.
					_	_			
					_	_			
D	<128	0.7	N		1 -	1	SP-SM	1-3',SAND, dry, brown, poor	ly graded with silt,
					_	-		very fine-fine grain, no	stain, no odor.
					-	_			
					_	-			
D	<128	0.2	N		2	2			
	\120	0.2	1		_				
					_	_			
					-	-			
					_	3	CCHE	3-4',CALICHE, dry, light brow very fine-medium grain	n-brown, well graded,
					_	-		very inte-mediani grani	, no stain, no odor.
					_	_ -			
					_	_			
D	444	0.2	Ν	BH07	4	4	TD	Total depth at 4' bgs.	
					-	-			
						-			
					_	_			
					-	-			
					_	-			
					-	_			
					-	-			
					-	-			
					-	_			
						_			
					-	-			
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					-	<u>-</u>			
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					-	_			
					-				

								I	
0	- 8							Sample Name: BH08	Date: 2-18-2022
			N	S	OL		M	Site Name: Ross Draw Unit #	
	- 190							Incident Number: nAPP2200	728755 & nAB1712951426
								Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866896°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, refactors included.	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	_	c Descriptions
D	444	0.1	N	BH08	0.5 <u>-</u>	0 - -	CCHE	0-1',CALICHE, dry, light very fine-fine grair	brown-brown, well graded, n, no stain, no odor.
D	152	0.1	Ν		1 _	_ _ _ 1 -	SP-SM	1-3',SAND, dry, brown, very fine-fine graii	poorly graded with silt, n, no stain, no odor.
D	<128	0.1	Ν		2 <u>-</u> - - -	_ 2 _ 2 - -			
5	~1 20	0.1		DUIGO	- - - -	- 3 - 3 	TD.	Total donth at 4' bgs	
D	<128	0.1	Z	BH08	4	- 4 	TD	Total depth at 4' bgs.	

550								Sample Name: BH09	Date: 2-18-2022
								Site Name: Ross Draw Unit #011	2440.2 20 2022
		-			OL	_ U	V	Incident Number: nAPP22007287	55 & nAB1712951426
100	70							Job Number: 03A1987006	
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.867253°				Hole Diameter: 4"	Total Depth: 4'
						loride Test S	Strips and	PID for chloride and vapor, respec	,
								factors included.	
				0			~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
oist	Chloride (ppm)	Vapor (ppm)	ain	mpl	Depth	(ft bgs)	CS/ yml	Lithologic De	scriptions
ΣÖ	C))	St	Saı	(ft bgs)	, ,	USO		
						0	SP-SM	0-4',SAND, dry, brown, poo	rly graded with silt,
D	444	0.5	N	BH09	0.5	-		very fine-fine grain, no	o stain, no odor.
					_	 - -			
					_	_			
D	820	0.9	N		1 _	_ 1			
						-			
					_	_			
					_	-			
D	1,360	0.8	N		2	2			
	1,000	0.0	.,			 -			
					_	_			
					_	-			
					-	3		At 2' color change to light	brown brown
					_	_ 3		At 3', color change to light	brown-brown.
					_	- -			
					_	= =			
						- 			
D	756	1.8	N	BH09	4 _	_ 4	TD	Total depth at 4' bgs.	
					_	- -			
					-	-			
					_	_			
					_	- -			
					-	-			
					_	- -			
					_	_			
					-	<u>-</u>			
						-			
					-	-			
						<u>-</u>			
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						- -			
					_	_			
					<u>-</u>	-			
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<u> </u>									

r::								Sample Name: BH10	Date: 2-18-2022
								Site Name: Ross Draw Unit #011	2310. 2 10 2022
	20.		N	5	O	U	M	Incident Number: nAPP22007287	55 & nΔR1712951426
_	77							Job Number: 03A1987006	33 & 11/1D17 12331420
		ITHOL)GIC	· / SOIL S	AMPLING	ine		Logged By: GM	Method: Hand Auger
Coord				3.867331°	AIVII LIIVO	100		Hole Diameter: 4"	Total Depth: 4'
					ith HACH Ch	loride Test '	Strins and	PID for chloride and vapor, respec	1
			_					factors included.	ervery. Cilionae test
				-			~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Aoisture Content	Chlorid (ppm)	Vapor (ppm)	ain	ldu	Depth	(ft bgs)	/I	Lithologic Des	scriptions
žΰ) (/)	St	Sar	(ft bgs)	(10.080)	US(
					1	0	SP	0-1',SAND, dry, brown, poo	rly graded,
D	280	0.5	N	BH10	0.5	-		very fine-fine grain, no	stain, no odor.
					<u>-</u>	_			
					_	Ĺ			
D	<128	0.9	N		1 -	1	SP-SM	1-3', SAND, dry, reddish bro	own-brown, poorly
					_	[graded with silt, very fi	ne-fine grain, no stain,
					-	_		no odor.	
					_	_			
D	2,224	0.8	N		2	2			
	2,224	0.0			_				
					-	_			
					-	-			
					_	-			
					_	_ 3	SM	3-4', SILTY SAND, dry, tan-li	ght brown, fine-
					-	-		medium grain, no staii	n, no odor.
					_	-			
					_	_			
D	11,016	1.8	Ν	BH10	4	4	TD	Total depth at 4' bgs.	
					-	-			
					_	_			
					_	_			
					-	-			
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					_	_			
					=	_			
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							ISampie Name: RH11	Date: 2-18-2022
				~ I			Sample Name: BH11 Site Name: Ross Draw Unit #011	Date: 2-18-2022
(American)	=	N	5	OL	U	V	Incident Number: nAPP220072875	55 & nAR1712051426
10.							Job Number: 03A1987006	75 & HAB1712551420
11	THOLO	GIC	/ SOIL S	AMPLING	LOG		Logged By: GM	Method: Hand Auger
Coordinates: 32.0				AIVII LIIVO	100		Hole Diameter: 4"	Total Depth: 4'
				ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	
performed with 1								,
		I				~		
Moisture Content Chloride (ppm)	ر ت آ	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Aoisture Content Chloride (ppm)	Vapor (ppm)	ain	ημ	Depth	(ft bgs)	CS/ yml	Lithologic Des	criptions
∑ 3 5 0		St	Sal	(ft bgs)	, ,	US		
				1	0	SP	0-3', SAND, dry, brown, poo very fine-fine grain, no	rly graded,
D <128	2.2	N	BH11	0.5	-		very fine-fine grain, no	stain, no odor.
				-	- -			
				_	_			
D <128	4.3	N		1	_ 1			
				-	-			
				-	_			
				_	_			
D 120	2.3	N		2	_ 2			
					-			
				-	_			
				-	-			
				-	3	CCHE	3-4', CALICHE, dry, tan, well	graded fine-
				-	_	CCITE	medium grain, no stair	n, no odor.
				_	_			
				_	_			
D 3.100	4.2	N.	DUI11	4		TD	Total double at Alban	
D 2,188	4.3	N	BH11	4 _	_ 4	TD	Total depth at 4' bgs.	
				-	-			
				-	-			
					_			
				_	_			
				=	-			
				_	-			
				-	-			
					-			
				_	-			
				-	<u> </u>			
				4	<u> </u>			
				=	<u> </u>			
				-	-			
				4	-			
				-	- -			
				-	_			

							1 400	Sample Name: BH12	Date: 2-28-2022
	25,		N	S	OL		M	Site Name: Ross Draw Unit #01	
_	77						3. South	Incident Number: nAPP220072	8/55 & nAB1/12951426
		UTU OL	2016	. / 60!! 6		100		Job Number: 03A1987006	I
					AMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866964°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, resp factors included.	pectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	•
D	1,556	0.3	N		0.5 <u> </u>	_ 0 -	SW-SM	0-1', SAND, dry, brown, w very fine-fine grain,	vell graded with silt, no stain, no odor.
D	1,780	0.4	N		1 -	_ _ 1 -	SP-SM	1-4', SAND, dry, brown, p very fine-fine grain,	oorly graded with silt, no stain, no odor.
D	2,200	0.9	N	BH12	2 <u>-</u> - -	- - - -			
					- - - - -	- _ 3 - - -			
D	1,556	0.3	N	BH12	4	- 4 	TD	Total depth at 4' bgs.	

								Sample Name: BH13	Date: 2-28-2022
	7							Site Name: Ross Draw Unit #011	Date: 2 20 2022
			N	5	O	U	V	Incident Number: nAPP22007287	55 & nΔR1712951426
	77							Job Number: 03A1987006	33 & 11/(31/12331120
		ITHOL	OGIC	' / SOIL S	AMPLING	ilog		Logged By: GM	Method: Hand Auger
Coord				3.867308°	AIVII LIIVO	100		Hole Diameter: 4"	Total Depth: 4'
					rith HACH Ch	loride Test '	Strins and	PID for chloride and vapor, respec	· ·
			_					factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
D	142	N/A	N		0.5	<u> </u>	SP	0-2', SAND, dry, brown, poo fine-fine grain, organic	orly graded, very s, no stain, no odor.
					- - -	- - -		Note: PID not calibrating. O chlorides.	nly screening for
D	1,360	N/A	N		1 _	_ 1		At 1', some silt.	
D	2,840	N/A	N	BH13	2	_ _ _ 2 _ _	SW-SM	2-3', SAND, dry, brown, wel very fine- fine grain, no	l graded with silt, o stain, no odor.
					- - - -	- 3 - -	CCHE	3-4', CALICHE, dry, light bro fine-fine grain, no staii	wn, well graded, very n, no odor.
D	4,884	N/A	Z	BH13	4 -	- 4 	TD	Total depth at 4' bgs.	

								Sample Name: BH14	Date: 2-28-2022
								Site Name: Ross Draw Unit #011	Date: 2 20 2022
			N	5	OI	U	V	Incident Number: nAPP22007287	55 & nAR1712051426
	77							Job Number: 03A1987006	33 & HABI7 12331420
		ITHOL)GIC	' / SOIL S	AMPLING	ilog		Logged By: GM	Method: Hand Auger
Coord				3.867406°	AIVII EIIVO			Hole Diameter: 4"	Total Depth: 4'
					ith HACH Ch	nloride Test S	Strips and	PID for chloride and vapor, respec	'
								factors included.	,
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	·
D	360	N/A	N	BH14	0.5 <u> </u>	0	SP	0-4', SAND, dry, brown, poo fine-fine grain, organic	orly graded, very s, no stain, no odor.
D	<120	N/A	N		1 -	1		NOTE: PID not calibrating. C chlorides.	Only screening for
D	<120	N/A	Ν		2 <u>-</u> 2 <u>-</u> -	2			
					- - - - -	3		At 4', some silt.	
D	120	N/A	N	BH14	4	4	TD	Total depth at 4' bgs.	

								Sample Name: BH15	Date: 2-28-2022
	-7							Site Name: Ross Draw Unit #011	Date: 2 20 2022
ENSOLUM							Incident Number: nAPP2200728755 & nAB1712951426		
							Job Number: 03A1987006		
							Logged By: GM	Method: Hand Auger	
·							Hole Diameter: 4"	Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and								·	
performed with 1:4 dilution factor of soil to distilled water. No correction factors included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	<120	N/A	N	BH15	0.5 <u>-</u> -	0	SP	0-3', SAND, dry, brown, poorly graded, very fine-fine grain, organics, no stain, no odor.	
D	<120	N/A	N		1 _	_ 1 -		NOTE: PID not calibrating. Only screening for chlorides.	
D	<120	N/A	Ν		2	- - 2 -			
					- - - - -	- _ 3 - -	SW	3-4', SAND, dry, light browr fine-fine grain, no stair	n, well graded, very n, no odor.
D	<120	N/A	N	BH15	4	4	TD	Total depth at 4' bgs.	

								Sample Name: BH16	Date: 2-28-2022
								Site Name: Ross Draw Unit #011	Dutc. 2 20 2022
			N	5	O	U	V	Incident Number: nAPP22007287	55 & nΔR1712951426
	77							Job Number: 03A1987006	33 4 11/12/31/120
		ITHOL	OGIC	' / SOIL S	AMPLING	ilog		Logged By: GM	Method: Hand Auger
Coord				3.867375°		100		Hole Diameter: 4"	Total Depth: 4'
						loride Test '	Strins and	PID for chloride and vapor, respec	·
								factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	scriptions
D	<120	N/A	Ν		0.5 <u> </u>	0 - -	SP	0-3', SAND, dry, brown, poo fine-fine grain, organic	orly graded, very s, no stain, no odor.
D	1,360	N/A	N		1 _	_ _ 1		NOTE: PID not calibrating. C chlorides.	Only screening for
D	1,556	N/A	Ζ	BH16	2	- - - 2 - -			
					- - - - -	- _ 3 - -	SW-SM	3-4', SAND, dry, tan-light br silt, very fine-fine grain	rown, well graded with , no stain, no odor.
D	3,076	N/A	N	BH16	4	4 - - - - - - - - - - - - -	TD	Total depth at 4' bgs.	

								Sample Name: BH17	Date: 2-28-2022
	21							Site Name: Ross Draw Unit #011	Dute. 2 20 2022
			N	5	OL	J	M	Incident Number: nAPP220072875	55 & nΔR1712951426
100	70							Job Number: 03A1987006	33 & 11/1827 12331 120
		ITHOL	OGIC	' / SOIL S	AMPLING	LOG		Logged By: GM	Method: Hand Auger
Coord				3.867514°		100		Hole Diameter: 4"	Total Depth: 4'
						loride Test 9	Strins and	PID for chloride and vapor, respec	
								factors included.	erreit, reinerrae test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
D	<120	N/A	N		0.5	0	SP	0-3', SAND, dry, brown, poo fine-fine grain, organics	orly graded, very s, no stain, no odor.
					_ 	- - -		At 1', no organics.	
D	<120	N/A	N		1 _	1		NOTE: PID not calibrating. C chlorides.	Only screening for
					-	-			
D	888	N/A	N	BH17	2	2			
					- -	- - -			
					_ -	- - 3	SW-SM	3-4', SAND, dry, light brown	well graded with
					-	- - -		silt, very fine-fine grain	, no stain, no odor.
					- -	- - -			
D	6,160	N/A	N	BH17	4 _	_ 4 -	TD	Total depth at 4' bgs.	
					-	-			
					-	- -			
					-	- -			
					_	-			
					-	- -			
					- -	- -			
					- - -	-			
					- -	- - -			
					-	-			

								Sample Name: PHO1	Dato: 2.2.2022
								Sample Name: BH01 Site Name: Ross Draw Unit #011	Date: 3-3-2022
			N	5	OL	U	M	Incident Number: nAB1728551205	5 & nAR1728552778
	79							Job Number: 03A1987006	J & HAB1720333770
		LITHOL	OGI	^ / SOIL 9	SAMPLING	106		Logged By: GM	Method: Hand Auger
Coord				3.866550°		100		Hole Diameter: 4"	Total Depth: 4'
						Inride Test 9	Strins and	PID for chloride and vapor, respect	,
								factors included.	ivery. emorrae test
							~		
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
oist ont	Chloride (ppm)	Vapor (ppm)	ain	ηpl	Depth	(ft bgs)	SS/l	Lithologic Des	scriptions
žΰ	7)	/)	St	Sar	(ft bgs)	(10.080)	US(
D	6,160	1.5	N		0.5	0	SP	0-1',SAND, dry, brown, poo very fine-fine grain, no	rly graded, stain, no odor.
					_	- -			
					_	_			
D	6,160	1	Ν		1]	_ 1	SP-SM	1-4',SAND, dry, brown, poo	rly graded with silt,
					-	-		very fine-fine grain, no	stain, no odor.
					_	-			
					_	_			
D	6,664 0.8 N BH01 2 1 2								
						<u>.</u>			
					-	-			
					_	_ -			
					-	3			
						-			
					-	-			
	7.004	4.4	.	51104	_	-		T	
D	7,824	1.1	N	BH01	4 _	_ 4	TD	Total depth at 4' bgs.	
					_	- -			
					-	-			
						-			
					-	_			
						- -			
					-	-			
					_	- -			
					-	_			
					-	-			
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						- -			
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					4	-			
					-	-			

9								Sample Name: BH02	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #0	
	7/1						1 6-4	Incident Number: nAB172855	51205 & nAB1728553778
								Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866665°				Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, restactors included.	spectively. Chloride test
							~		
ure	de رر	ت (-	Staining	Sample ID	Sample	Depth	tock		
Moisture Content	Chloride (ppm)	Vapor (ppm)	aini)du	Depth	(ft bgs)	SCS/Roc Symbol	Lithologic	Descriptions
ΣΩ	Ch (F	> =	Sta	San	(ft bgs)	(It bgs)	USCS/Rock Symbol		
					1	0	SP	0-1',SAND, dry, brown,	poorly graded.
D	3,076	0.4	Ν	BH02	0.5	-		very fine-fine grain	n, no stain, no odor.
					-	-			
						<u>-</u>			
D	1,664	0.4	N		1	1	SD-SN/I	 1-4',SAND, dry, brown,	noorly graded with silt
	1,004	J. +	14			<u> </u>	الاال- ال	very fine-fine grain	n, no stain, no odor.
					-	_			
					-	-			
	4 453	0.5							
D	1,452	0.5	N		2	_ 2			
					_	- -			
					-	-			
					_	_			
					_	_ 3			
					-	-			
						- -			
					_	<u>-</u>			
D	9,244	0.6	N	BH02	4	4	TD	Total depth at 4' bgs.	
1						<u>-</u>			
					-	_			
						-			
					-	 -			
						_ -			
					-	_			
					-	-			
						-			
					_	_			
					_	- -			
]	-			
					_	_			
						<u>-</u>			
					-	-			
4						-			
					_	_			
					-	-			

								Sample Name: BH03	Date: 3-3-2022	
								Site Name: Ross Draw Unit #01:		
			N	5	OL	U	M	Incident Number: nAB17285512		
	76							Job Number: 03A1987006	203 & HAD1720333770	
		LITHOL	OGI	^ / SOIL 9	SAMPLING	106			Method: Hand Auger	
Coord				03.866854		100		Logged By: GM Hole Diameter: 4"	Total Depth: 4'	
I						Inride Test 9	Strins and	PID for chloride and vapor, response	·	
								factors included.	ectively. Cilionae test	
							~			
Moisture Content	Chloride (ppm)	or n)	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol	Lithologic Descriptions		
Moisture Content	Chloride (ppm)	Vapor (ppm)	ain	ηdμ	Depth	(ft bgs)	SS/F	Lithologic D	escriptions (
ğΰ	72	<i>></i> _	St	Sar	(ft bgs)	(10.283)	US(S)			
					1	0	SP	0-1',SAND, dry, brown, po	oorly graded,	
D	<120	0.4	N		0.5	-		very fine-fine grain, i	no stain, no odor.	
					_	- -				
					_	- -				
D	252	0.3	N		1 -	- 1	SP-SM	1-2',SAND, dry, brown, po	oorly graded with silt,	
					-	-		very fine-fine grain, i	no stain, no odor.	
					_	_				
					-	<u>-</u>				
D	1,556	0.3	N	BH03	2	. 2	SW-SM	2-4',SAND, dry, brown, we	ell graded with silt.	
	1,550	0.5		21100			011	very fine-fine grain, i	no stain, no odor.	
					_	_				
					-	<u>-</u>				
					-	<u> </u>				
					_	_				
					_	_				
					-	_				
	7 210	0.0	N.	DUO		-	TD	Total double at 41 has		
D	7,216	0.9	N	BH03	4 _	_ 4	TD	Total depth at 4' bgs.		
					_	- -				
					-	-				
						-				
					_	_				
					-	<u>-</u>				
					-	-				
					-	- -				
						_				
					-	-				
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					-	_				
						<u>-</u>				
					-	-				
						- -				
					-	_				
					-	•				

								T	
9	- 5							Sample Name: BH05	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #	
	7						1 B. 6	Incident Number: nAB17285	51205 & nAB1728553778
								Job Number: 03A1987006	
				_	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866836°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, refactors included.	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
D	<120	2.6	N	BH05	0.5 <u>-</u>	<u> </u>	SP	0-4',SAND, dry, brown, very fine-fine grai	poorly graded, n, no stain, no odor.
D	<120	4	N		1 - - -	- - - 1 - -			
D	<120	3.6	N		2 <u>-</u> - -	- - 2 - -			
D	<120	4.3	Z	BH05	- - - - - 4	- 3 - 3 4	TD	Total depth at 4' bgs.	
	1120	4.5	IV	БПОЗ	4	4	טו	Total depth at 4 bgs.	

								Sample Name: BH06	Date: 3-3-2022
								Site Name: Ross Draw Unit #011	Date. 3-3-2022
			N	5	OL			Incident Number: nAB172855120	15 & nAR1728552770
_	(1)						3021		3 & HAB1720333770
I		LITUO	001	· / sou s	SAMPLING	106		Job Number: 03A1987006	Mathada IIand Arren
CI						LUG		Logged By: GM	Method: Hand Auger Total Depth: 4'
				3.866931°		lawida Taak C	`*:	Hole Diameter: 4"	· ·
								PID for chloride and vapor, respec factors included.	tively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	
D	144	0.7	N	вн06	0.5 <u> </u>	_ O	SP	0-4',SAND, dry, brown, poo very fine-fine grain, no	orly graded, o stain, no odor.
D	<120	0.8	Ν		1 - - -	- - - 1 - -			
D	<120	1.7	N		2 - - -	- 2 -			
	420	2.0		BUIGG		3	F	Tabal dankle at 41 has	
D	<120	2.9	Z	BH06	4 _	_ 4 	TD	Total depth at 4' bgs.	

0	8							Sample Name: BH07	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #03	
							h.d.	Incident Number: nAB1728553	1205 & nAB1728553778
								Job Number: 03A1987006	-
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866833°				Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, respactors included.	pectively. Chloride test
P 00.		I							
Moisture Content	Chloride (ppm)	r (r	Staining	Sample ID	Sample	Depth	USCS/Rock Symbol		
Aoisture Content	Chloride (ppm)	Vapor (ppm)	ain	ldu	Depth	(ft bgs)	.s/l	Lithologic	Descriptions
Σ	5)		St	Sar	(ft bgs)	(10.080)	US(S		
	.425	4.0		DUGT		0	SP	0-4',SAND, dry, brown, p	oorly graded,
D	<120	1.8	N	BH07	0.5	-		very fine-fine grain,	no stain, no odor.
					T .	-			
					-	-			
D	<120	1.9	Ν		1	_ 1			
					-	-			
					_	-			
					_	_			
D	<120	2.1	Ν		2	_ 2			
					-	=			
					_	-			
					-	_			
					-	_ 3			
					-	-			
					_	-			
					-	_			
D	120	2.3	Ν	BH07	4	4	TD	Total depth at 4' bgs.	
					-	=			
					_	-			
					-	_			
					-	-			
					-	-			
					1	-			
					_	_			
						<u>-</u>			
					-	-			
						- -			
					-	_			
						<u>-</u>			
					-	-			
						- -			
						_			
					-	-			

									<u> </u>
0	- 5							Sample Name: BH08	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #01	
10	200						1.0-4	Incident Number: nAB1728551	.205 & nAB1728553778
								Job Number: 03A1987006	
					SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.867002°				Hole Diameter: 4"	Total Depth: 4'
								PID for chloride and vapor, resp factors included.	ectively. Chloride test
perior	med witi	1 1.4 ullul	LIOII I	actor or sor	i to distilled	water. No co	Jirection	actors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Descriptions
D	<120	1.3	Ν	BH08	0.5	<u> </u>	SP	0-4',SAND, dry, brown, po very fine-fine grain,	oorly graded, no stain, no odor.
D	<120	1.4	N		1 - - -	- - - - 1 - -			
D	<120	1.9	N		2	- - - - - - 3			
D	<120	3.6	Z	BH08	4	4	TD	Total depth at 4' bgs.	

								T	
0	- 5							Sample Name: BH09	Date: 3-3-2022
			N	S	OL			Site Name: Ross Draw Unit #	
	7						1 b. 6	Incident Number: nAB17285	51205 & nAB1728553778
								Job Number: 03A1987006	
				_	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866859°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, refactors included.	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
D	<120	1.1	N	BH09	0.5 <u> </u>	0	SP	0-4',SAND, dry, brown, very fine-fine graii	poorly graded, n, no stain, no odor.
D	<120	1.5	Ν		1 _ - -	- - - 1 -			
D	<120	1.7	Ν		2 <u>-</u> - -	- _ 2 -			
2	160	1	N	BUIGO		- - - -	TD	Total double at 41 has	
D	168	1	N	ВН09	4 -	4	TD	Total depth at 4' bgs.	

								T	
6	8							Sample Name: BH10	Date: 3-3-2022
			N	S	OL		M	Site Name: Ross Draw Unit #	
	1						1 B. 6	Incident Number: nAB17285	51205 & nAB1728553778
								Job Number: 03A1987006	
				_	SAMPLING	LOG		Logged By: GM	Method: Hand Auger
				3.866730°				Hole Diameter: 4"	Total Depth: 4'
			_					PID for chloride and vapor, refactors included.	espectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
D	<120	1.7	N	BH10	0.5 <u> </u>	0	SP	0-4',SAND, dry, brown, very fine-fine graii	poorly graded, n, no stain, no odor.
D	<120	3.2	Ν		1 _ - -	- - - 1 -			
D	<120	3.2	N		2 -	- - 2 - -			
2	-120	4.2	N	DU40	- - - - -	3 - - -	F-	Takal alambh at 41 han	
D	<120	4.2	N	BH10	4 -	4	TD	Total depth at 4' bgs.	



APPENDIX D

Photographic Log



Photographic Log

WPX Energy Permian, LLC.
Ross Draw Unit #011 - Project Location
Ensolum Job Number: 03A1987006





Photograph 1

Date: January 25, 2022

Description: View of the Site during delineation activities

Photograph 2

Date: January 25, 2022

Description: View of the Site during delineation activities



Photograph 3

Date: February 28, 2022

Description: View of the Site during delineation



Date: March 3, 2022

Description: View of the Site during delineation activities



APPENDIX E

Tables

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 **Eddy County, New Mexico**

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delinea	tion Soil Sample An	alytical Results				
				Incident Num	ber: nAB1712951426	and nAPP22072875	5			
BH01	1/25/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,490
BH01	1/25/2022	4	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	1,320
BH02	1/25/2022	1	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	15.7
BH02	1/25/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	11.2
BH03	1/25/2022	3	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	2,570*
BH03	1/25/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,420
BH04	1/25/2022	3	<0.00202	<0.00403	<49.9	68.8	<49.9	68.8	68.8	3,320*
BH04	1/25/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	2,610
BH05	1/25/2022	2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	134
BH05	1/25/2022	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	35.6
BH06	1/25/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	601
BH06	1/25/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	464
BH07	2/18/2022	0.5	<0.00199	<0.00398	<50.0	81.7	<50.0	81.7	81.7	582
BH07	2/18/2022	4	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	510
BH08	2/18/2022	0.5	<0.00200	<0.00399	<50.0	108	<50.0	108	108	492
BH08	2/18/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
BH09	2/18/2022	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	365
BH09	2/18/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	347
BH10	2/18/2022	0.5	<0.00200	<0.00399	<250	1,660	<250	1,660	1,660	906*
BH10	2/18/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18,000
BH11	2/18/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	135
BH11	2/18/2022	4	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	3,220
BH12	2/28/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,610
BH12	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,360
BH13	2/28/2022	2	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	4,430*
BH13	2/28/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	7,260

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Received by OCD: 6/5/2024 11:43:43 AM



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 Eddy County, New Mexico

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
BH14	2/28/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	464
BH14	2/28/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	115
BH15	2/28/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	77.5
BH15	2/28/2022	4	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	21.4
BH16	2/28/2022	2	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	1,940*
BH16	2/28/2022	4	< 0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	4,650
BH17	2/28/2022	2	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	1,090*
BH17	2/28/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8,280
				Incident Num	ber: nAB1728551205	and nAB1728553778	3			
BH01	3/3/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8,700*
BH01	3/3/2022	4	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	9,220
BH02	3/3/2022	0.5	<0.00198	<0.00397	<49.9	<49.9	<49.9	<49.9	<49.9	4,300*
BH02	3/3/2022	4	< 0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	8,350
BH03	3/3/2022	2	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	3,310*
BH03	3/3/2022	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	62.6
BH04	3/3/2022	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	45.3
BH04	3/3/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	29.1
BH05	3/3/2022	0.5	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	5.80
BH05	3/3/2022	4	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	62.6
BH06	3/3/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97
BH06	3/3/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	63.4
BH07	3/3/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	5.01
BH07	3/3/2022	4	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	130
BH08	3/3/2022	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	5.90
BH08	3/3/2022	4	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	57.1

Ensolum

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS WPX Energy Permian, LLC. - Ross Draw Unit #011 Eddy County, New Mexico

Ensolum Project No. 03A1987006

Sample Name	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 (Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
BH09	3/3/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	10.4
BH09	3/3/2022	4	< 0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	174
BH10	3/3/2022	0.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	5.95
BH10	3/3/2022	4	<0.00199	<0.00398	<50.0	70.6	<50.0	70.6	70.6	34.6

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics
DRO: Diesel Range Organics

MRO: Motor Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria and/or reclamation requirement for Soils

Impacted by a Release

* - indicates top 4 feet in the pasture area impacted by the release, NMAC 19.15.29.13. D (1)

that will be reclaimed following remediation.

Ensolum



APPENDIX F

Laboratory Analytical Reports & Chain-of-Custody

Documentation

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1876-1

Laboratory Sample Delivery Group: Eddy

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 2/3/2022 12:01:30 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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Client: WSP USA Inc.

Project/Site: RDU 11

Laboratory Job ID: 890-1876-1

SDG: Eddy

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11

SDG: Eddy

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery **CFL** Contains Free Liquid **CFU** Colony Forming Unit **CNF** Contains No Free Liquid

Duplicate Error Ratio (normalized absolute difference) **DER**

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)

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

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

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number Method Quantitation Limit MQL

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 QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RI Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Job ID: 890-1876-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1876-1

Receipt

The samples were received on 1/26/2022 4:08 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

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: BH05 (890-1876-9), BH05 (890-1876-10), BH06 (890-1876-11), (890-1883-A-1-C MS) and (890-1883-A-1-D MSD). Evidence of matrix interferences is not obvious.

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 880-18029 and analytical batch 880-18094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: WSP USA Inc.

%Recovery Qualifier

81

90

Job ID: 890-1876-1

Lab Sample ID: 890-1876-1

Prepared

Analyzed

Lab Sample ID: 890-1876-2

01/31/22 11:10 02/01/22 11:34

01/31/22 11:10 02/01/22 11:34

SDG: Eddy

Matrix: Solid

Client Sample ID: BH01

Date Collected: 01/25/22 09:10

Date Received: 01/26/22 16:08

Sample Depth: 1

Project/Site: RDU 11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Toluene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 14:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130			01/28/22 12:00	01/28/22 14:28	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/28/22 12:00	01/28/22 14:28	1
Method: Total BTEX - Total B Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total BTEX	<0.00402	Qualifier U	0.00402	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/02/22 16:52	Dil Fac
Analyte	Result <0.00402	Qualifier U	0.00402		<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00402	Qualifier U s (DRO) (Qualifier	0.00402 GC)	mg/Kg			02/02/22 16:52	Dil Fac Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result <0.00402 nge Organic Result <50.0	Qualifier U s (DRO) (O Qualifier U	0.00402 GC) RL 50.0	mg/Kg			02/02/22 16:52 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ral Analyte Total TPH	Result <0.00402 nge Organic Result <50.0	Qualifier U s (DRO) (O Qualifier U	0.00402 GC) RL 50.0	mg/Kg			02/02/22 16:52 Analyzed	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00402 nge Organic Result <50.0	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier	0.00402 GC) RL 50.0	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	02/02/22 16:52 Analyzed 01/31/22 13:14	1
Analyte Total BTEX Method: 8015 NM - Diesel Ral Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00402 nge Organic Result <50.0 ange Organic Result	Qualifier U S (DRO) (C Qualifier U ics (DRO) Qualifier U	0.00402 Columbia	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	02/02/22 16:52 Analyzed 01/31/22 13:14 Analyzed 02/01/22 11:34	Dil Fac

Limits

70 - 130

70 - 130

Client Sample ID: BH01

Date Collected: 01/25/22 09:24

Date Received: 01/26/22 16:08

Sample Depth: 4

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			01/28/22 12:00	01/28/22 14:48	1
1.4-Difluorobenzene (Surr)	101		70 - 130			01/28/22 12:00	01/28/22 14:48	1

Eurofins Carlsbad

Dil Fac

Matrix: Solid

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH01

Lab Sample ID: 890-1876-2

01/31/22 11:10 02/01/22 11:56

Matrix: Solid

Date Collected: 01/25/22 09:24 Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401 U	U	0.00401	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Ran	ige Organics	s (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 11:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 11:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 11:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analvzed	Dil Fac

o-Terphenyl 92 70 - 130 01/31/22 11:10 02/01/22 11:56 Client Sample ID: BH02 Lab Sample ID: 890-1876-3

70 - 130

Date Collected: 01/25/22 09:32

81

Date Received: 01/26/22 16:08

Sample Depth: 1

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/28/22 12:00	01/28/22 16:12	1
1,4-Difluorobenzene (Surr)	103		70 - 130			01/28/22 12:00	01/28/22 16:12	1

Method: Total BTEX - Total BT	TEX Calculat	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/02/22 16:52	1

Method: 8015 NM - Diesel Ran	ge Organic	s (DRO) (G	iC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1

Total TPH	<50.0 U	50.0	mg/Kg			01/31/22 13:14	1
Method: 8015B NM - Diesel	Range Organics (DRO)	(GC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0 U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:18	1

Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/31/22 11:10 02/01/22 12:18 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 01/31/22 11:10 02/01/22 12:18

Eurofins Carlsbad

Matrix: Solid

2/3/2022

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH02

Lab Sample ID: 890-1876-3 Date Collected: 01/25/22 09:32 Date Received: 01/26/22 16:08

Matrix: Solid

Sample Depth: 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79	70 - 130	01/31/22 11:10	02/01/22 12:18	1
o-Terphenyl	90	70 - 130	01/31/22 11:10	02/01/22 12:18	1

Lab Sample ID: 890-1876-4 Client Sample ID: BH02 Date Collected: 01/25/22 09:50

Matrix: Solid

Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		01/28/22 12:00	01/28/22 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			01/28/22 12:00	01/28/22 16:32	1
1,4-Difluorobenzene (Surr)	101		70 - 130			01/28/22 12:00	01/28/22 16:32	1

Method: Total BTEX - Total BTE	X Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			02/02/22 16:52	1
_								

Method: 8015 NM - Diesel Range	Organic	:s (DRO) (G0	3)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1

Method: 8015B NW - Diesei Ran	ige Organi	ICS (DRU) (U	3C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 12:40	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	01/31/22 11:10	02/01/22 12:40	1
o-Terphenyl	86	70 - 130	01/31/22 11:10	02/01/22 12:40	1

Lab Sample ID: 890-1876-5 **Client Sample ID: BH03** Date Collected: 01/25/22 10:08 **Matrix: Solid**

Date Received: 01/26/22 16:08

Sample Depth: 3

Method: 8021B - Volatil	e Organic Compou	ınds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 16:53	1

Eurofins Carlsbad

2/3/2022

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

Lab Sample ID: 890-1876-5

Matrix: Solid

Client Sample ID: BH03

Date Collected: 01/25/22 10:08 Date Received: 01/26/22 16:08

Sample Depth: 3

Project/Site: RDU 11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/28/22 12:00	01/28/22 16:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/28/22 12:00	01/28/22 16:53	1
1,4-Difluorobenzene (Surr)	75		70 - 130			01/28/22 12:00	01/28/22 16:53	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 16:52	
				9/9				
	nge Organic	s (DRO) (0		9/1.9				
Method: 8015 NM - Diesel Ra	-	s (DRO) (O		Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH	-	Qualifier	GC)		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte	Result <49.9	Qualifier U	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	Result <49.9	Qualifier U ics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg	— <u> </u>		Analyzed 01/31/22 13:14	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <49.9 ange Organ Result	Qualifier U ics (DRO) Qualifier	RL 49.9 (GC)	Unit mg/Kg	— <u> </u>	Prepared	Analyzed 01/31/22 13:14 Analyzed	1
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte	Result <49.9 ange Organ Result	Qualifier U ics (DRO) Qualifier U	RL 49.9 (GC)	Unit mg/Kg	— <u> </u>	Prepared	Analyzed 01/31/22 13:14 Analyzed 02/01/22 13:02	1

Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ble				
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed
Chloride	2570		25.3	mg/Kg			02/01/22 18:58

Limits

70 - 130 70 - 130

%Recovery Qualifier

82

93

Client Sample ID: BH03 Lab Sample ID: 890-1876-6 **Matrix: Solid**

Date Collected: 01/25/22 10:14 Date Received: 01/26/22 16:08

Sample Depth: 4

Surrogate

o-Terphenyl

1-Chlorooctane

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			01/28/22 12:00	01/28/22 17:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130			01/28/22 12:00	01/28/22 17:13	1

Dil Fac

Dil Fac

Prepared

01/31/22 11:10 02/01/22 13:02

01/31/22 11:10 02/01/22 13:02

Analyzed

Job ID: 890-1876-1 SDG: Eddy

Client Sample ID: BH03

Lab Sample ID: 890-1876-6

Matrix: Solid

Date Collected: 01/25/22 10:14 Date Received: 01/26/22 16:08

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (G	iC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	Result <50.0		RL 50.0	Unit mg/Kg	_ <u>D</u>	Prepared 01/31/22 11:10		Dil Fac
		U			<u>D</u>	01/31/22 11:10		Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg	<u>D</u>	01/31/22 11:10	02/01/22 13:24	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	<u>D</u>	01/31/22 11:10	02/01/22 13:24 02/01/22 13:24	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	U U	50.0	mg/Kg	<u> </u>	01/31/22 11:10	02/01/22 13:24 02/01/22 13:24	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	mg/Kg	<u>D</u>	01/31/22 11:10 01/31/22 11:10 01/31/22 11:10	02/01/22 13:24 02/01/22 13:24 02/01/22 13:24 Analyzed	Dil Fac

RL

Unit

D

Prepared

02/01/22 19:04 Chloride 2420 F1 24.8 mg/Kg **Client Sample ID: BH04** Lab Sample ID: 890-1876-7

Result Qualifier

Matrix: Solid

Analyzed

Dil Fac

Date Collected: 01/25/22 10:34 Date Received: 01/26/22 16:08

Released to Imaging: 6/6/2024 1:35:55 PM

Method: 300.0 - Anions, Ion Chromatography - Soluble

Sample Depth: 3

Analyte

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/28/22 12:00	01/28/22 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/28/22 12:00	01/28/22 17:34	1
1,4-Difluorobenzene (Surr)	82		70 - 130			01/28/22 12:00	01/28/22 17:34	1
Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			02/02/22 16:52	1
Total BTEX								
	Range Organic	s (DRO) (G	SC)					
Method: 8015 NM - Diesel		s (DRO) (G Qualifier	SC)	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Analyte Total TPH			•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/31/22 13:14	Dil Fac
Method: 8015 NM - Diesel Analyte Total TPH	Result 68.8	Qualifier	RL 49.9		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Analyte	Result 68.8 I Range Organ	Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		Dil Fac

Job ID: 890-1876-1 SDG: Eddy

Client Sample ID: BH04

Lab Sample ID: 890-1876-7

02/01/22 19:22

Matrix: Solid

Date Collected: 01/25/22 10:34 Date Received: 01/26/22 16:08

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	68.8		49.9	mg/Kg		01/31/22 11:10	02/01/22 13:46	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 13:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			01/31/22 11:10	02/01/22 13:46	1
o-Terphenyl	103		70 - 130			01/31/22 11:10	02/01/22 13:46	1
Method: 300.0 - Anions, Ion C	hromatogra	nhy - Soli	ıble					
Metrica, 300.0 - Arrioris, iori c	riii Oilliatogi t							

Client Sample ID: BH04 Lab Sample ID: 890-1876-8 **Matrix: Solid**

25.0

3320

mg/Kg

Date Collected: 01/25/22 10:40

Date Received: 01/26/22 16:08

Sample Depth: 4

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Toluene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/28/22 12:00	01/28/22 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			01/28/22 12:00	01/28/22 17:54	1
1,4-Difluorobenzene (Surr)	99		70 - 130			01/28/22 12:00	01/28/22 17:54	1
Method: Total BTEX - Total B1	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/02/22 16:52	1
· -								
	_		•					
Method: 8015 NM - Diesel Rar Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	_	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/31/22 13:14	Dil Fac
Analyte Total TPH	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		
Analyte	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	Result <50.0	Qualifier U ics (DRO) Qualifier	RL 50.0	mg/Kg		<u> </u>	01/31/22 13:14	1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ange Organ Result	Qualifier U ics (DRO) Qualifier U	RL 50.0	mg/Kg		Prepared 01/31/22 11:10	01/31/22 13:14 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra	Result <50.0 ange Organ Result <50.0	Qualifier U ics (DRO) Qualifier U	(GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 01/31/22 11:10 01/31/22 11:10	01/31/22 13:14 Analyzed 02/01/22 14:08	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U ics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/31/22 11:10 01/31/22 11:10	01/31/22 13:14 Analyzed 02/01/22 14:08 02/01/22 14:08	1 Dil Fac 1
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 ange Organ Result <50.0 <50.0 <50.0	Qualifier U ics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/31/22 11:10 01/31/22 11:10 01/31/22 11:10	01/31/22 13:14 Analyzed 02/01/22 14:08 02/01/22 14:08 02/01/22 14:08	1 Dil Fac 1 1

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH04

Date Collected: 01/25/22 10:40 Date Received: 01/26/22 16:08

Lab Sample ID: 890-1876-8 **Matrix: Solid**

Sample Depth: 4

Project/Site: RDU 11

١	Method: 300.0 - Anions, Ion Chi	omatogra	phy - Solu	ble					
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	2610		25.0	mg/Kg			02/01/22 19:38	5

Client Sample ID: BH05 Lab Sample ID: 890-1876-9

Date Collected: 01/25/22 13:20 Matrix: Solid

Date Received: 01/26/22 16:08

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/28/22 12:00	01/28/22 18:14	
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/28/22 12:00	01/28/22 18:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130			01/28/22 12:00	01/28/22 18:14	
1,4-Difluorobenzene (Surr)	100		70 - 130			01/28/22 12:00	01/28/22 18:14	
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/02/22 16:52	-
Method: 8015 NM - Diesel Rai Analyte Total TPH		Qualifier	RL 49.9	Unit mg/Kg	_ D	Prepared	Analyzed 01/31/22 13:14	Dil Fa
Total TPH	<49.9	U	49.9	mg/Kg			01/31/22 13:14	
Method: 8015B NM - Diesel R	•		• /					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 14:30	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 14:30	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/31/22 11:10	02/01/22 14:30	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil F
1-Chlorooctane	68	S1-	70 - 130			01/31/22 11:10	02/01/22 14:30	
o-Terphenyl	76		70 - 130			01/31/22 11:10	02/01/22 14:30	
Method: 300.0 - Anions, Ion C	hromatogra	phy - Solu	ıble					

02/01/22 19:56

5.02

mg/Kg

134

Chloride

<50.0 U

Job ID: 890-1876-1

Lab Sample ID: 890-1876-10

01/31/22 13:14

Lab Sample ID: 890-1876-11

SDG: Eddy

Matrix: Solid

Client Sample ID: BH05

Date Collected: 01/25/22 13:25 Date Received: 01/26/22 16:08

Sample Depth: 4

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
m-Xylene & p-Xylene	< 0.00397	U	0.00397	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/28/22 12:00	01/28/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130			01/28/22 12:00	01/28/22 18:35	1
1,4-Difluorobenzene (Surr)	112		70 - 130			01/28/22 12:00	01/28/22 18:35	1
- Method: Total BTEX - Tota	I BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			02/02/22 16:52	1
Method: 8015 NM - Diesel	Range Organic	s (DRO) (0	SC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130			01/31/22 11:10	02/01/22 15:13	1
o-Terphenyl	76		70 - 130			01/31/22 11:10	02/01/22 15:13	1

50.0

mg/Kg

Michigal oddio - Alliono, Ion of	nomatography - coluc						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	35.6	4.98	mg/Kg			02/02/22 10:49	1

Client Sample ID: BH06 Date Collected: 01/25/22 14:10

Date Received: 01/26/22 16:08

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/28/22 12:00	01/28/22 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			01/28/22 12:00	01/28/22 18:55	1

Eurofins Carlsbad

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1876-1 Project/Site: RDU 11 SDG: Eddy

Client Sample ID: BH06 Lab Sample ID: 890-1876-11

Date Collected: 01/25/22 14:10 **Matrix: Solid** Date Received: 01/26/22 16:08

Sample Depth: 1

Surrogate		ualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70 - 130	01/28/22 12:00	01/28/22 18:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1

RI

Unit

_				
Mothod: 80	115R NM - Did	Seal Range Or	manice (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		01/31/22 11:10	02/01/22 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130			01/31/22 11:10	02/01/22 15:35	1
o-Terphenyl	78		70 - 130			01/31/22 11:10	02/01/22 15:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble	Method:	300.0 - 4	Anions, Id	on Chroma	tography	- Soluble
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	601		5.03	mg/Kg			02/01/22 20:08	1

Client Sample ID: BH06

Date Collected: 01/25/22 14:28 Date Received: 01/26/22 16:08

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/28/22 12:00	01/28/22 19:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			01/28/22 12:00	01/28/22 19:16	

۱	Surroyate	/orecovery	Qualifier	Liiiii	riepareu Alialyzeu	DII Fac
	4-Bromofluorobenzene (Surr)	128		70 - 130	01/28/22 12:00 01/28/22 19:16	1
l	1,4-Difluorobenzene (Surr)	89		70 - 130	01/28/22 12:00 01/28/22 19:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/31/22 13:14	1

Method: 8015B	NM - Diesel R	ange Organi	ics (DRO)	(GC)
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Method, ou lob MM - Diesel Ital	ige Organi	CS (DIXO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/31/22 11:10	02/01/22 15:57	1

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Lab Sample ID: 890-1876-12

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Matrix: Solid

Client Sample ID: BH06

Date Collected: 01/25/22 14:28

Date Received: 01/26/22 16:08

Sample Depth: 4

Chloride

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	77	70 - 130	01/31/22 11:10	02/01/22 15:57	1
o-Terphenyl	86	70 - 130	01/31/22 11:10	02/01/22 15:57	1

4.98

mg/Kg

Method: 300.0 - Anion	ns, Ion Chromatography - Soluble				
Analyte	Result Qualifier	RL	Unit	D	Prepared

464

Analyzed

02/01/22 20:14

Lab Sample ID: 890-1876-12

Dil Fac

Surrogate Summary

Job ID: 890-1876-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Prep Type: Total/NA

			Per	cent Surrogate Recove
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1872-A-3-C MS	Matrix Spike	100	88	
890-1872-A-3-D MSD	Matrix Spike Duplicate	100	90	
890-1876-1	BH01	111	100	
890-1876-2	BH01	117	101	
890-1876-3	BH02	123	103	
890-1876-4	BH02	114	101	
890-1876-5	BH03	108	75	
890-1876-6	BH03	121	89	
890-1876-7	BH04	116	82	
890-1876-8	BH04	112	99	
890-1876-9	BH05	130	100	
890-1876-10	BH05	123	112	
890-1876-11	BH06	115	104	
890-1876-12	BH06	128	89	
LCS 880-17922/1-A	Lab Control Sample	100	101	
LCSD 880-17922/2-A	Lab Control Sample Dup	102	97	
MB 880-17922/5-A	Method Blank	111	100	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	ent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1876-1	BH01	81	90	
890-1876-2	BH01	81	92	
890-1876-3	BH02	79	90	
890-1876-4	BH02	77	86	
890-1876-5	BH03	82	93	
890-1876-6	BH03	76	84	
890-1876-7	BH04	91	103	
890-1876-8	BH04	72	86	
890-1876-9	BH05	68 S1-	76	
890-1876-10	BH05	66 S1-	76	
890-1876-11	BH06	69 S1-	78	
890-1876-12	BH06	77	86	
890-1883-A-1-C MS	Matrix Spike	69 S1-	69 S1-	
890-1883-A-1-D MSD	Matrix Spike Duplicate	69 S1-	70	
LCS 880-18143/2-A	Lab Control Sample	90	96	
LCSD 880-18143/3-A	Lab Control Sample Dup	89	93	
MB 880-18143/1-A	Method Blank	82	97	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1876-1 SDG: Eddy

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17922/5-A

Lab Sample ID: LCS 880-17922/1-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 17974

Analysis Batch: 17974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17922

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 11:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 11:18	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	01/28/22 07:30	01/28/22 11:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/28/22 07:30	01/28/22 11:18	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17922

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Benzene 76 70 - 130 0.100 0.07650 mg/Kg Toluene 0.100 0.07336 mg/Kg 73 70 - 130 Ethylbenzene 0.100 0.07414 mg/Kg 74 70 - 130 m-Xylene & p-Xylene 0.200 76 0.1514 mg/Kg 70 - 130 o-Xylene 0.100 0.07781 mg/Kg 78 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 17974

Lab Sample ID: LCSD 880-17922/2-A

Prep Type: Total/NA Prep Batch: 17922

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08267		mg/Kg		83	70 - 130	8	35
Toluene	0.100	0.08204		mg/Kg		82	70 - 130	11	35
Ethylbenzene	0.100	0.08305		mg/Kg		83	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.1720		mg/Kg		86	70 - 130	13	35
o-Xylene	0.100	0.08577		mg/Kg		86	70 - 130	10	35

LCSD LCSD

Surrogate	%Recovery 0	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1872-A-3-C MS

Matrix: Solid

Analysis Batch: 17974

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

Prep Batch: 17922

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.0998	0.08204		mg/Kg		82	70 - 130	
Toluene	<0.00201	U	0.0998	0.07890		mg/Kg		79	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1876-1 SDG: Eddy Project/Site: RDU 11

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

Lab Sample ID: 890-1872-A-3-C MS **Client Sample ID: Matrix Spike Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 17974

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.0998	0.08289		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1698		mg/Kg		85	70 - 130	
o-Xylene	<0.00201	U	0.0998	0.08492		mg/Kg		85	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 100 1,4-Difluorobenzene (Surr) 88 70 - 130

Lab Sample ID: 890-1872-A-3-D MSD

Matrix: Solid

Analysis Batch: 17974

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17922

Prep Batch: 17922

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00201 U 0.0998 0.08226 70 - 130 35 mg/Kg 82 0 Toluene <0.00201 U 0.0998 0.07930 79 70 - 130 35 mg/Kg 1 Ethylbenzene <0.00201 U 0.0998 0.08132 mg/Kg 81 70 - 130 2 35 m-Xylene & p-Xylene <0.00402 U 0.200 0.1645 mg/Kg 82 70 - 130 3 35 <0.00201 U 0.0998 0.08062 81 70 - 130 35 o-Xylene mg/Kg

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 100 1,4-Difluorobenzene (Surr) 90 70 - 130

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

Lab Sample ID: MB 880-18143/1-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA** Prep Batch: 18143

Analysis Batch: 18225

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 01/31/22 11:10 02/01/22 09:23 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/31/22 11:10 02/01/22 09:23 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 01/31/22 11:10 02/01/22 09:23

MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 01/31/22 11:10 02/01/22 09:23 1-Chlorooctane 70 - 130 82 70 - 130 01/31/22 11:10 02/01/22 09:23 o-Terphenyl 97

Lab Sample ID: LCS 880-18143/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 18225

C10-C28)

Prep Batch: 18143 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 846.8 85 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1190 mg/Kg 119 70 - 130

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

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

Lab Sample ID: LCS 880-18143/2-A

Lab Sample ID: LCSD 880-18143/3-A

Matrix: Solid

Project/Site: RDU 11

Analysis Batch: 18225

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18143

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	96		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 18225

Prep Batch: 18143 RPD %Rec. Unit %Rec Limits RPD Limit

LCSD LCSD Spike Analyte Added Result Qualifier Gasoline Range Organics 1000 926.5 mg/Kg 93 70 - 130 9 20 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1204 mg/Kg 120 70 - 130 20

C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 89 70 - 130 70 - 130 o-Terphenyl 93

Lab Sample ID: 890-1883-A-1-C MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 18225

Prep Type: Total/NA

Prep Batch: 18143

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec <49.9 U Gasoline Range Organics 999 851.8 mg/Kg 83 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 970.6 mg/Kg 95 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane S1-70 - 130 69 o-Terphenyl 69 S1-70 - 130

Lab Sample ID: 890-1883-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analysis Batch: 18225

Prep Type: Total/NA Prep Batch: 18143

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit %Rec mg/Kg <49.9 U 999 967.9 95 70 - 130 13 20 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 999.6 mg/Kg 98 70 - 130 3 20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	70		70 - 130

Client: WSP USA Inc. Project/Site: RDU 11

Matrix: Solid

Matrix: Solid

Job ID: 890-1876-1

SDG: Eddy

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18029/1-A

Lab Sample ID: LCS 880-18029/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 18094

MB MB

Analyte Result Qualifier RL Unit D Analyzed Dil Fac Prepared Chloride 5.00 02/01/22 17:20 <5.00 U mg/Kg

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Client Sample ID: BH03

Prep Type: Soluble

Analysis Batch: 18094

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits

Chloride 250 90 - 110 231.6 mg/Kg 93

Lab Sample ID: LCSD 880-18029/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble

Analysis Batch: 18094

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Limits RPD Limit Unit D %Rec Chloride 250 261.3 105 90 - 110 mg/Kg

Lab Sample ID: 890-1876-6 MS **Client Sample ID: BH03 Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 18094

Spike MS MS %Rec. Sample Sample Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Chloride 2420 F1 1240 3559 90 - 110 mg/Kg

Lab Sample ID: 890-1876-6 MSD

Matrix: Solid

Analysis Batch: 18094

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 2420 F1 1240 3183 F1 62 90 - 110 20 mg/Kg 11

QC Association Summary

Client: WSP USA Inc.
Project/Site: RDU 11
Job ID: 890-1876-1
SDG: Eddy

GC VOA

Prep Batch: 17922

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	5035	_
890-1876-2	BH01	Total/NA	Solid	5035	
890-1876-3	BH02	Total/NA	Solid	5035	
890-1876-4	BH02	Total/NA	Solid	5035	
890-1876-5	BH03	Total/NA	Solid	5035	
890-1876-6	BH03	Total/NA	Solid	5035	
890-1876-7	BH04	Total/NA	Solid	5035	
890-1876-8	BH04	Total/NA	Solid	5035	
890-1876-9	BH05	Total/NA	Solid	5035	
890-1876-10	BH05	Total/NA	Solid	5035	
890-1876-11	BH06	Total/NA	Solid	5035	
890-1876-12	BH06	Total/NA	Solid	5035	
MB 880-17922/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17922/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17922/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1872-A-3-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1872-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8021B	17922
890-1876-2	BH01	Total/NA	Solid	8021B	17922
890-1876-3	BH02	Total/NA	Solid	8021B	17922
890-1876-4	BH02	Total/NA	Solid	8021B	17922
890-1876-5	BH03	Total/NA	Solid	8021B	17922
890-1876-6	BH03	Total/NA	Solid	8021B	17922
890-1876-7	BH04	Total/NA	Solid	8021B	17922
890-1876-8	BH04	Total/NA	Solid	8021B	17922
890-1876-9	BH05	Total/NA	Solid	8021B	17922
890-1876-10	BH05	Total/NA	Solid	8021B	17922
890-1876-11	BH06	Total/NA	Solid	8021B	17922
890-1876-12	BH06	Total/NA	Solid	8021B	17922
MB 880-17922/5-A	Method Blank	Total/NA	Solid	8021B	17922
LCS 880-17922/1-A	Lab Control Sample	Total/NA	Solid	8021B	17922
LCSD 880-17922/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17922
890-1872-A-3-C MS	Matrix Spike	Total/NA	Solid	8021B	17922
890-1872-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17922

Analysis Batch: 18419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	Total BTEX	
890-1876-2	BH01	Total/NA	Solid	Total BTEX	
890-1876-3	BH02	Total/NA	Solid	Total BTEX	
890-1876-4	BH02	Total/NA	Solid	Total BTEX	
890-1876-5	BH03	Total/NA	Solid	Total BTEX	
890-1876-6	BH03	Total/NA	Solid	Total BTEX	
890-1876-7	BH04	Total/NA	Solid	Total BTEX	
890-1876-8	BH04	Total/NA	Solid	Total BTEX	
890-1876-9	BH05	Total/NA	Solid	Total BTEX	
890-1876-10	BH05	Total/NA	Solid	Total BTEX	

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Released to Imaging: 6/6/2024 1:35:55 PM

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QC Association Summary

Job ID: 890-1876-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: Eddy

GC Semi VOA

Prep Batch: 18143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015NM Prep	
890-1876-2	BH01	Total/NA	Solid	8015NM Prep	
890-1876-3	BH02	Total/NA	Solid	8015NM Prep	
890-1876-4	BH02	Total/NA	Solid	8015NM Prep	
890-1876-5	BH03	Total/NA	Solid	8015NM Prep	
890-1876-6	BH03	Total/NA	Solid	8015NM Prep	
890-1876-7	BH04	Total/NA	Solid	8015NM Prep	
890-1876-8	BH04	Total/NA	Solid	8015NM Prep	
890-1876-9	BH05	Total/NA	Solid	8015NM Prep	
890-1876-10	BH05	Total/NA	Solid	8015NM Prep	
890-1876-11	BH06	Total/NA	Solid	8015NM Prep	
890-1876-12	BH06	Total/NA	Solid	8015NM Prep	
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 18170

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015 NM	
890-1876-2	BH01	Total/NA	Solid	8015 NM	
890-1876-3	BH02	Total/NA	Solid	8015 NM	
890-1876-4	BH02	Total/NA	Solid	8015 NM	
890-1876-5	BH03	Total/NA	Solid	8015 NM	
890-1876-6	BH03	Total/NA	Solid	8015 NM	
890-1876-7	BH04	Total/NA	Solid	8015 NM	
890-1876-8	BH04	Total/NA	Solid	8015 NM	
890-1876-9	BH05	Total/NA	Solid	8015 NM	
890-1876-10	BH05	Total/NA	Solid	8015 NM	
890-1876-11	BH06	Total/NA	Solid	8015 NM	
890-1876-12	BH06	Total/NA	Solid	8015 NM	

Analysis Batch: 18225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-1	BH01	Total/NA	Solid	8015B NM	18143
890-1876-2	BH01	Total/NA	Solid	8015B NM	18143
890-1876-3	BH02	Total/NA	Solid	8015B NM	18143
890-1876-4	BH02	Total/NA	Solid	8015B NM	18143
890-1876-5	BH03	Total/NA	Solid	8015B NM	18143
890-1876-6	BH03	Total/NA	Solid	8015B NM	18143
890-1876-7	BH04	Total/NA	Solid	8015B NM	18143
890-1876-8	BH04	Total/NA	Solid	8015B NM	18143
890-1876-9	BH05	Total/NA	Solid	8015B NM	18143
890-1876-10	BH05	Total/NA	Solid	8015B NM	18143
890-1876-11	BH06	Total/NA	Solid	8015B NM	18143
890-1876-12	BH06	Total/NA	Solid	8015B NM	18143
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015B NM	18143
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18143
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18143
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18143

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QC Association Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

GC Semi VOA (Continued)

Analysis Batch: 18225 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18143

HPLC/IC

Leach Batch: 18029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-5	BH03	Soluble	Solid	DI Leach	
890-1876-6	BH03	Soluble	Solid	DI Leach	
890-1876-7	BH04	Soluble	Solid	DI Leach	
890-1876-8	BH04	Soluble	Solid	DI Leach	
890-1876-9	BH05	Soluble	Solid	DI Leach	
890-1876-10	BH05	Soluble	Solid	DI Leach	
890-1876-11	BH06	Soluble	Solid	DI Leach	
890-1876-12	BH06	Soluble	Solid	DI Leach	
MB 880-18029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1876-6 MS	BH03	Soluble	Solid	DI Leach	
890-1876-6 MSD	BH03	Soluble	Solid	DI Leach	

Analysis Batch: 18094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1876-5	BH03	Soluble	Solid	300.0	18029
890-1876-6	BH03	Soluble	Solid	300.0	18029
890-1876-7	BH04	Soluble	Solid	300.0	18029
890-1876-8	BH04	Soluble	Solid	300.0	18029
890-1876-9	BH05	Soluble	Solid	300.0	18029
890-1876-10	BH05	Soluble	Solid	300.0	18029
890-1876-11	BH06	Soluble	Solid	300.0	18029
890-1876-12	BH06	Soluble	Solid	300.0	18029
MB 880-18029/1-A	Method Blank	Soluble	Solid	300.0	18029
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	300.0	18029
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18029
890-1876-6 MS	BH03	Soluble	Solid	300.0	18029
890-1876-6 MSD	BH03	Soluble	Solid	300.0	18029

Client: WSP USA Inc.

Project/Site: RDU 11

Total/NA

Matrix: Solid

Client Sample ID: BH01

Date Collected: 01/25/22 09:10 Date Received: 01/26/22 16:08

Batch Batch Dil Initial Final Batch Prepared Method **Factor Amount Amount** Number or Analyzed Analyst **Prep Type** Type Run Lab Total/NA 5035 4.97 g 5 mL 17922 01/28/22 12:00 KL XEN MID Prep Total/NA 8021B 5 mL 5 mL 17974 01/28/22 14:28 KL XEN MID Analysis 1 Total/NA Analysis **Total BTEX** 18419 02/02/22 16:52 AJ XEN MID Total/NA 8015 NM 01/31/22 13:14 AJ XEN MID Analysis 1 18170 Total/NA 18143 01/31/22 11:10 DM XEN MID Prep 8015NM Prep 10.01 g 10 mL

1

Lab Sample ID: 890-1876-2

02/01/22 11:34 AJ

18225

Lab Sample ID: 890-1876-1

Matrix: Solid

XEN MID

Date Collected: 01/25/22 09:24 Date Received: 01/26/22 16:08

Client Sample ID: BH01

Analysis

8015B NM

_	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	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 14:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 11:56	AJ	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1876-3 **Matrix: Solid**

Date Collected: 01/25/22 09:32 Date Received: 01/26/22 16:08

	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	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 12:18	AJ	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1876-4 Date Collected: 01/25/22 09:50 Matrix: Solid

Date Received: 01/26/22 16:08

Prep Type Total/NA Total/NA	Batch Type Prep Analysis	Batch Method 5035 8021B	Run	Dil Factor	Initial Amount 4.95 g 5 mL	Final Amount 5 mL	Batch Number 17922 17974	Prepared or Analyzed 01/28/22 12:00 01/28/22 16:32		Lab XEN MID XEN MID
Total/NA Total/NA	Analysis Analysis	Total BTEX 8015 NM		1	3 IIIL	3 IIIL	18419 18170	02/02/22 16:52 01/31/22 13:14	AJ	XEN MID XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	18143 18225	01/31/22 11:10 02/01/22 12:40	DM AJ	XEN MID XEN MID

Client: WSP USA Inc.

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH03

Project/Site: RDU 11

Lab Sample ID: 890-1876-5

Matrix: Solid

Date Collected: 01/25/22 10:08 Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 16:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:02	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 18:58	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1876-6

Date Collected: 01/25/22 10:14 **Matrix: Solid**

Date Received: 01/26/22 16:08

	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	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18029	01/28/22 10:48	СН	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:04	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1876-7 Date Collected: 01/25/22 10:34 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035	_		4.96 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 13:46	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:22	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1876-8 Date Collected: 01/25/22 10:40 Matrix: Solid

Date Received: 01/26/22 16:08

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 17:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID

Eurofins Carlsbad

Page 24 of 33

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH04 Date Collected: 01/25/22 10:40 Lab Sample ID: 890-1876-8

Date Received: 01/26/22 16:08

Campio	000 1070 0	
	Matrix: Solid	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 14:08	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 19:38	CH	XEN MID

Lab Sample ID: 890-1876-9

Client Sample ID: BH05 Date Collected: 01/25/22 13:20 **Matrix: Solid**

Date Received: 01/26/22 16:08

	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	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g	10 mL	18143 18225	01/31/22 11:10 02/01/22 14:30	DM AJ	XEN MID XEN MID
Soluble Soluble	Leach Analysis	DI Leach 300.0		1	4.98 g	50 mL	18029 18094	01/28/22 10:48 02/01/22 19:56		XEN MID XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1876-10 Date Collected: 01/25/22 13:25 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18419	02/02/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 15:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/02/22 10:49	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-1876-11 Date Collected: 01/25/22 14:10 **Matrix: Solid**

Date Received: 01/26/22 16:08

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 18:55	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	18143 18225	01/31/22 11:10 02/01/22 15:35	DM AJ	XEN MID XEN MID

Eurofins Carlsbad

Released to Imaging: 6/6/2024 1:35:55 PM

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Client Sample ID: BH06

Date Collected: 01/25/22 14:10 Date Received: 01/26/22 16:08

Lab Sample ID: 890-1876-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:08	CH	XEN MID

Lab Sample ID: 890-1876-12

Matrix: Solid

Date Collected: 01/25/22 14:28 Date Received: 01/26/22 16:08

Client Sample ID: BH06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	17922	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/28/22 19:16	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18170	01/31/22 13:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 15:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:14	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-1876-1

Project/Site: RDU 11

SDG: Eddy

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
and agoney adde not	oner certification.			
Analysis Method	Prep Method	Matrix	Analyte	
0 ,		Matrix Solid	Analyte Total TPH	

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Method Summary

Client: WSP USA Inc. Project/Site: RDU 11 Job ID: 890-1876-1

SDG: Eddy

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-1876-1

SDG: Eddy

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1876-1	BH01	Solid	01/25/22 09:10	01/26/22 16:08	1
890-1876-2	BH01	Solid	01/25/22 09:24	01/26/22 16:08	4
890-1876-3	BH02	Solid	01/25/22 09:32	01/26/22 16:08	1
890-1876-4	BH02	Solid	01/25/22 09:50	01/26/22 16:08	4
890-1876-5	BH03	Solid	01/25/22 10:08	01/26/22 16:08	3
890-1876-6	BH03	Solid	01/25/22 10:14	01/26/22 16:08	4
890-1876-7	BH04	Solid	01/25/22 10:34	01/26/22 16:08	3
890-1876-8	BH04	Solid	01/25/22 10:40	01/26/22 16:08	4
890-1876-9	BH05	Solid	01/25/22 13:20	01/26/22 16:08	2
890-1876-10	BH05	Solid	01/25/22 13:25	01/26/22 16:08	4
890-1876-11	BH06	Solid	01/25/22 14:10	01/26/22 16:08	1
890-1876-12	BH06	Solid	01/25/22 14:28	01/26/22 16:08	4

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Circle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11

TCLP / SPLP 6010 : 8R

12/20 1335

4

13/11/1320

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PHOS RH05 いの記

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8HC9 BH04

service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses

Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample subn rice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client compa

Received by: (Signature)

hap.

100°, h

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date: 08/25/2020 Rev. 2020 2

Relinquished by: (Signature)

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	eurotins
Xenco	Environment Testing

Phone:

251-702 PUDIVICA N. ONES OS M boseph

oject Name:

oject Number:

31403366.031

City, State ZIP: ddress:

Sampler's Name:

Mercy

ED. 098ED HI

oject Location:

6101

Due Date:

TAT starts the day received by the lab, if received by 4:30pm

Routine

Rush

Turn Around

SAMPLE RECEIPT

ooler Custody Seals:

mple Custody Seals:

Yes No Yes No

Temperature Reading:

Corrected Temperature:

imples Received Intact:

Yes No Temp Blank:

Thermometer ID: Correction Factor:

-0,

J-Nmor

(Yes) No

Wet Ice:

No No

otal Containers:

Sample Identification

Matrix

Sampled

Sampled

Date

Time

Depth

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125/2022

6724

1125/2022

0110

125/2022

35/202

1014 W 98 0950

4 يد KH 02 CH C Company Name: Project Manager:

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A SHEE SOLL

City State ZIP:

Anna.

Company Nam

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

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

Work Order No:

Www.xenco.com Frage Www.xenco.com Frage Www.xenco.com Frage Www.xenco.com Frage Work Order Comments Work Order Comments Work Order Comments Work Order Comments RRC State of Project: Reporting: Level III Level III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III Devel III
Work Work Program: UST/PST PRF State of Project: Reporting: Level II Level Deliverables: EDD ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST ANALYSIS REQUEST
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Chain of Custody

ゆ み - 2329 Em:	- SOTOL XI R	NA STreet	ASO.	h Hermodez		Xenco	Environment Testing
Email: Anna - B-less @ wsp. com	City, State ZIP:	Address: >	Company Name:	Bill to: (if different)	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 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
Deliverables: EDD ADaPT Other:	Reporting: Level III Level III PST/UST TRRP Level IV		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com Page 2 of 2		Work Order No:

Project Number:

31403360.

931

Turn Around Rush

ANALYSIS REQUEST

Cool: Cool None: NO

Preservative Codes

DI Water: H₂O

Pres.

Project Name:

City, State ZIP:

281-702 ROUM

Address:

Project Manager: Company Name:

M D oved y

5	Visus	Relinguished by: (Signature)	Notice: Signature of this document and relinquishmond service. Eurofins Xenco will be liable only for the of Eurofins Xenco, A minimum charge of \$85.00 will	nd Me	Total 200.7 / 6010 200.8 / 6020:				8406	Olly/	DHO 6	Sample Identification	Total Containers:	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes No	Samples Received Intact: Yes No	SAMPLE RECEIPT Temp Blank:		Mercy	Project Location: Edd 7
	7/1	Received b	ent of samples constitutes a value of samples and shall not a be applied to each project an						3 18/18/1	_	5 1/25/202 1416	Matrix Sampled	Corrected temperature:	N/A Velaperature Reading	N/A Correction Factor:	No Thermometer ID:	ank: Yes No	60.031	Retich	
		Recented by: (Signature)	alld purchase order from issume any responsibility d a charge of \$5 for eac	TCLP / SPLP 6	8RCRA 13PPM Texas 11 Al Sb As Ba Be B				H	-	14) BIHI	Time Depth	mperature:	Reading	ctor:	ID:	Wet Ice:	the lab, if received by 4:30pm	TAT starts the day received by	Due Date:
			client company y for any losses o h sample submit	010 : 8RC	exas 11 /				4	-	· Grab	Grab/ Comp	100				Yes No	oy 4:30pm	ceived by	
	the	0	to Eurofins r expenses ted to Euro	RA Sb	I Sb A							# of Cont		_			eter			
	74	Date/Time	Xenco, its incurred b fins Xenco	As Ba	s Ba E	-				×	×	BIE		(٤			921			. 1
	1/2/2 4:00/2	ه ا	affiliates an y the client but not an	Be Cd	se B Co	\vdash		+			×	TP#	Dri	do.	<u>ρ</u> Α	8	A	30	Ø.	(y)
6		Relinquished by: (Signature)	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 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 enforced unless previously negotiated.		Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni															
		Received by: (Signature) Date/Time	ated.	Hg: 1631 / 245.1 / 7470 / 7471	Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn							Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO 4: NABIS	H ₃ PO ₄ :HP	H ₂ SO ₄ : H ₂ NaOH: Na	HCL: HC HNO 3: HN	Cool: Cool MeOH: Me

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1876-1

SDG Number: Eddy

List Source: Eurofins Carlsbad Login Number: 1876

List Number: 1

Creator: Olivas, Nathaniel

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

Eurofins Carlsbad

Released to Imaging: 6/6/2024 1:35:55 PM

Login Sample Receipt Checklist

Job Number: 890-1876-1

SDG Number: Eddy

Login Number: 1876 **List Source: Eurofins Midland** List Creation: 01/28/22 12:32 PM List Number: 2

Creator: Rodriguez, Leticia

Client: WSP USA Inc.

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 America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2003-1

Laboratory Sample Delivery Group: 31403360.03

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

J. CRAMER

Authorized for release by: 3/3/2022 3:57:39 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

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Client: WSP USA Inc.

Project/Site: RDU 11

Laboratory Job ID: 890-2003-1

SDG: 31403360.03

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Qualifiers

GC VOA Qualifier

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

F2 MS/MSD RPD exceeds control limits

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

GC Semi VOA

Qualifier **Qualifier Description** 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**

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery **CFL** Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference) Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

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

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

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL

Practical Quantitation Limit

Presumptive **PRES** QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

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) TFO

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Job ID: 890-2003-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2003-1

Receipt

The samples were received on 2/23/2022 11:26 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 1.6°C

GC VOA

Method 8021B: The following samples were diluted due to the nature of the sample matrix: (890-2009-A-3-I), (890-2009-A-3-G MS) and (890-2009-A-3-H MSD) at 25.0, 25.0 and 25.0. Elevated reporting limits (RLs) are provided.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-20605 and analytical batch 880-20710 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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: BH10 (890-2003-7), (LCS 880-20253/2-A) and (880-11670-A-1-D MS). Evidence of matrix interferences is not obvious.

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.

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Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH07

Lab Sample ID: 890-2003-1 Date Collected: 02/18/22 10:45 Matrix: Solid

Sample Depth: 0.5

Date Received: 02/23/22 11:26

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 02:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			03/02/22 16:00	03/03/22 02:32	1
1,4-Difluorobenzene (Surr)	91		70 - 130			03/02/22 16:00	03/03/22 02:32	1
- Method: Total BTEX - Total BTEX	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Analyte Total TPH	Result 81.7	Qualifier		Unit mg/Kg	D	Prepared	Analyzed 02/25/22 15:07	Dil Fac
					— <u> </u>			1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:14	1
(GNO)-00-010								
Diesel Range Organics (Over	81.7		50.0	mg/Kg		02/24/22 15:51	02/25/22 03:14	1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	81.7 <50.0	U	50.0 50.0	mg/Kg mg/Kg		02/24/22 15:51	02/25/22 03:14	•
Diesel Range Organics (Over C10-C28)								1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0		50.0			02/24/22 15:51	02/25/22 03:14	1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 %Recovery		50.0			02/24/22 15:51 Prepared	02/25/22 03:14 Analyzed	1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 **Recovery 88 86	Qualifier	50.0 Limits 70 - 130			02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 03:14 Analyzed 02/25/22 03:14	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 88 86 comatography -	Qualifier	50.0 Limits 70 - 130		D	02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 03:14 Analyzed 02/25/22 03:14	1 Dil Fac

Client Sample ID: BH07 Lab Sample ID: 890-2003-2

Date Collected: 02/18/22 10:55 Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/02/22 16:00	03/03/22 02:59	
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/02/22 16:00	03/03/22 02:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			03/02/22 16:00	03/03/22 02:59	

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Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH07

Lab Sample ID: 890-2003-2 Date Collected: 02/18/22 10:55 Matrix: Solid

Sample Depth: 4

Date Received: 02/23/22 11:26

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
mothodi coz iz rolatilo olgalilo compt	Julius (33)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	94	70 - 130	03/02/22 16:00	03/03/22 02:59	1

Method: Total	BTEX - Total	BTEX Calculation	าท

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403	ma/Ka			02/28/22 10:23	1

Method: 8015 NM - Diesel Range Organics (I	DRO)	(GC)
method. of to this - Dieser Range Organics (i	יוטוט	(00)

Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 L	J	49.9	mg/Kg			02/25/22 15:07	1

Method: 8015B NM - Diese	I Range Organics	(DRO)	(GC)
moundar of ros run Sido	tungo organioo	()	1/

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 03:35	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 03:35	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	96	70 - 130
o-Terphenyl	98	70 - 130

Method: 300.0 - Anions, Ion Chrom	atography - Soluble						
Analyte	Result Qualifier	RL	Unit	_ D	Prepared	Analyzed	Dil Fac

				•	•		
Chloride	510	5.00	mg/Kg		02/27/22 14:33	1	
_							

Client Sample ID: BH08 Lab Sample ID: 890-2003-3 Matrix: Solid

Date Collected: 02/18/22 11:00 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B -	. Volatila	Organic (Compounds	(GC)
Methou, ouz ib :	· voiatile	Oruanic C	JUHUUUHIUS	100

wethou: 6021B - Volatile Organ	nic Compounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/02/22 16:00	03/03/22 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			03/02/22 16:00	03/03/22 03:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/02/22 16:00	03/03/22 03:25	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 10:23	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	 108		50.0	mg/Kg			02/25/22 15:07	1

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02/24/22 15:51

02/24/22 15:51 02/25/22 03:35

02/25/22 03:35

Lab Sample ID: 890-2003-3

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH08

Date Collected: 02/18/22 11:00 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
Diesel Range Organics (Over	108		50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			02/24/22 15:51	02/25/22 03:55	1
o-Terphenyl	74		70 - 130			02/24/22 15:51	02/25/22 03:55	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	492		25.1	mg/Kg			02/27/22 14:42	5

Lab Sample ID: 890-2003-4 **Client Sample ID: BH08** Date Collected: 02/18/22 11:10 Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/02/22 16:00	03/03/22 03:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130			03/02/22 16:00	03/03/22 03:52	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/02/22 16:00	03/03/22 03:52	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			02/24/22 15:51	02/25/22 04:16	1
o-Terphenyl	100		70 - 130			02/24/22 15:51	02/25/22 04:16	1

Lab Sample ID: 890-2003-4

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH08

Date Collected: 02/18/22 11:10 Date Received: 02/23/22 11:26

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Chloride	12.9		4.98	mg/Kg			02/27/22 14:51	1			

Client Sample ID: BH09 Lab Sample ID: 890-2003-5 Matrix: Solid

Date Collected: 02/18/22 12:30 Date Received: 02/23/22 11:26

Method: 8021B - Volatile Organic Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	
Toluene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 22:15	
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 22:15	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 22:15	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130			03/01/22 08:30	03/01/22 22:15	
1,4-Difluorobenzene (Surr)	97		70 - 130			03/01/22 08:30	03/01/22 22:15	
Method: Total BTEX - Total BTE	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	
Analyte Total TPH		Qualifier U	RL 49.9	mg/Kg	D	Prepared	Analyzed 02/25/22 15:07	Dil Fa
- -			45.5	mg//tg			02/20/22 10.07	
Method: 8015B NM - Diesel Rang	• •	, , ,	-		_			511.5
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		02/24/22 15:51	02/25/22 04:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	81		70 - 130			02/24/22 15:51	02/25/22 04:57	
o-Terphenyl	83		70 - 130			02/24/22 15:51	02/25/22 04:57	
		Calubia						
Method: 300.0 - Anions, Ion Chro								
Method: 300.0 - Anions, Ion Chro Analyte Chloride		Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/27/22 14:59	Dil Fa

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Lab Sample ID: 890-2003-6

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH09

Date Collected: 02/18/22 12:45 Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	•
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 22:36	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:36	•
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 22:36	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130			03/01/22 08:30	03/01/22 22:36	
1,4-Difluorobenzene (Surr)	93		70 - 130			03/01/22 08:30	03/01/22 22:36	
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	mg/Kg			02/28/22 10:23	
Analyte Total TPH	<50.0	Qualifier U		Unit mg/Kg	D	Prepared	Analyzed 02/25/22 15:07	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			02/25/22 15:07	•
Method: 8015B NM - Diesel Rang								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 05:17	Dil Fa
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 05:17	
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0		50.0 50.0	mg/Kg mg/Kg		02/24/22 15:51	02/25/22 05:17	
C10-C28)		U		0 0				
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	0 0		02/24/22 15:51	02/25/22 05:17	Dil Fa
C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0	U	50.0 <i>Limits</i>	0 0		02/24/22 15:51 Prepared	02/25/22 05:17 Analyzed	Dil Fa
C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 **Recovery 83 85	U Qualifier	50.0 Limits 70 - 130	0 0		02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 05:17 Analyzed 02/25/22 05:17	Dil Fac
C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 **Recovery 83 85 omatography -	U Qualifier	50.0 Limits 70 - 130	0 0	<u>D</u>	02/24/22 15:51 Prepared 02/24/22 15:51	02/25/22 05:17 Analyzed 02/25/22 05:17	Dil Fac

Client Sample ID: BH10

Date Collected: 02/18/22 13:05 Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/01/22 08:30	03/01/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 22:56	

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Matrix: Solid

Lab Sample ID: 890-2003-7

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH10 Lab Sample ID: 890-2003-7

Date Collected: 02/18/22 13:05 **Matrix: Solid** Date Received: 02/23/22 11:26

Sample Depth: 0.5

Method: 8021B - Volatile Organic	Compounds	(GC) (Conti	nued)					
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130			03/01/22 08:30	03/01/22 22:56	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	1660		250	mg/Kg			02/25/22 15:07	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Diesel Range Organics (Over C10-C28)	1660		250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Oll Range Organics (Over C28-C36)	<250	U	250	mg/Kg		02/24/22 15:51	02/25/22 05:38	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130			02/24/22 15:51	02/25/22 05:38	5

o-Terphenyl	81		70 - 130			02/24/22 15:51	02/25/22 05:38	5
Method: 300.0 - Anions, Ion Chrom	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	906		4.99	mg/Kg			02/27/22 15:35	1

<50.0 U

Client Sample ID: BH10 Lab Sample ID: 890-2003-8 **Matrix: Solid**

Date Collected: 02/18/22 13:20 Date Received: 02/23/22 11:26

Sample Depth: 4

Total TPH

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 23:16	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/01/22 08:30	03/01/22 23:16	1
Method: Total BTEX - Total B1	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
- Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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02/25/22 15:07

50.0

mg/Kg

Lab Sample ID: 890-2003-8

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH10

Date Collected: 02/18/22 13:20 Date Received: 02/23/22 11:26

Sample Depth: 4

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/24/22 15:51	02/25/22 04:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			02/24/22 15:51	02/25/22 04:36	1
o-Terphenyl	89		70 - 130			02/24/22 15:51	02/25/22 04:36	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18000		253	mg/Kg			02/27/22 16:01	50

Client Sample ID: BH11 Lab Sample ID: 890-2003-9 Date Collected: 02/18/22 13:30 Matrix: Solid

Date Received: 02/23/22 11:26

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/01/22 08:30	03/01/22 23:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/01/22 08:30	03/01/22 23:37	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/01/22 08:30	03/01/22 23:37	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			02/25/22 08:25	02/25/22 17:05	1
o-Terphenyl	85		70 - 130			02/25/22 08:25	02/25/22 17:05	1

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3/3/2022

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Client Sample ID: BH11 Lab Sample ID: 890-2003-9

Date Collected: 02/18/22 13:30

Date Received: 02/23/22 11:26

Matrix: Solid

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	135		4.95	mg/Kg			02/27/22 16:10	1	

Client Sample ID: BH11

Date Collected: 02/18/22 13:45

Lab Sample ID: 890-2003-10

Matrix: Solid

Date Collected: 02/18/22 13:45 Date Received: 02/23/22 11:26

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/01/22 08:30	03/01/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/01/22 08:30	03/01/22 23:57	1
1,4-Difluorobenzene (Surr)	103		70 - 130			03/01/22 08:30	03/01/22 23:57	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			02/28/22 10:23	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			02/25/22 15:07	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			02/25/22 08:25	02/25/22 17:25	1
o-Terphenyl	116		70 - 130			02/25/22 08:25	02/25/22 17:25	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3220		25.3	mg/Kg			02/27/22 16:19	- 5

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC)

latrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-11907-A-1-B MS	Matrix Spike	98	106	
880-11907-A-1-C MSD	Matrix Spike Duplicate	94	98	
890-2003-1	вно7	88	91	
890-2003-2	BH07	78	94	
890-2003-3	BH08	88	95	
890-2003-4	BH08	59 S1-	92	
890-2003-5	BH09	111	97	
890-2003-6	BH09	104	93	
890-2003-7	BH10	105	102	
890-2003-8	BH10	105	101	
890-2003-9	BH11	100	90	
890-2003-10	BH11	105	103	
890-2009-A-3-G MS	Matrix Spike	72	73	
890-2009-A-3-H MSD	Matrix Spike Duplicate	122	75	
CB MB	Method Blank	51 S1-	99	
LCS 880-20526/1-A	Lab Control Sample	98	101	
LCS 880-20605/1-A	Lab Control Sample	101	124	
LCSD 880-20526/2-A	Lab Control Sample Dup	101	103	
LCSD 880-20605/2-A	Lab Control Sample Dup	97	102	
MB 880-20526/5-A	Method Blank	97	98	
	Method Blank	49 S1-	101	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
380-11670-A-1-D MS	Matrix Spike	69 S1-	73	
380-11670-A-1-E MSD	Matrix Spike Duplicate	82	77	
390-2003-1	BH07	88	86	
390-2003-2	BH07	96	98	
390-2003-3	BH08	76	74	
390-2003-4	BH08	98	100	
390-2003-5	BH09	81	83	
90-2003-6	BH09	83	85	
390-2003-7	BH10	54 S1-	81	
90-2003-8	BH10	84	89	
90-2003-9	BH11	89	85	
390-2003-10	BH11	113	116	
390-2004-A-1-E MS	Matrix Spike	94	81	
390-2004-A-1-F MSD	Matrix Spike Duplicate	92	80	
_CS 880-20293/2-A	Lab Control Sample	80	81	
CSD 880-20293/3-A	Lab Control Sample Dup	103	104	
MB 880-20293/1-A	Method Blank	105	115	

Surrogate Summary

Client: WSP USA Inc. Project/Site: RDU 11

OTPH = o-Terphenyl

Job ID: 890-2003-1 1CO = 1-Chlorooctane

SDG: 31403360.03

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate R	Recovery (Accep
		1CO2	OTPH2	· ·	, ,
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
LCS 880-20253/2-A	Lab Control Sample	132 S1+	136 S1+		
LCSD 880-20253/3-A	Lab Control Sample Dup	113	128		
MB 880-20253/1-A	Method Blank	97	102		
Surrogate Legend					
1CO = 1-Chlorooctane					_
OTPH = o-Terphenyl					

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20526/5-A

Matrix: Solid Analysis Batch: 20577 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 20526

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/01/22 08:30	03/01/22 13:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/01/22 08:30	03/01/22 13:39	1

MB MB

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97	70 - 130	03/01/22 08:30	03/01/22 13:39	1
1,4-Difluorobenzene (Surr)	98	70 - 130	03/01/22 08:30	03/01/22 13:39	1

Lab Sample ID: LCS 880-20526/1-A

Matrix: Solid

Analysis Batch: 20577

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20526

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09731 mg/Kg 97 70 - 130 Toluene 0.100 0.09402 mg/Kg 94 70 - 130 0.100 0.09440 Ethylbenzene mg/Kg 94 70 - 130 m-Xylene & p-Xylene 0.200 0.2156 108 70 - 130 mg/Kg 0.100 105 70 - 130 o-Xylene 0.1049 mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-20526/2-A

Matrix: Solid

Analysis Batch: 20577

Prep Type: Total/NA

Prep Batch: 20526

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	6	35	
Toluene	0.100	0.09946		mg/Kg		99	70 - 130	6	35	
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2324		mg/Kg		116	70 - 130	7	35	
o-Xylene	0.100	0.1148		mg/Kg		115	70 - 130	9	35	

LCSD LCSD

Surrogate	%Recovery Qualific	er Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1.4-Difluorobenzene (Surr)	103	70 - 130

Lab Sample ID: 890-2009-A-3-G MS

Matrix: Solid

Analysis Batch: 20577

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

Prep Batch: 20526

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.0498	U F1	0.101	0.8104	F1	mg/Kg	_	804	70 - 130	
Toluene	<0.0498	U F1 F2	0.101	1.626	F1	mg/Kg		1613	70 - 130	

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Job ID: 890-2003-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.03

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

Lab Sample ID: 890-2009-A-3-G MS

Lab Sample ID: 890-2009-A-3-H MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 20577

Analysis Batch: 20577

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20526

l	Sam	ple Sample	Spike	MS	MS				%Rec.	
	Analyte Re:	ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Ethylbenzene <0.0	98 U F1 F2	0.101	2.379	F1	mg/Kg		2360	70 - 130	
	m-Xylene & p-Xylene <0.0	96 UF1F2	0.202	9.133	F1	mg/Kg		4530	70 - 130	
	o-Xylene <0.0	98 U F1 F2	0.101	4.163	F1	mg/Kg		4130	70 - 130	
	Ethylbenzene <0.0 m-Xylene & p-Xylene <0.0	98 UF1F2 96 UF1F2	0.101	2.379 9.133	F1	mg/Kg		2360 4530	70 ₋ 130 70 ₋ 130	 -

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	72	70 - 130
1,4-Difluorobenzene (Surr)	73	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20526

RPD

Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit 0.0996 0.9509 F1 Benzene <0.0498 UF1 mg/Kg 955 70 - 130 16 35 Toluene 0.0996 2515 <0.0498 U F1 F2 2.505 F1 F2 mg/Kg 70 - 130 43 35 3519 Ethylbenzene <0.0498 UF1F2 0.0996 3.505 F1 F2 mg/Kg 70 - 130 38 35 m-Xylene & p-Xylene <0.0996 UF1F2 0.199 15.01 F1 F2 7534 70 - 130 49 35 mg/Kg 0.0996 o-Xylene <0.0498 U F1 F2 7.358 F1 F2 7387 70 - 130 55 mg/Kg

MSD MSD

Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	122	70 - 130
1,4-Difluorobenzene (Surr)	75	70 - 130

Lab Sample ID: MB 880-20605/5-A

Matrix: Solid

Analysis Batch: 20710

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20605

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/02/22 16:00	03/02/22 20:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/02/22 16:00	03/02/22 20:20	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	49	S1-	70 - 130	03/02/22 16:00	03/02/22 20:20	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/02/22 16:00	03/02/22 20:20	1

Lab Sample ID: LCS 880-20605/1-A

Matrix: Solid

Analysis Batch: 20710

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

Prep Batch: 20605

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1224		mg/Kg		122	70 - 130	
Toluene	0.100	0.1044		mg/Kg		104	70 - 130	
Ethylbenzene	0.100	0.1072		mg/Kg		107	70 - 130	
m-Xylene & p-Xylene	0.200	0.2201		mg/Kg		110	70 - 130	

Prep Batch: 20605

Prep Batch: 20605

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Lab Sample ID: LCS 880-20605/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 20605 **Analysis Batch: 20710**

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.1072		mg/Kg		107	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	124		70 - 130

Lab Sample ID: LCSD 880-20605/2-A **Client Sample ID: Lab Control Sample Dup Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20710

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1058		mg/Kg		106	70 - 130	15	35
Toluene	0.100	0.09560		mg/Kg		96	70 - 130	9	35
Ethylbenzene	0.100	0.1004		mg/Kg		100	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	6	35
o-Xylene	0.100	0.09996		mg/Kg		100	70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-11907-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20710

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.07733		mg/Kg		77	70 - 130	
Toluene	<0.00200	U F1	0.101	0.06553	F1	mg/Kg		65	70 - 130	
Ethylbenzene	<0.00200	U F1	0.101	0.06954	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1418		mg/Kg		70	70 - 130	
o-Xylene	<0.00200	U	0.101	0.07034		mg/Kg		70	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1.4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-11907-A-1-C MSD **Client Sample ID: Matrix Spike Duplicate**

Matrix: Solid

Analy	sis B	atch:	20710	1
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Analysis Batch: 20710									Prep	Batch:	20605
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07748		mg/Kg		77	70 - 130	0	35
Toluene	<0.00200	U F1	0.100	0.06554	F1	mg/Kg		65	70 - 130	0	35
Ethylbenzene	<0.00200	U F1	0.100	0.07098		mg/Kg		71	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U	0.201	0.1454		mg/Kg		72	70 - 130	3	35
o-Xylene	<0.00200	U	0.100	0.07552		mg/Kg		75	70 - 130	7	35

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Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Lab Sample ID: 880-11907-A-1-C MSD

Matrix: Solid

Analysis Batch: 20710

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20605

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 94 70 - 130 1,4-Difluorobenzene (Surr) 98 70 - 130

Lab Sample ID: CB MB Client Sample ID: Method Blank **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 20710

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac <0.00200 U 0.00200 03/02/22 17:14 Benzene mg/Kg Toluene <0.00200 U 0.00200 mg/Kg 03/02/22 17:14 <0.00200 U 0.00200 03/02/22 17:14 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 03/02/22 17:14 o-Xylene <0.00200 U 0.00200 mg/Kg 03/02/22 17:14 Xylenes, Total <0.00400 U 0.00400 mg/Kg 03/02/22 17:14

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130		03/02/22 17:14	1
1,4-Difluorobenzene (Surr)	99		70 - 130		03/02/22 17:14	1

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

Lab Sample ID: MB 880-20253/1-A

Matrix: Solid

Analysis Batch: 20195

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 20253

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 02/24/22 15:51 02/24/22 21:01 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 02/24/22 15:51 02/24/22 21:01 C10-C28) 50.0 Oll Range Organics (Over C28-C36) <50.0 U mg/Kg 02/24/22 15:51 02/24/22 21:01

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	02/24/22 15:51	02/24/22 21:01	1
o-Terphenyl	102		70 - 130	02/24/22 15:51	02/24/22 21:01	1

Lab Sample ID: LCS 880-20253/2-A

Matrix: Solid

Analysis Batch: 20195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 20253

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1000 808.4 81 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 1000 1182 Diesel Range Organics (Over 118 70 - 130mg/Kg

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	132	S1+	70 - 130
o-Terphenyl	136	S1+	70 - 130

C10-C28)

o-Terphenyl

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11

SDG: 31403360.03

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

Lab Sample ID: LCSD 880-20253/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 20195** Prep Batch: 20253 Spike LCSD LCSD RPD Added RPD Limit Analyte Result Qualifier Unit %Rec Limits D Gasoline Range Organics 1000 876.2 mg/Kg 88 70 - 130 8 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1084 108 70 - 130 mg/Kg 9 20

LCSD LCSD %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 113

128

Lab Sample ID: 880-11670-A-1-D MS Client Sample ID: Matrix Spike

70 - 130

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 20195** Prep Batch: 20253

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1000 Gasoline Range Organics <50.0 U 1187 mg/Kg 114 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 1120 mg/Kg 112 70 - 130 C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 69 S1-70 - 130 o-Terphenyl 73 70 - 130

Lab Sample ID: 880-11670-A-1-E MSD

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 20195** Prep Batch: 20253

Sample Sample Spike MSD MSD %Rec. RPD Limit Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD <50.0 U 998 1007 20 Gasoline Range Organics 97 70 - 130 16 mg/Kg (GRO)-C6-C10 <50.0 U 998 1187 mg/Kg 119 20 Diesel Range Organics (Over 70 - 130 6 C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 82 70 - 130 77 70 - 130 o-Terphenyl

Lab Sample ID: MB 880-20293/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 20308 Prep Batch: 20293 MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/25/22 08:25	02/25/22 12:36	1

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Client Sample ID: Matrix Spike Duplicate

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11

SDG: 31403360.03

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

Lab Sample ID: MB 880-20293/1-A

Matrix: Solid

Analysis Batch: 20308

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20293

%Recovery	Qualifier	Limits	

MB MB

Surrogate	76Recovery	Qualifier	LIIIIII		Frepareu	Allalyzeu	DII Fac
1-Chlorooctane	105		70 - 130	- 0	02/25/22 08:25	02/25/22 12:36	1
o-Terphenyl	115		70 - 130	C	02/25/22 08:25	02/25/22 12:36	1

Lab Sample ID: LCS 880-20293/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 20308

Prep Type: Total/NA

Prep Batch: 20293

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	797.2		mg/Kg		80	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	928.5		mg/Kg		93	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	80		70 - 130		
o-Terphenyl	81		70 - 130		

Lab Sample ID: LCSD 880-20293/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 20308

Prep Type: Total/NA

Prep Batch: 20293

	Бріке	LCSD	LC2D				%Rec.		KPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	821.5		mg/Kg		82	70 - 130	3	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1019		mg/Kg		102	70 - 130	9	20
C10-C28)									

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	104	70 - 130

Lab Sample ID: 890-2004-A-1-E MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Total/NA

Analysis Batch: 20308

Prep Batch: 20293

	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	1000	1240		mg/Kg		124	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1269		mg/Kg		127	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	81	70 - 130

Prep Batch: 20293

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Lab Sample ID: 890-2004-A-1-F MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 20308

Sample Sample MSD MSD RPD Spike Result Qualifier Analyte Added Result Qualifier %Rec Limits RPD Limit Unit D Gasoline Range Organics <50.0 U 998 1205 mg/Kg 121 70 - 130 3 20 (GRO)-C6-C10 998 1237 70 - 130Diesel Range Organics (Over <50.0 U mg/Kg 124 3 20

C10-C28)

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 92 o-Terphenyl 80 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20217/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 20409

MB MB

Result Qualifier RL Unit Analyte D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 02/27/22 12:29

Lab Sample ID: LCS 880-20217/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 20409

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 252.6 90 - 110 mg/Kg 101

Lab Sample ID: LCSD 880-20217/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 20409

Spike LCSD LCSD RPD %Rec. Analyte Added Result Qualifier Unit %Rec RPD Limit Chloride 250 252.6 101 90 - 110 mg/Kg 0

Lab Sample ID: 890-2003-5 MS Client Sample ID: BH09 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 20409

Sample Sample Spike MS MS %Rec. Qualifier Added Qualifier Analyte Result Result Unit %Rec Limits Chloride 253 99 90 - 110 365 614.6 mg/Kg

Lab Sample ID: 890-2003-5 MSD Client Sample ID: BH09 **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 20409

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added Result Result Qualifier %Rec Limits RPD Limit Analyte Unit D Chloride 253 365 611.6 97 90 - 110 20 mg/Kg

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Prep Type: Soluble

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

GC VOA

Analysis Batch: 20453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	Total BTEX	
890-2003-2	BH07	Total/NA	Solid	Total BTEX	
890-2003-3	BH08	Total/NA	Solid	Total BTEX	
890-2003-4	BH08	Total/NA	Solid	Total BTEX	
890-2003-5	BH09	Total/NA	Solid	Total BTEX	
890-2003-6	BH09	Total/NA	Solid	Total BTEX	
890-2003-7	BH10	Total/NA	Solid	Total BTEX	
890-2003-8	BH10	Total/NA	Solid	Total BTEX	
890-2003-9	BH11	Total/NA	Solid	Total BTEX	
890-2003-10	BH11	Total/NA	Solid	Total BTEX	

Prep Batch: 20526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-5	BH09	Total/NA	Solid	5035	<u> </u>
890-2003-6	BH09	Total/NA	Solid	5035	
890-2003-7	BH10	Total/NA	Solid	5035	
890-2003-8	BH10	Total/NA	Solid	5035	
890-2003-9	BH11	Total/NA	Solid	5035	
890-2003-10	BH11	Total/NA	Solid	5035	
MB 880-20526/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20526/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20526/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2009-A-3-G MS	Matrix Spike	Total/NA	Solid	5035	
890-2009-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-5	BH09	Total/NA	Solid	8021B	20526
890-2003-6	BH09	Total/NA	Solid	8021B	20526
890-2003-7	BH10	Total/NA	Solid	8021B	20526
890-2003-8	BH10	Total/NA	Solid	8021B	20526
890-2003-9	BH11	Total/NA	Solid	8021B	20526
890-2003-10	BH11	Total/NA	Solid	8021B	20526
MB 880-20526/5-A	Method Blank	Total/NA	Solid	8021B	20526
LCS 880-20526/1-A	Lab Control Sample	Total/NA	Solid	8021B	20526
LCSD 880-20526/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20526
890-2009-A-3-G MS	Matrix Spike	Total/NA	Solid	8021B	20526
890-2009-A-3-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20526

Prep Batch: 20605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2003-1	BH07	Total/NA	Solid	5035	
890-2003-2	BH07	Total/NA	Solid	5035	
890-2003-3	BH08	Total/NA	Solid	5035	
890-2003-4	BH08	Total/NA	Solid	5035	
MB 880-20605/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20605/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20605/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11907-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-11907-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

GC VOA

Analysis Batch: 20710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8021B	20605
890-2003-2	BH07	Total/NA	Solid	8021B	20605
890-2003-3	BH08	Total/NA	Solid	8021B	20605
890-2003-4	BH08	Total/NA	Solid	8021B	20605
CB MB	Method Blank	Total/NA	Solid	8021B	
MB 880-20605/5-A	Method Blank	Total/NA	Solid	8021B	20605
LCS 880-20605/1-A	Lab Control Sample	Total/NA	Solid	8021B	20605
LCSD 880-20605/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20605
880-11907-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	20605
880-11907-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20605

GC Semi VOA

Analysis Batch: 20195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015B NM	20253
890-2003-2	BH07	Total/NA	Solid	8015B NM	20253
890-2003-3	BH08	Total/NA	Solid	8015B NM	20253
890-2003-4	BH08	Total/NA	Solid	8015B NM	20253
890-2003-5	BH09	Total/NA	Solid	8015B NM	20253
890-2003-6	BH09	Total/NA	Solid	8015B NM	20253
890-2003-7	BH10	Total/NA	Solid	8015B NM	20253
890-2003-8	BH10	Total/NA	Solid	8015B NM	20253
MB 880-20253/1-A	Method Blank	Total/NA	Solid	8015B NM	20253
LCS 880-20253/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20253
LCSD 880-20253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20253
880-11670-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	20253
880-11670-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20253

Prep Batch: 20253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015NM Prep	
890-2003-2	BH07	Total/NA	Solid	8015NM Prep	
890-2003-3	BH08	Total/NA	Solid	8015NM Prep	
890-2003-4	BH08	Total/NA	Solid	8015NM Prep	
890-2003-5	BH09	Total/NA	Solid	8015NM Prep	
890-2003-6	BH09	Total/NA	Solid	8015NM Prep	
890-2003-7	BH10	Total/NA	Solid	8015NM Prep	
890-2003-8	BH10	Total/NA	Solid	8015NM Prep	
MB 880-20253/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20253/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20253/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11670-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11670-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 20293

Lab S	Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2	003-9	BH11	Total/NA	Solid	8015NM Prep
890-2	003-10	BH11	Total/NA	Solid	8015NM Prep
MB 88	80-20293/1-A	Method Blank	Total/NA	Solid	8015NM Prep
LCS 8	380-20293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep

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Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

GC Semi VOA (Continued)

Prep Batch: 20293 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2004-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2004-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-9	BH11	Total/NA	Solid	8015B NM	20293
890-2003-10	BH11	Total/NA	Solid	8015B NM	20293
MB 880-20293/1-A	Method Blank	Total/NA	Solid	8015B NM	20293
LCS 880-20293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20293
LCSD 880-20293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20293
890-2004-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	20293
890-2004-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20293

Analysis Batch: 20341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Total/NA	Solid	8015 NM	_
890-2003-2	BH07	Total/NA	Solid	8015 NM	
890-2003-3	BH08	Total/NA	Solid	8015 NM	
890-2003-4	BH08	Total/NA	Solid	8015 NM	
890-2003-5	BH09	Total/NA	Solid	8015 NM	
890-2003-6	BH09	Total/NA	Solid	8015 NM	
890-2003-7	BH10	Total/NA	Solid	8015 NM	
890-2003-8	BH10	Total/NA	Solid	8015 NM	
890-2003-9	BH11	Total/NA	Solid	8015 NM	
890-2003-10	BH11	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 20217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Soluble	Solid	DI Leach	
890-2003-2	BH07	Soluble	Solid	DI Leach	
890-2003-3	BH08	Soluble	Solid	DI Leach	
890-2003-4	BH08	Soluble	Solid	DI Leach	
890-2003-5	BH09	Soluble	Solid	DI Leach	
890-2003-6	BH09	Soluble	Solid	DI Leach	
890-2003-7	BH10	Soluble	Solid	DI Leach	
890-2003-8	BH10	Soluble	Solid	DI Leach	
890-2003-9	BH11	Soluble	Solid	DI Leach	
890-2003-10	BH11	Soluble	Solid	DI Leach	
MB 880-20217/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2003-5 MS	BH09	Soluble	Solid	DI Leach	
890-2003-5 MSD	BH09	Soluble	Solid	DI Leach	

Analysis Batch: 20409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-1	BH07	Soluble	Solid	300.0	20217
890-2003-2	BH07	Soluble	Solid	300.0	20217

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 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

HPLC/IC (Continued)

Analysis Batch: 20409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2003-3	BH08	Soluble	Solid	300.0	20217
890-2003-4	BH08	Soluble	Solid	300.0	20217
890-2003-5	BH09	Soluble	Solid	300.0	20217
890-2003-6	BH09	Soluble	Solid	300.0	20217
890-2003-7	BH10	Soluble	Solid	300.0	20217
890-2003-8	BH10	Soluble	Solid	300.0	20217
890-2003-9	BH11	Soluble	Solid	300.0	20217
890-2003-10	BH11	Soluble	Solid	300.0	20217
MB 880-20217/1-A	Method Blank	Soluble	Solid	300.0	20217
LCS 880-20217/2-A	Lab Control Sample	Soluble	Solid	300.0	20217
LCSD 880-20217/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20217
890-2003-5 MS	BH09	Soluble	Solid	300.0	20217
890-2003-5 MSD	BH09	Soluble	Solid	300.0	20217

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Job ID: 890-2003-1

SDG: 31403360.03

Client: WSP USA Inc.
Project/Site: RDU 11

Client Sample ID: BH07 Lab Sample ID: 890-2003-1

Date Collected: 02/18/22 10:45

Date Received: 02/23/22 11:26

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			5.02 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 02:32	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 14:24	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-2003-2

Date Collected: 02/18/22 10:55

Date Received: 02/23/22 11:26

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 20605 Total/NA Prep 4.96 g 5 mL 03/02/22 16:00 KL XEN MID Total/NA 8021B 5 mL 03/03/22 02:59 XEN MID Analysis 1 5 mL 20710 MR Total/NA Total BTEX 20453 02/28/22 10:23 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 20341 02/25/22 15:07 XEN MID Total/NA 20253 XEN MID Prep 8015NM Prep 10.03 g 02/24/22 15:51 DM 10 mL Total/NA Analysis 8015B NM 20195 02/25/22 03:35 AJ XEN MID Soluble XEN MID Leach DI Leach 5 g 50 mL 20217 02/24/22 12:03 CH Soluble Analysis 300.0 20409 02/27/22 14:33 CH XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2003-3

Date Collected: 02/18/22 11:00 Matrix: Solid
Date Received: 02/23/22 11:26

	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	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 03:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 14:42	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2003-4

Date Collected: 02/18/22 11:10

Date Received: 02/23/22 11:26

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			5.03 g	5 mL	20605	03/02/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20710	03/03/22 03:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID

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Client: WSP USA Inc.
Project/Site: RDU 11

Job ID: 890-2003-1 SDG: 31403360.03

Lab Sample ID: 890-2003-4

Matrix: Solid

Client Sample ID: BH08
Date Collected: 02/18/22 11:10
Date Received: 02/23/22 11:26

	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			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:51	CH	XEN MID

Lab Sample ID: 890-2003-5

Lab Sample ID. 090-2003-3

Matrix: Solid

Date Collected: 02/18/22 12:30 Date Received: 02/23/22 11:26

Client Sample ID: BH09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:15	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 14:59	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2003-6

Date Collected: 02/18/22 12:45

Date Received: 02/23/22 11:26

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			5.00 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 05:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 15:26	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2003-7

Date Collected: 02/18/22 13:05 Date Received: 02/23/22 11:26

_	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	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 22:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		5	10.01 g	10 mL	20253 20195	02/24/22 15:51 02/25/22 05:38	DM AJ	XEN MID XEN MID

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Matrix: Solid

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Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

Client Sample ID: BH10 Lab Sample ID: 890-2003-7

Date Collected: 02/18/22 13:05 Matrix: Solid Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	20217	02/24/22 12:03	СН	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 15:35	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2003-8

Date Collected: 02/18/22 13:20 **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	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20253	02/24/22 15:51	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20195	02/25/22 04:36	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		50			20409	02/27/22 16:01	CH	XEN MID

Client Sample ID: BH11 Lab Sample ID: 890-2003-9

Date Collected: 02/18/22 13:30 **Matrix: Solid** Date Received: 02/23/22 11:26

	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	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20308	02/25/22 17:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			20409	02/27/22 16:10	CH	XEN MID

Client Sample ID: BH11 Lab Sample ID: 890-2003-10

Date Collected: 02/18/22 13:45 **Matrix: Solid** Date Received: 02/23/22 11:26

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20526	03/01/22 08:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20577	03/01/22 23:57	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			20453	02/28/22 10:23	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20341	02/25/22 15:07	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20293	02/25/22 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20308	02/25/22 17:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	20217	02/24/22 12:03	CH	XEN MID
Soluble	Analysis	300.0		5			20409	02/27/22 16:19	CH	XEN MID

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Date Received: 02/23/22 11:26

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDU 11 Job ID: 890-2003-1 SDG: 31403360.03

Laboratory References:

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

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report by			and the state of the contract
the agency does not of	• '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
,	• '	Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

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Method Summary

Client: WSP USA Inc. Job ID: 890-2003-1 Project/Site: RDU 11 SDG: 31403360.03

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Released to Imaging: 6/6/2024 1:35:55 PM

Sample Summary

 Client: WSP USA Inc.
 Job ID: 890-2003-1

 Project/Site: RDU 11
 SDG: 31403360.03

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2003-1	BH07	Solid	02/18/22 10:45	02/23/22 11:26	0.5
890-2003-2	BH07	Solid	02/18/22 10:55	02/23/22 11:26	4
890-2003-3	BH08	Solid	02/18/22 11:00	02/23/22 11:26	0.5
890-2003-4	BH08	Solid	02/18/22 11:10	02/23/22 11:26	4
890-2003-5	BH09	Solid	02/18/22 12:30	02/23/22 11:26	0.5
890-2003-6	BH09	Solid	02/18/22 12:45	02/23/22 11:26	4
890-2003-7	BH10	Solid	02/18/22 13:05	02/23/22 11:26	0.5
890-2003-8	BH10	Solid	02/18/22 13:20	02/23/22 11:26	4
890-2003-9	BH11	Solid	02/18/22 13:30	02/23/22 11:26	0.5
890-2003-10	BH11	Solid	02/18/22 13:45	02/23/22 11:26	4

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Chain of Custody

Revised Date 051418 Rev 2018 1		6							
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Date/Time) Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Dg	ature)	Received by: (Signature)) Re	y: (Signature)	Relinquished by: (Signature)
	due to circumstances beyond the control orced unless previously negotiated.		(penses incurred b	losses or e	responsibility for any \$5 for each sample su	shall not assume any roject and a charge of	t of samples and applied to each p	liable only for the cos	of service. Xenco will be
	ms and conditions	Circle Method(s) and Metal(s) to be analyzed ICLP / SPLP 6010: 8HCHA SD AS BA BE CO CI CO CU PD MIT MO IN SE A9 delice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard ter	AS Ba Be Cany to Xenco, its aff	CHA SD	Utes a valid purchase order from client	es constitutes a valid	to be analyzi	Circle Method(s) and Metal(s) to be analyzed signature of this document and relinquishment of samples	Circle Methor
Na Sr Tl Sn U V Zn	Mo Ni K Se Ag SiO2	Cd Ca Cr Co Cu Fe	As Ba Be	_	13PPM Texas 11	<u>ه</u>	020:	010 200.8 / 6020:	Total 200.7 / 6010
Discrete			×	×	4'	2/18/2022 13:45	S 2/1	11	BH11
Discrete			×	×	0.5	2/18/2022 13:30	S 2/1	1	BH11
Discrete			×	×	4:	02/18/22 13:20	S 0	10	BH10
Discrete			×	- -	0.5'	02/18/22 13:05	S 0	10	ВН10
Discrete			×	×	4	02/18/22 12:45	S	99	ВН09
Discrete			×	×	0.5'	02/18/22 12:30	S 0	99	вноэ
Discrete			×	×	4.	02/18/22 11:10		08	ВН08
Discrete			×	×	0.5	02/18/22 11:00	S 0	08	ВН08
Discrete			×	1 ×	4_	02/18/22 10:55	0	07	ВН07
Discrete			×	×	0.5'	02/18/22 10:45	S 0	07	ВН07
Sample Comments	Sar		BTEX	Numb	Depth	Date Time Sampled Sampled	Matrix Sa	ntification	Sample Identification
idu, il received by T.Oopen	iau		(EPA		ors:	lotal Containers		als: Yes No	Sample Custody Seals:
TAT starts the day recevied by the	TAT star		A 0=8		tor: -0 · 'C	Correction Factor:		Yes	Cooler Custody Seals:
	890-2003 Chain of Custody	890-2003	3021		7	COO SALVE	No	(Yes	Heceived Intact:
				ainer	der ID	Thermometer ID	9	1-0	Temperature (°C):
				8	ce: (Xey No	No Wet Ice:	Temp Blank: (Yes)		SAMPLE RECEIPT
API:PA.2021.04159.EXP.01	API:P				Due Date:	0		Gilbert Moreno	Sampler's Name:
CC:1137631001					Rush:	B)728755	Napp2200728755	P.O. Number:
					Routine 4	B	31403360.03	(3)	Project Number:
Work Order Notes		ANALYSIS REQUEST			Turn Around			RDU 11	Project Name:
Other:	Deliverables: EDD ADaPi	0	@wsp.com	na.Byers	Email: Address: Anna.Byers@wsp.com	En		281-702-2329	Phone:
HP (vel V	Level III T/UST		Midland, TX, 79705		City, State ZIP:		705	Midland, TX, 79705	City, State ZIP:
	# 		3300 N A Street	33(Address:			3300 N A Street	Address:
RC Sperfund	Program: UST/PST ☐RP ☐rownfields ☐RC	P	SP	ne: WSP	Company Name:			WSP USA	Company Name:
S	Work Order Comments		Joseph Hernandez		Bill to: (if different)		dez	Joseph Hernandez	Project Manager:
1_ of1_	2000) www.xenco.com ² age_	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (905)794-1295 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	so,TX (915)585-34 5-0900) Atlanta,G	40) EL Pa. \Z (480-35)	land,TX (432-704-54)92-7550) Phoenix,A	Mid Hobbs,NM (575-0	ES	BORATOR	-
		Houston, TX (281) 240-4200 Dallas, FX (214) 902-0300 San Antonio, FX (210) 509-3334	X (214) 902-0300	DO Dallas,	ton, TX (281) 240-420	Hous	0		

Work Order No:

Eurofins Carlsbad

Chain of Custody Record

💸 eurofins

Environment Testing America

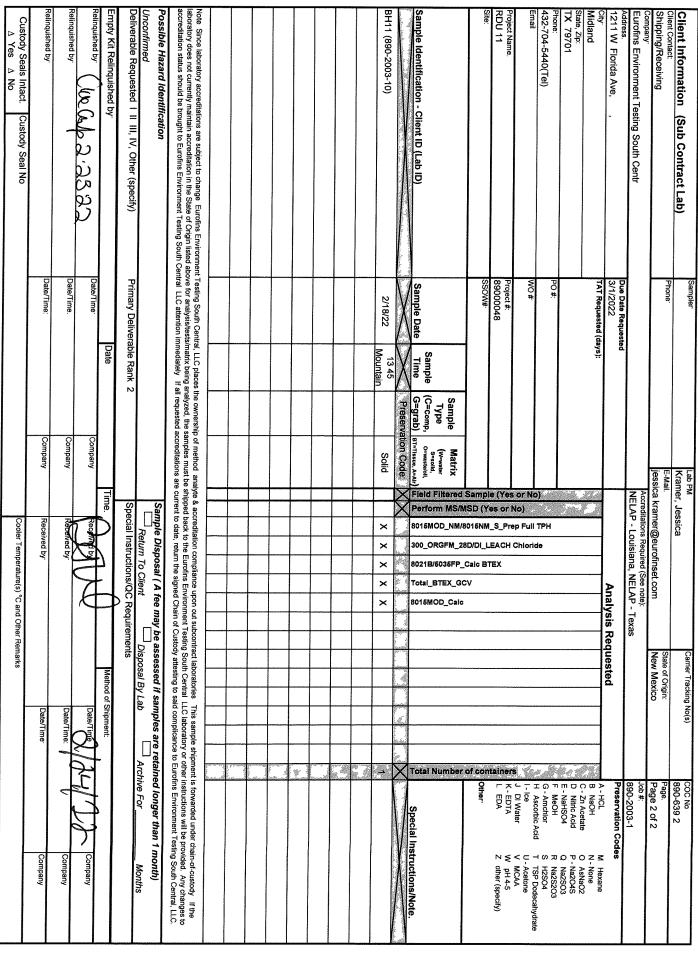
Client Information (Sub Contract Lab)	Sampler		Lab PM Krame	Lab PM Kramer, Jessica			Carrier Tra	Carrier Tracking No(s)	890	COC No: 890-639 1	
- 1	Phone.		E-Mail jessic	ca.kramer@	eurofinset	com	State of Origin New Mexico	igin Kico	Page:	Page: Page 1 of 2	
Company Eurofins Environment Testing South Centr				Accreditations Required (See note): NELAP - Louisiana, NELAP -	Required (Se uisıana, N	e note): ELAP - Texas	L		7-068 # qor	Job #: 890-2003-1	
Address. 1211 W Florida Ave,	Due Date Requested 3/1/2022	0.				Analysis F	Requested		Pra	Preservation Codes.	es.
City: Midland	TAT Requested (days)	ys)·							 C-	A HCL B NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State Zip TX, 79701	I								m 0 (Nitric Acid NaHSO4	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO #				le				ட்டு	G - Amchlor	R Na2S2O3 S H2SO4
Email	WO#			lo)	Chloric					- Ice DI Water	U Acetone V-MCAA
Project Name: RDU 11	Project #: 89000048			s or N					ᅮᄌ	K-EDTA L EDA	W pH 4-5 Z other (specify)
Site:	SSOW#:			(Ye					cont Other:	9	
				MSD	_Calc				Section Section		
		Ф	Sample Matrix Type (W=water S=solid, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste/oli, O=waste	eld Filtered erform MS/I 15MOD_NM/	0_ORGFM_2 21B/5035FP_	tal_BTEX_G			tal Numbei		
Cample Identification - Chent ID (cap ID)	Valiibie Date		Preservation Code:	X F	8				\ \ T	Special in	opecial instructions/Note.
ВН07 (890-2003-1)	2/18/22	10 45 Mountain	Solid	×	×	×		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	_		
ВН07 (890-2003-2)	2/18/22	10 55 Mountain	Solid	×	×	×			*		
ВН08 (890-2003-3)	2/18/22	11 00 Mountain	Solid	×	×	× ×			-3 /		
ВН08 (890-2003-4)	2/18/22	11 10 Mountain	Solid	×	×	× ×			<u> 2</u>		
вноэ (890-2003-5)	2/18/22	12 30 Mountain	Solid	×	×	× ×			4 5		
ВН09 (890-2003-6)	2/18/22	12 45 Mountain	Solid	×	×	× ×			#3		
BH10 (890-2003-7)	2/18/22	13 05 Mountain	Solid	×	× ×	× ×			<u>,4</u> ,		
BH10 (890-2003-8)	2/18/22	13 20 Mountain	Solid	×	×	×					
ВН11 (890-2003-9)	2/18/22	13 30 Mountain	Solid	×	×	×			(1		
Note Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC alternation immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC.	nt Testing South Centra pove for analysis/tests/ entral LLC attention im	al, LLC places th matrix being and mediately If all	e ownership of method and allyzed the samples must be allyzed the samples must be requested accreditations ar	lyte & accredita shipped back t current to date	tion compliar o the Eurofin	ice upon out sub Environment To igned Chain of C	contract laborate esting South Cer bustody attesting	ories This sam ntral LLC labor I to said complic	ple shipment is fo atory or other inst ance to Eurofins	warded under cl ructions will be pr Environment Tes	hain-of-custody If the ovided. Any changes to ting South Central LLC.
Possible Hazard Identification				Sample	Sample Disposal (A f	(A fee may I	Disposal By Lah	if samples	are retained long	ee may be assessed if samples are retained longer than 1 month)	month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2		Special	Special Instructions/QC	s/QC Requirements	ments				
Empty Kit Relinquished by		Date		Time			Meth	Method of Shipment:	,		
Relinquished by ()(M) のうころうころ	Date/Time [.]		Company	Recei	(erb)			Date/Tim	ا م م	4	Company
_	Date/Time:		Company	Received	ved by:			Date/Time:	e.	ľ	Company
Relinquished by	Date/Time:		Company	Rece	Received by:			Date/Time:	ne:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Company
Custody Seals Intact: Custody Seal No				Coole	Cooler Temperature(s)		C and Other Remarks.				

1089 N Canal St

Eurofins Carlsbad

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Phone 575-988-3199 Fax 575-988-3199 Carlsbad, NM 88220 Phone: Sampler Chain of Custody Record Kramer, Jessica essica kramer@eurofinset.com State of Origin: New Mexico Carrier Tracking No(s) 🐫 eurofins COC No 890-639 2 Page 2 of 2 **Environment Testing**



Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2003-1 SDG Number: 31403360.03

List Source: Eurofins Carlsbad

Login Number: 2003 Lis

ogni Hamber. 2000	Elot Gouldo. Eurolino Gullobua
ist Number: 1	

Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2003-1 SDG Number: 31403360.03

Login Number: 2003 **List Source: Eurofins Midland** List Number: 2

List Creation: 02/24/22 12:49 PM

Creator: Teel, Brianna

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	True	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2030-1

Laboratory Sample Delivery Group: 31403360.031

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 3/7/2022 9:27:48 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

lotal Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 6/6/2024 1:35:55 PM

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

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

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Client: WSP USA Inc.

Project/Site: RDU 11

Laboratory Job ID: 890-2030-1

SDG: 31403360.031

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Qualifiers

GC VOA Qualifier **Qualifier Description**

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.

GC Semi VOA

Qualifier **Qualifier Description**

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

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)

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

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

MDL Method Detection Limit Minimum Level (Dioxin) ML 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 Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Job ID: 890-2030-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2030-1

Receipt

The samples were received on 3/1/2022 8:50 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 1.0°C

GC VOA

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

GC Semi VOA

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

HPLC/IC

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: 890-2030-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH12

Date Collected: 02/28/22 10:30 Date Received: 03/01/22 08:50

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:21	
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:21	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:21	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	101		70 - 130				03/06/22 11:15	03/06/22 16:21	
1,4-Difluorobenzene (Surr)	114		70 - 130				03/06/22 11:15	03/06/22 16:21	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 02:31	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 02:31	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 02:31	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130				03/02/22 08:11	03/03/22 02:31	
o-Terphenyl	104		70 - 130				03/02/22 08:11	03/03/22 02:31	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte	0 . ,	Soluble Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac

Client Sample ID: BH12

Date Collected: 02/28/22 10:33 Date Received: 03/01/22 08:50

Date Received: 00/01/22 0

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 16:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	9	S1-	70 - 130				03/06/22 11:15	03/06/22 16:48	1

Eurofins Carlsbad

Lab Sample ID: 890-2030-2

Matrix: Solid

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Lab Sample ID: 890-2030-2

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH12

Date Collected: 02/28/22 10:33 Date Received: 03/01/22 08:50

Sample Depth: 4

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
-------------------------------------------	--------------------

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101	70 - 130	03/06/22 11:15	03/06/22 16:48	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			_	03/07/22 21:30	1

ш				
ш	Method: 8015 NI	A - Diocol Pane	no Organice	(DPO) (GC)

Analyte	Result C	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 L	J	50.0	mg/Kg			03/03/22 12:29	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 03:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/02/22 08:11	03/03/22 03:34	

1-Chlorooctane	99	70 - 130
o-Terphenyl	103	70 - 130

o-Terphenyl	103	70 - 130	03/02/22 08:11	03/03/22 03:34	1
Г ., .,					

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1360	25.0	mg/Kg		_	03/05/22 16:06	5

Client Sample ID: BH13 Lab Sample ID: 890-2030-3 **Matrix: Solid**

Date Collected: 02/28/22 11:20 Date Received: 03/01/22 08:50

Sample Depth: 2

		()							
Analyte	Result	Qualifier	RL	MDL Un	nit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg	g/Kg		03/06/22 11:15	03/06/22 17:15	1
Toluene	<0.00198	U	0.00198	mg	g/Kg		03/06/22 11:15	03/06/22 17:15	1
Ethylbenzene	<0.00198	U	0.00198	mg	g/Kg		03/06/22 11:15	03/06/22 17:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg	g/Kg		03/06/22 11:15	03/06/22 17:15	1
o-Xylene	<0.00198	U	0.00198	mg	g/Kg		03/06/22 11:15	03/06/22 17:15	1
Xylenes, Total	<0.00397	U	0.00397	mg	g/Kg		03/06/22 11:15	03/06/22 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130				03/06/22 11:15	03/06/22 17:15	1
1,4-Difluorobenzene (Surr)	118		70 - 130				03/06/22 11:15	03/06/22 17:15	1

Mothod:	Total RTF	Y - Total R	TFX Calculatio	n

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg		_	03/07/22 21:30	1

Method. 0013 MM - Dieser Kange Organics (DRO) (GC)	Method: 8015 NM - Die	esel Range C	Organics (DRO)	(GC)
----------------------------------------------------	-----------------------	--------------	------------	------	------

Analyte	Result	Qualifier	RL	MDL U	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	n	mg/Kg			03/03/22 12:29	1

Lab Sample ID: 890-2030-3

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13

Date Collected: 02/28/22 11:20 Date Received: 03/01/22 08:50

Sample Depth: 2

Method: 8015B NM - Diesel Rang	, ,	, , ,				_			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/02/22 08:11	03/03/22 03:55	1
o-Terphenyl	112		70 - 130				03/02/22 08:11	03/03/22 03:55	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4430		49.7		mg/Kg			03/05/22 16:18	10

Lab Sample ID: 890-2030-4 **Client Sample ID: BH13** Date Collected: 02/28/22 11:25 **Matrix: Solid**

Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	8	S1-	70 - 130				03/06/22 11:15	03/06/22 17:41	1
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 17:41	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 04:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	95		70 - 130				03/02/22 08:11	03/03/22 04:15	1

Job ID: 890-2030-1

Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13 Lab Sample ID: 890-2030-4 Date Collected: 02/28/22 11:25

Matrix: Solid

Sample Depth: 4

Metho	d: 300.0 - Anions, Ion Chromatography	- Soluble							
Analyte	Resi	lt Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorid	72		49.8		mg/Kg			03/05/22 16:30	10

Client Sample ID: BH14 Lab Sample ID: 890-2030-5

Date Collected: 02/28/22 11:30 Date Received: 03/01/22 08:50

Date Received: 03/01/22 08:50

Sample Depth: 0.5

(GRO)-C6-C10

C10-C28)

Diesel Range Organics (Over

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/06/22 11:15	03/06/22 18:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				03/06/22 11:15	03/06/22 18:08	1
1,4-Difluorobenzene (Surr)	116		70 - 130				03/06/22 11:15	03/06/22 18:08	1

Iotal BTEX	<0.00404	U	0.00404		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Ran	ige Organics (DI	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 04:36	1

MDL Unit

mg/Kg

Prepared

03/02/22 08:11

Analyzed

03/03/22 04:36

Result Qualifier

<50.0 U

Oll Range Organics (Over C28-C36)	<50.0 U	50.0	mg/Kg	03/02/22 08:11	03/03/22 04:36	1
Surrogate	%Recovery Qua	ualifier Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	104	70 - 130		03/02/22 08:11	03/03/22 04:36	1
o-Terphenyl	106	70 - 130		03/02/22 08:11	03/03/22 04:36	1

50.0

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	464		5.00		mg/Kg			03/05/22 16:41	1

Lab Sample ID: 890-2030-6

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH14

Date Collected: 02/28/22 11:35 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/06/22 11:15	03/06/22 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/06/22 11:15	03/06/22 18:35	1
1,4-Difluorobenzene (Surr)	119		70 - 130				03/06/22 11:15	03/06/22 18:35	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	D 14	OII:6:			11!4				
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	<50.0			MDL	mg/Kg	D	Prepared 03/02/22 08:11	Analyzed 03/03/22 04:57	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U		MDL		<u>D</u>	<u>.</u>		
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	MDL	mg/Kg	<u>D</u>	03/02/22 08:11	03/03/22 04:57	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U U	50.0	MDL	mg/Kg	<u>D</u>	03/02/22 08:11	03/03/22 04:57	1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	U U	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	03/02/22 08:11 03/02/22 08:11 03/02/22 08:11	03/03/22 04:57 03/03/22 04:57 03/03/22 04:57	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0 %Recovery	U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 <i>Prepared</i>	03/03/22 04:57 03/03/22 04:57 03/03/22 04:57 Analyzed	1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 <8Recovery 118 120	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 04:57 03/03/22 04:57 03/03/22 04:57 Analyzed 03/03/22 04:57	1 1 1 1 1 Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <50.0 %Recovery 118 120 omatography -	U U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	03/02/22 08:11 03/02/22 08:11 03/02/22 08:11 Prepared 03/02/22 08:11	03/03/22 04:57 03/03/22 04:57 03/03/22 04:57 Analyzed 03/03/22 04:57	1 1 1 1 1 Dil Fac

Client Sample ID: BH15

Date Collected: 02/28/22 11:40 Date Received: 03/01/22 08:50

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/06/22 11:15	03/06/22 19:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1+	70 - 130				03/06/22 11:15	03/06/22 19:02	1

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Matrix: Solid

Lab Sample ID: 890-2030-7

Lab Sample ID: 890-2030-7

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH15

Date Collected: 02/28/22 11:40 Date Received: 03/01/22 08:50

Sample Depth: 0.5

Method: 8021B - Volatile Organic Co	omnounds (GC) (Continued)

Surrogate	%Recovery Qualif	fier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	85	70 - 130	03/06/22 11:15	03/06/22 19:02	1

Method: Total	RTFX - Tota	I RTFX (Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/07/22 21:30	1

ı			
ı	Mothod: 8015 NM -	Diesel Range Organio	e (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/03/22 12:29	1

Method: 8015B NM - Diese	I Range Organics (D	RO) (GC)
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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Di
1-Chlorooctane	97		70 - 130	03/02/22 08:11	03/03/22 05:18	
o-Terphenyl	99		70 - 130	03/02/22 08:11	03/03/22 05:18	

 $\label{eq:method:method:method:method:one} \textbf{Method: 300.0 - Anions, lon Chromatography - Soluble}$

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.5	5.00	mg/Kg			03/05/22 17:05	1

Client Sample ID: BH15 Lab Sample ID: 890-2030-8

Date Collected: 02/28/22 11:50 Date Received: 03/01/22 08:50

Sample Depth: 4

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

Michiga ouz ib - Volatile Orga	inc compounds ((30)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 20:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130				03/06/22 11:15	03/06/22 20:48	1
1,4-Difluorobenzene (Surr)	110		70 - 130				03/06/22 11:15	03/06/22 20:48	1

Mothod:	Total RT	EY - Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		ma/Ka			03/07/22 21:30	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/K	g		03/03/22 12:29	1

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Matrix: Solid

Lab Sample ID: 890-2030-8

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH15

Date Collected: 02/28/22 11:50 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Posult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte				IVIDE			<u>·</u>	Allalyzeu	Dii Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				03/02/22 08:11	03/03/22 05:38	1
o-Terphenyl	111		70 - 130				03/02/22 08:11	03/03/22 05:38	1
- Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	21.4		4.98		mg/Kg			03/05/22 17:41	

Lab Sample ID: 890-2030-9 **Client Sample ID: BH16** Matrix: Solid

Date Collected: 02/28/22 13:20 Date Received: 03/01/22 08:50

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130				03/06/22 11:15	03/06/22 21:15	1
1,4-Difluorobenzene (Surr)	105		70 - 130				03/06/22 11:15	03/06/22 21:15	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:59	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 05:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				03/02/22 08:11	03/03/22 05:59	1
o-Terphenyl	92		70 - 130				03/02/22 08:11	03/03/22 05:59	1

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH16 Lab Sample ID: 890-2030-9

Date Collected: 02/28/22 13:20 Matrix: Solid Date Received: 03/01/22 08:50

Sample Depth: 2

Method: 300.0 - Anions, Ion Chroma	tography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1940		24.8		mg/Kg			03/05/22 17:53	5

Lab Sample ID: 890-2030-10 **Client Sample ID: BH16** Matrix: Solid

Date Collected: 02/28/22 13:25 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	
Toluene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	•
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 21:42	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 21:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 21:42	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	89		70 - 130				03/06/22 11:15	03/06/22 21:42	
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 21:42	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 06:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				03/02/22 08:11	03/03/22 06:19	1
o-Terphenyl	106		70 - 130				03/02/22 08:11	03/03/22 06:19	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4650		50.1		mg/Kg			03/05/22 18:28	10

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Client Sample ID: BH17 Lab Sample ID: 890-2030-11

Date Collected: 02/28/22 14:15

Date Received: 03/01/22 08:50

Matrix: Solid

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/06/22 11:15	03/06/22 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				03/06/22 11:15	03/06/22 22:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130				03/06/22 11:15	03/06/22 22:09	1
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DB)	O) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/03/22 12:29	1
Method: 8015B NM - Diesel Rand	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 07:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 07:01	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/02/22 08:11	03/03/22 07:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				03/02/22 08:11	03/03/22 07:01	1
o-Terphenyl	97		70 - 130				03/02/22 08:11	03/03/22 07:01	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH17

Date Collected: 02/28/22 14:20

Lab Sample ID: 890-2030-12

Matrix: Solid

Date Collected: 02/28/22 14:20 Date Received: 03/01/22 08:50

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/06/22 11:15	03/06/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/06/22 11:15	03/06/22 22:36	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH17 Lab Sample ID: 890-2030-12 Date Collected: 02/28/22 14:20

8280

Matrix: Solid

03/05/22 18:52

Sample Depth: 4

Chloride

Date Received: 03/01/22 08:50

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130				03/06/22 11:15	03/06/22 22:36	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/07/22 21:30	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/03/22 12:29	1
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 07:21	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	ш	50.0		mg/Kg		03/02/22 08:11	03/03/22 07:21	,
C10-C28)	400.0	Ü	30.0		mg/rtg		00/02/22 00:11	00/00/22 07:21	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/02/22 08:11	03/03/22 07:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				03/02/22 08:11	03/03/22 07:21	
o-Terphenyl	103		70 - 130				03/02/22 08:11	03/03/22 07:21	1
1-Chloroctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	99		70 - 130				03/02/22 08:11	03/03/22 07:	21
Analyte		Qualifier	RL		Unit		Prepared	Analyzed	Dil

100

mg/Kg

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-11719-A-1-J MS	Matrix Spike	89	123	
880-11719-A-1-K MSD	Matrix Spike Duplicate	94	124	
890-2030-1	BH12	101	114	
890-2030-2	BH12	9 S1-	101	
890-2030-3	BH13	102	118	
890-2030-4	BH13	8 S1-	108	
890-2030-5	BH14	87	116	
890-2030-6	BH14	106	119	
890-2030-7	BH15	170 S1+	85	
890-2030-8	BH15	94	110	
890-2030-9	BH16	83	105	
890-2030-10	BH16	89	108	
890-2030-11	BH17	99	106	
890-2030-12	BH17	101	108	
LCS 880-20687/1-A	Lab Control Sample	82	116	
LCSD 880-20687/2-A	Lab Control Sample Dup	84	111	
LOOD 000 L00017L 71	Method Blank	51 S1-	108	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2030-1	BH12	100	104	
890-2030-1 MS	BH12	94	100	
890-2030-1 MSD	BH12	99	95	
890-2030-2	BH12	99	103	
890-2030-3	BH13	108	112	
890-2030-4	BH13	95	97	
890-2030-5	BH14	104	106	
890-2030-6	BH14	118	120	
890-2030-7	BH15	97	99	
890-2030-8	BH15	108	111	
890-2030-9	BH16	93	92	
890-2030-10	BH16	105	106	
890-2030-11	BH17	96	97	
890-2030-12	BH17	99	103	
LCS 880-20658/2-A	Lab Control Sample	107	106	
LCSD 880-20658/3-A	Lab Control Sample Dup	106	105	
	Method Blank	112	117	

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OTPH = o-Terphenyl

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20687/5-A

Lab Sample ID: LCS 880-20687/1-A

Matrix: Solid

Analysis Batch: 20977

Matrix: Solid Analysis Batch: 20977 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20687

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/06/22 11:15	03/06/22 14:35	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/06/22 11:15	03/06/22 14:35	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	51	S1-	70 - 130	03/06/22 11:15	03/06/22 14:35	1
1,4-Difluorobenzene (Surr)	108		70 - 130	03/06/22 11:15	03/06/22 14:35	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20687

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08533 mg/Kg 85 70 - 130 Toluene 0.100 0.08536 mg/Kg 85 70 - 130 0.100 0.09079 Ethylbenzene mg/Kg 91 70 - 130 m-Xylene & p-Xylene 0.200 0.1854 93 70 - 130 mg/Kg 0.100 0.09200 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qua	lifier Limits
4-Bromofluorobenzene (Surr)	82	70 - 130
1,4-Difluorobenzene (Surr)	116	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 20977

Lab Sample ID: LCSD 880-20687/2-A

Prep Type: Total/NA Prep Batch: 20687

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09073		mg/Kg		91	70 - 130	6	35	
Toluene	0.100	0.08702		mg/Kg		87	70 - 130	2	35	
Ethylbenzene	0.100	0.09419		mg/Kg		94	70 - 130	4	35	
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130	4	35	
o-Xylene	0.100	0.09334		mg/Kg		93	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	84	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

Lab Sample ID: 880-11719-A-1-J MS

Matrix: Solid

Analysis Batch: 20977

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20687

		Sample	Sample	Spike	MS	MS				%Rec.	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	<0.00199	U	0.0998	0.1035		mg/Kg	_	104	70 - 130	
ı	Toluene	<0.00199	U	0.0998	0.09757		mg/Kg		98	70 - 130	

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2

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7

9

44

12

Client Sample ID: Matrix Spike

70 - 130

Client Sample ID: Matrix Spike Duplicate

70 - 130

70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20658

106

110

107

Prep Type: Total/NA

Prep Type: Total/NA

5

3

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

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

<0.00199 U

Lab Sample ID: 880-11719-A-1-J MS

Matrix: Solid Analysis Batch: 20977

o-Xylene

Prep Batch: 20687 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits < 0.00199 U 0.0998 0.1035 104 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00398 0.200 0.2115 mg/Kg 106 70 - 130

0.1057

0.2216

0.1086

mg/Kg

mg/Kg

mg/Kg

0.0998

MS MS

Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 89 1,4-Difluorobenzene (Surr) 70 - 130 123

Lab Sample ID: 880-11719-A-1-K MSD

Matrix: Solid

Analysis Batch: 20977

m-Xylene & p-Xylene

Prep Batch: 20687 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00199 U 0.101 0.1073 mg/Kg 106 70 - 130 4 35 Toluene <0.00199 0.101 0.1009 mg/Kg 100 70 - 130 3 35 Ethylbenzene <0.00199 0.101 0.1083 107 70 - 130 35 U mg/Kg 5

0.202

0 101

70 - 130

o-Xylene MSD MSD Qualifier Limits Surrogate %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 94

<0.00398

<0.00199 U

124

U

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

Lab Sample ID: MB 880-20658/1-A

Matrix: Solid

Analysis Batch: 20655

1,4-Difluorobenzene (Surr)

мв мв Result Qualifier RL MDL Unit D Prepared Dil Fac Analyte Analyzed 03/02/22 08:11 <50.0 U 50.0 03/03/22 01:28 Gasoline Range Organics mg/Kg (GRO)-C6-C10 03/02/22 08:11 03/03/22 01:28 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 03/02/22 08:11 03/03/22 01:28 mg/Kg

MB MB

%Recovery Limits Qualifier Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 112 70 - 130 03/02/22 08:11 03/03/22 01:28 117 70 - 130 03/02/22 08:11 03/03/22 01:28 o-Terphenyl

Lab Sample ID: LCS 880-20658/2-A

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 20655** Prep Batch: 20658

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	930.2	-	mg/Kg		93	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	852.2		mg/Kg		85	70 - 130	
C10-C28)								

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35

Job ID: 890-2030-1

SDG: 31403360.031

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

Lab Sample ID: LCS 880-20658/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Client: WSP USA Inc. Project/Site: RDU 11

Analysis Batch: 20655

Prep Type: Total/NA Prep Batch: 20658

LCS LCS %Recovery Qualifier Surrogate Limits 1-Chlorooctane 107 70 - 130 o-Terphenyl 106 70 - 130

Lab Sample ID: LCSD 880-20658/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 20655

Prep Type: Total/NA

Prep Batch: 20658

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 70 - 130 Gasoline Range Organics 1000 971.8 97 20 mg/Kg 4 (GRO)-C6-C10 Diesel Range Organics (Over 1000 874.2 mg/Kg 87 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 890-2030-1 MS Client Sample ID: BH12 **Matrix: Solid**

Analysis Batch: 20655

Prep Type: Total/NA

Prep Batch: 20658

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	1077		mg/Kg		105	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U	1000	943.7		mg/Kg		94	70 - 130	
C10-C28)										

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 94 o-Terphenyl 100 70 - 130

Lab Sample ID: 890-2030-1 MSD Client Sample ID: BH12 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 20655 Prep Batch: 20658

	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	998	1086		mg/Kg		106	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	910.9		mg/Kg		91	70 - 130	4	20	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

%Rec

103

%Rec.

Limits

90 - 110

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

RPD

Prep Type: Soluble

Client Sample ID: BH15

Client Sample ID: BH15

Prep Type: Soluble

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20681/1-A

Matrix: Solid

Analysis Batch: 20963

MB MB

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 03/05/22 13:14
 1

Lab Sample ID: LCS 880-20681/2-A

Matrix: Solid

Analysis Batch: 20963

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.8 mg/Kg 102 90 - 110

Added

250

Result Qualifier

257.4

Unit

mg/Kg

Lab Sample ID: LCSD 880-20681/3-A

Matrix: Solid

Analysis Batch: 20963

Spike LCSD LCSD

- -

Lab Sample ID: 890-2030-7 MS

Matrix: Solid

Analyte

Chloride

Analysis Batch: 20963

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 316.5 Chloride 77.5 250 96 90 - 110 mg/Kg

Lab Sample ID: 890-2030-7 MSD

Matrix: Solid

Analysis Batch: 20963

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 77.5 321.4 mg/Kg 98 90 - 110 20

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Limit

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 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

GC VOA

Prep Batch: 20687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	5035	
890-2030-2	BH12	Total/NA	Solid	5035	
890-2030-3	BH13	Total/NA	Solid	5035	
890-2030-4	BH13	Total/NA	Solid	5035	
890-2030-5	BH14	Total/NA	Solid	5035	
890-2030-6	BH14	Total/NA	Solid	5035	
890-2030-7	BH15	Total/NA	Solid	5035	
890-2030-8	BH15	Total/NA	Solid	5035	
890-2030-9	BH16	Total/NA	Solid	5035	
890-2030-10	BH16	Total/NA	Solid	5035	
890-2030-11	BH17	Total/NA	Solid	5035	
890-2030-12	BH17	Total/NA	Solid	5035	
MB 880-20687/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20687/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20687/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11719-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	
880-11719-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 20977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	8021B	20687
890-2030-2	BH12	Total/NA	Solid	8021B	20687
890-2030-3	BH13	Total/NA	Solid	8021B	20687
890-2030-4	BH13	Total/NA	Solid	8021B	20687
890-2030-5	BH14	Total/NA	Solid	8021B	20687
890-2030-6	BH14	Total/NA	Solid	8021B	20687
890-2030-7	BH15	Total/NA	Solid	8021B	20687
890-2030-8	BH15	Total/NA	Solid	8021B	20687
890-2030-9	BH16	Total/NA	Solid	8021B	20687
890-2030-10	BH16	Total/NA	Solid	8021B	20687
890-2030-11	BH17	Total/NA	Solid	8021B	20687
890-2030-12	BH17	Total/NA	Solid	8021B	20687
MB 880-20687/5-A	Method Blank	Total/NA	Solid	8021B	20687
LCS 880-20687/1-A	Lab Control Sample	Total/NA	Solid	8021B	20687
LCSD 880-20687/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20687
880-11719-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	20687
880-11719-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20687

Analysis Batch: 21059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	Total BTEX	
890-2030-2	BH12	Total/NA	Solid	Total BTEX	
890-2030-3	BH13	Total/NA	Solid	Total BTEX	
890-2030-4	BH13	Total/NA	Solid	Total BTEX	
890-2030-5	BH14	Total/NA	Solid	Total BTEX	
890-2030-6	BH14	Total/NA	Solid	Total BTEX	
890-2030-7	BH15	Total/NA	Solid	Total BTEX	
890-2030-8	BH15	Total/NA	Solid	Total BTEX	
890-2030-9	BH16	Total/NA	Solid	Total BTEX	
890-2030-10	BH16	Total/NA	Solid	Total BTEX	
890-2030-11	BH17	Total/NA	Solid	Total BTEX	

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

GC VOA (Continued)

Analysis Batch: 21059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-12	BH17	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 20655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Total/NA	Solid	8015B NM	20658
890-2030-2	BH12	Total/NA	Solid	8015B NM	20658
890-2030-3	BH13	Total/NA	Solid	8015B NM	20658
890-2030-4	BH13	Total/NA	Solid	8015B NM	20658
890-2030-5	BH14	Total/NA	Solid	8015B NM	20658
890-2030-6	BH14	Total/NA	Solid	8015B NM	20658
890-2030-7	BH15	Total/NA	Solid	8015B NM	20658
890-2030-8	BH15	Total/NA	Solid	8015B NM	20658
890-2030-9	BH16	Total/NA	Solid	8015B NM	20658
890-2030-10	BH16	Total/NA	Solid	8015B NM	20658
890-2030-11	BH17	Total/NA	Solid	8015B NM	20658
890-2030-12	BH17	Total/NA	Solid	8015B NM	20658
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015B NM	20658
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20658
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20658
890-2030-1 MS	BH12	Total/NA	Solid	8015B NM	20658
890-2030-1 MSD	BH12	Total/NA	Solid	8015B NM	20658

Prep Batch: 20658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2030-1	BH12	Total/NA	Solid	8015NM Prep	
890-2030-2	BH12	Total/NA	Solid	8015NM Prep	
890-2030-3	BH13	Total/NA	Solid	8015NM Prep	
890-2030-4	BH13	Total/NA	Solid	8015NM Prep	
890-2030-5	BH14	Total/NA	Solid	8015NM Prep	
890-2030-6	BH14	Total/NA	Solid	8015NM Prep	
890-2030-7	BH15	Total/NA	Solid	8015NM Prep	
890-2030-8	BH15	Total/NA	Solid	8015NM Prep	
890-2030-9	BH16	Total/NA	Solid	8015NM Prep	
890-2030-10	BH16	Total/NA	Solid	8015NM Prep	
890-2030-11	BH17	Total/NA	Solid	8015NM Prep	
890-2030-12	BH17	Total/NA	Solid	8015NM Prep	
MB 880-20658/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20658/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20658/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2030-1 MS	BH12	Total/NA	Solid	8015NM Prep	
890-2030-1 MSD	BH12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 20812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
890-2030-1	BH12	Total/NA	Solid	8015 NM
890-2030-2	BH12	Total/NA	Solid	8015 NM
890-2030-3	BH13	Total/NA	Solid	8015 NM
890-2030-4	BH13	Total/NA	Solid	8015 NM
890-2030-5	BH14	Total/NA	Solid	8015 NM

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

GC Semi VOA (Continued)

Analysis Batch: 20812 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-6	BH14	Total/NA	Solid	8015 NM	
890-2030-7	BH15	Total/NA	Solid	8015 NM	
890-2030-8	BH15	Total/NA	Solid	8015 NM	
890-2030-9	BH16	Total/NA	Solid	8015 NM	
890-2030-10	BH16	Total/NA	Solid	8015 NM	
890-2030-11	BH17	Total/NA	Solid	8015 NM	
890-2030-12	BH17	Total/NA	Solid	8015 NM	

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Leach Batch: 20681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Soluble	Solid	DI Leach	_
890-2030-2	BH12	Soluble	Solid	DI Leach	
890-2030-3	BH13	Soluble	Solid	DI Leach	
890-2030-4	BH13	Soluble	Solid	DI Leach	
890-2030-5	BH14	Soluble	Solid	DI Leach	
890-2030-6	BH14	Soluble	Solid	DI Leach	
890-2030-7	BH15	Soluble	Solid	DI Leach	
890-2030-8	BH15	Soluble	Solid	DI Leach	
890-2030-9	BH16	Soluble	Solid	DI Leach	
890-2030-10	BH16	Soluble	Solid	DI Leach	
890-2030-11	BH17	Soluble	Solid	DI Leach	
890-2030-12	BH17	Soluble	Solid	DI Leach	
MB 880-20681/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20681/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20681/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2030-7 MS	BH15	Soluble	Solid	DI Leach	
890-2030-7 MSD	BH15	Soluble	Solid	DI Leach	

Analysis Batch: 20963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2030-1	BH12	Soluble	Solid	300.0	20681
890-2030-2	BH12	Soluble	Solid	300.0	20681
890-2030-3	BH13	Soluble	Solid	300.0	20681
890-2030-4	BH13	Soluble	Solid	300.0	20681
890-2030-5	BH14	Soluble	Solid	300.0	20681
890-2030-6	BH14	Soluble	Solid	300.0	20681
890-2030-7	BH15	Soluble	Solid	300.0	20681
890-2030-8	BH15	Soluble	Solid	300.0	20681
890-2030-9	BH16	Soluble	Solid	300.0	20681
890-2030-10	BH16	Soluble	Solid	300.0	20681
890-2030-11	BH17	Soluble	Solid	300.0	20681
890-2030-12	BH17	Soluble	Solid	300.0	20681
MB 880-20681/1-A	Method Blank	Soluble	Solid	300.0	20681
LCS 880-20681/2-A	Lab Control Sample	Soluble	Solid	300.0	20681
LCSD 880-20681/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20681
890-2030-7 MS	BH15	Soluble	Solid	300.0	20681
890-2030-7 MSD	BH15	Soluble	Solid	300.0	20681

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SDG: 31403360.031

Client Sample ID: BH12

Client: WSP USA Inc.

Project/Site: RDU 11

Lab Sample ID: 890-2030-1

Matrix: Solid

Date Collected: 02/28/22 10:30 Date Received: 03/01/22 08:50

	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	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 16:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	20658 20655	03/02/22 08:11 03/03/22 02:31	DM AJ	XEN MID XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	СН	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 15:30	SC	XEN MID

Client Sample ID: BH12 Lab Sample ID: 890-2030-2

Date Collected: 02/28/22 10:33 Matrix: Solid

Date Received: 03/01/22 08:50

	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	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 16:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 03:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 16:06	SC	XEN MID

Client Sample ID: BH13 Lab Sample ID: 890-2030-3

Date Collected: 02/28/22 11:20 **Matrix: Solid** Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 17:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 03:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 16:18	SC	XEN MID

Client Sample ID: BH13 Lab Sample ID: 890-2030-4

Date Collected: 02/28/22 11:25 **Matrix: Solid** Date Received: 03/01/22 08:50

	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	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 17:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH13 Lab Sample ID: 890-2030-4

Date Collected: 02/28/22 11:25 Matrix: Solid Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 16:30	SC	XEN MID

Client Sample ID: BH14 Lab Sample ID: 890-2030-5

Date Collected: 02/28/22 11:30 **Matrix: Solid**

Date Received: 03/01/22 08:50

	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	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 18:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:36	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 16:41	SC	XEN MID

Client Sample ID: BH14 Lab Sample ID: 890-2030-6 Date Collected: 02/28/22 11:35

Date Received: 03/01/22 08:50

	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	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 18:35	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 04:57	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 16:53	SC	XEN MID

Lab Sample ID: 890-2030-7 **Client Sample ID: BH15**

Date Collected: 02/28/22 11:40 Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 19:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	20658 20655	03/02/22 08:11 03/03/22 05:18	DM AJ	XEN MID XEN MID

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Matrix: Solid

Matrix: Solid

Client: WSP USA Inc.

Date Collected: 02/28/22 11:40

Date Received: 03/01/22 08:50

Job ID: 890-2030-1 SDG: 31403360.031

Project/Site: RDU 11 **Client Sample ID: BH15**

Lab Sample ID: 890-2030-7

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Soluble DI Leach 20681 Leach 5 g 50 mL 03/02/22 10:50 СН XEN MID 300.0 03/05/22 17:05 SC Soluble Analysis 1 20963 XEN MID

Client Sample ID: BH15 Lab Sample ID: 890-2030-8

Date Collected: 02/28/22 11:50 Matrix: Solid

Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 20:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 05:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		1			20963	03/05/22 17:41	SC	XEN MID

Client Sample ID: BH16 Lab Sample ID: 890-2030-9

Date Collected: 02/28/22 13:20 **Matrix: Solid** Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 21:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 05:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 17:53	SC	XEN MID

Client Sample ID: BH16 Lab Sample ID: 890-2030-10

Date Received: 03/01/22 08:50

Date Collected: 02/28/22 13:25

	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	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 21:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 06:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		10			20963	03/05/22 18:28	SC	XEN MID

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Matrix: Solid

Released to Imaging: 6/6/2024 1:35:55 PM

Client: WSP USA Inc. Job ID: 890-2030-1 Project/Site: RDU 11 SDG: 31403360.031

Client Sample ID: BH17 Lab Sample ID: 890-2030-11

Date Collected: 02/28/22 14:15 Matrix: Solid Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 22:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 07:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		5			20963	03/05/22 18:40	SC	XEN MID

Client Sample ID: BH17 Lab Sample ID: 890-2030-12

Date Collected: 02/28/22 14:20 Matrix: Solid Date Received: 03/01/22 08:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20687	03/06/22 11:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20977	03/06/22 22:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21059	03/07/22 21:30	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20812	03/03/22 12:29	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20658	03/02/22 08:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20655	03/03/22 07:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20681	03/02/22 10:50	CH	XEN MID
Soluble	Analysis	300.0		20			20963	03/05/22 18:52	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-2030-1

 Project/Site: RDU 11
 SDG: 31403360.031

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for w
the agency does not of	• '	t the laboratory to not contin	ed by the governing additionty. This list the	ay include analytes for w
,	• '	Matrix	Analyte	ay illicitude allalytes for w
the agency does not of	fer certification.	•	, , ,	ay include analytes for w

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Method Summary

Job ID: 890-2030-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.031

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

Page 28 of 33 Released to Imaging: 6/6/2024 1:35:55 PM

Sample Summary

Client: WSP USA Inc. Project/Site: RDU 11 Job ID: 890-2030-1 SDG: 31403360.031

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2030-1	BH12	Solid	02/28/22 10:30	03/01/22 08:50	2
890-2030-2	BH12	Solid	02/28/22 10:33	03/01/22 08:50	4
890-2030-3	BH13	Solid	02/28/22 11:20	03/01/22 08:50	2
890-2030-4	BH13	Solid	02/28/22 11:25	03/01/22 08:50	4
890-2030-5	BH14	Solid	02/28/22 11:30	03/01/22 08:50	0.5
890-2030-6	BH14	Solid	02/28/22 11:35	03/01/22 08:50	4
890-2030-7	BH15	Solid	02/28/22 11:40	03/01/22 08:50	0.5
890-2030-8	BH15	Solid	02/28/22 11:50	03/01/22 08:50	4
890-2030-9	BH16	Solid	02/28/22 13:20	03/01/22 08:50	2
890-2030-10	BH16	Solid	02/28/22 13:25	03/01/22 08:50	4
890-2030-11	BH17	Solid	02/28/22 14:15	03/01/22 08:50	2
890-2030-12	BH17	Solid	02/28/22 14:20	03/01/22 08:50	4

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Chain of Custody

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tonio,TX (210) 50	San Ant	1) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 50	Dallas, T.	1) 240-4200
7		Citation Sucreary		

Houston, TX (28 509-3334

ity, State ZIP: Noseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Joseph Hernandez Midland, TX 79705	eet 92	Midland,TX (432-704-544) NM (575-392-7550) Phoenix,AZ Bill: (if different)	-5440) EL Paso,TX (915)585-34- ix,AZ (480-355-0900) Atlanta,GA prent) Jim Raley WPX Energy 5315 Buena Vista Dr Carlsbad, NM 88220	43 Lubbock,TX (806)794-1296 \(770-449-8800) Tampa.FL (813-6	www.xenco.com Page
ity, State ZIP: Midland, TX 7: 281-702-2329	TX 79705 2329	Chy State Anna Byers	wsp.		Deliverables: EDD
roject Name: RDU 11		Turn Around		ANALYSIS REQUEST	T
er:).031	Routine			
ncident ID: nAPP2200728755	0728755	Rush:			
ampler's Name: Gilbert Moreno	огело	Due Date:			
SAMPLE RECEIPT	Temp Blank: (Ves) No	Wet Ice: (e) No			
emperature (°C):		Thermometer ID		890-2030 Chain of Custody	ustody
	-1	E00-MM	021)		
Seals: Ye	No MA	Correction Factor: 0.2	015) 0=80		
	No MA	Total Containers:	PA 80		
Sample Identification	Matrix Sampled	Time Sampled Depth (Feet)	Number TPH (Eff BTEX (I		
BH12	S 2.28.22	10:30 2	1 × ×		
BH12	S 2.28.22	10:33 4	1 × ×		
BH13	S 2.28.22	11:20 2	1 × × ×		
BH13	S 2.28.22	11:25 4	1 × ×		
BH14	S 2.28.22	11:30 0.5	1 × ×		
BH14	S 2.28.22	11:35 4	1 × ×		
BH15	S 2.28.22	11:40 0.5	1 × ×		
BH15	S 2.28.22	11:50 4	1 × ×		
BH16	S 2.28.22	13:20 2	1 × ×		
BH16	S 2.28.22	13:25 4	1 × ×		
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	<u>∞</u>	8RCRA 13PPM Texas 11 TCLP / SPLP 6010: 8RCF	xas 11 Al Sb As Ba Be 8RCRA Sb As Ba Be	B Cd Ca Cr Co Cu Cd Cr Co Cu Pb Mn	Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Mo Ni Se Ag TI U 1
otice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors, is service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$75 for each sample submitted to Xenco, but not analyzed. These terms will be s	d relinquishment of samples const r the cost of samples and shall not) will be applied to each project an	tutes a valid purchase order fr assume any responsibility for d a charge of \$5 for each samp	om client company to Xenco, any losses or expenses incui le submitted to Xenco, but no		. It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated.
Relinquished by: (Signature)	re) Received	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)
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Work Order No:

	Chain of Custody
(281) 240-4200	(281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334

Houston,TX

Address: City, State ZIP: Company Name: WSP 281-702-2329 Midland, TX 79705 3300 North A Street Joseph Hernandez Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) Anna.Byers@wsp.com, Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 (if different) WPX Energy Carlsbad, NM 88220 5315 Buena Vista Dr Jim Raley Deliverables: EDD Reporting:Level II DLevel III 中ST/UST Program: UST/PST □PRP □Brownfields ¬RC State of Project: www.xenco.com **Work Order Comments** ADaPT 🗆 PRRP □evel IV Other: Superfund 잌

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Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Tê .	Date/Time		ле)	Received by: (Signature)	Receive		ignature)	Relinquished by. (Signature)
	I terms and conditions nces beyond the control foursity negotiated.	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Xenco, its es incurred , but not ar	or expensed to Xenco	n client co ny losses : submitted	ırchase order fron ⊳sponsibility for ar 5 for each sample	nstitutes a valid pu not assume any re and a charge of \$	samples cor es and shall l each project	uishment of ost of sampl e applied to	ment and relince only for the conference of \$75.00 will b	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractor of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be
SiO2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg	Mo Ni K Se Ag SiO2 TI U	B Cd Ca Cr Co Cu Fe Pb Mg Mn Cd Cr Co Cu Pb Mn Mo Ni Se Ag	Be Be	As As	1	RCRA 13PPM Texas 11 A	8RCRA 13F TCLP / SPI	alyzed	6020: to be an	200.8 / 6020: and Metal(s) to be	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
				- Bi	1						
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		3)	`)						
					1						
			×	×		4	14:20	2.28.22	S		BH17
			×	×	_	2	14:15	2.28.22	S		BH17
Sample Comments			Chlorid	TPH (EI	Numbe	Depth (Feet)	Time Sampled	Date Sampled	Matrix	ation	Sample Identification
lab, if received by 4:30pm							Total Containers:	To	o N/A	Yes No	Sample Custody Seals:
TAT starts the day recevied by the	TAT		H	-		0.2	Correction Factor:	Cor	o N/A	Yes No	Cooler Custody Seals:
								1	No	Yes	Received Intact:
					iner	0	Thermometer ID				Temperature (°C):
				H	S	Yes No	Wet Ice:	Yes No	Temp Blank:		SAMPLE RECEIPT
API: PA.2021.04159.EXP.01	API:					Date:	Due Date			Gilbert Moreno	Sampler's Name: Gi
	AFE						Rush		755	nAPP2200728755	incident ID: nA
CC 1137831001	00					ine	Routine			31403360.031	Project Number: 31
Work Order Notes		ANALYSIS REQUEST				Turn Around	Tu		1	RDU 11	Project Name: RD

Work Order No:

3/7/2022

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2030-1 SDG Number: 31403360.031

Login Number: 2030 List Number: 1 Creator: Clifton, Cloe List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2030-1

SDG Number: 31403360.031

List Source: Eurofins Midland

List Creation: 03/02/22 11:22 AM

Login Number: 2030 List Number: 2

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	N/A	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2040-1

Laboratory SDG: 31403360.036.31403360.035

Client Project/Site: RDU 11

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 3/14/2022 1:37:54 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

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Client: WSP USA Inc. Project/Site: RDU 11

Laboratory Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

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Definitions/Glossary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

2

Qualifiers

GC VOA

Qualifier Qualifier Description

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

GC Semi VOA

Qualifier Description

*- LCS and/or LCSD is outside acceptance limits, low biased.

S1- Surrogate recovery exceeds control limits, low biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

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.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Job ID: 890-2040-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-2040-1

Receipt

The samples were received on 3/3/2022 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

GC VOA

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 laboratory control sample (LCS) associated with preparation batch 880-20924 and analytical batch 880-21381 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: BH04 (890-2040-7), BH08 (890-2040-16), BH09 (890-2040-17), BH10 (890-2040-19) and BH10 (890-2040-20). Evidence of matrix interferences is not obvious.

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 880-21026 and analytical batch 880-21137 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Lab Sample ID: 890-2040-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH01

Date Collected: 03/03/22 11:05 Date Received: 03/03/22 15:10

Sample Depth: 2

	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/09/22 23:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/09/22 23:03	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				03/07/22 12:57	03/09/22 23:03	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/09/22 23:03	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1
Analyte Total TPH	Result<50.0	Qualifier U	— RL 50.0	MDL	mg/Kg	D	Prepared	Analyzed 03/14/22 12:12	Dil Fac
- Total 1PH 	<50.0	U	50.0		mg/Kg				
								03/14/22 12:12	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							1
Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	• •	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared 03/04/22 15:08		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0	Qualifier U U *-	50.0	MDL	mg/Kg	<u>D</u>	03/04/22 15:08	Analyzed 03/11/22 22:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U U*-	50.0	MDL	mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08	Analyzed 03/11/22 22:14 03/11/22 22:14	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U*-	50.0 50.0 50.0	MDL	mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08	Analyzed 03/11/22 22:14 03/11/22 22:14 03/11/22 22:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U*-	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	Analyzed 03/11/22 22:14 03/11/22 22:14 03/11/22 22:14 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U *- U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	Analyzed 03/11/22 22:14 03/11/22 22:14 03/11/22 22:14 Analyzed 03/11/22 22:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U *- U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	Analyzed 03/11/22 22:14 03/11/22 22:14 03/11/22 22:14 Analyzed 03/11/22 22:14	Dil Face

Client Sample ID: BH01

Date Collected: 03/03/22 11:07 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/09/22 23:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/07/22 12:57	03/09/22 23:24	

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Lab Sample ID: 890-2040-2

Matrix: Solid

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Lab Sample ID: 890-2040-2

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-2040-1

Project/Site: RDU 11

SDG: 31403360 036 31403360 035

Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH01
Date Collected: 03/03/22 11:07

Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
motification to a gaine compa	Julius (33)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	97	70 - 130	03/07/22 12:57	03/09/22 23:24	

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit)	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg	 	_	03/10/22 16:12	1

ı					
ı	Method: 8015 NM - Γ	ligeal Range (Irganice	(DRO) (G	C

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/14/22 12:12	1

Mothod: 901ED	NM Diocol	Pango Ore	aniec /	DBO	CC
Method: 8015B	MINI - DIESEI	Range Org	janics (DRO	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118	70 - 130	03/04/22 15:08	03/11/22 23:18	1
o-Terphenyl	123	70 - 130	03/04/22 15:08	03/11/22 23:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result		. MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9220	99.2		mg/Kg	_	_	03/09/22 12:55	20

Client Sample ID: BH02

Date Collected: 03/03/22 11:10

Lab Sample ID: 890-2040-3

Matrix: Solid

Date Collected: 03/03/22 11:10 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

		()							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Toluene	<0.00198	U	0.00198	1	mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Ethylbenzene	<0.00198	U	0.00198	1	mg/Kg		03/07/22 12:57	03/09/22 23:44	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/09/22 23:44	1
o-Xylene	<0.00198	U	0.00198	1	mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Xylenes, Total	<0.00397	U	0.00397	1	mg/Kg		03/07/22 12:57	03/09/22 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/09/22 23:44	1
1,4-Difluorobenzene (Surr)	96		70 - 130				03/07/22 12:57	03/09/22 23:44	1

ı						
ı	Mothod	Total	DTEV	Total	DTEV	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg		_	03/10/22 16:12	1

н	Made al. COAF NIM Diaga	D O! (DDO)	1/001
ı	Method: 8015 NM - Diese	Rande Ordanics (DRO)	1 ((=(.)
ı	Michiga. Colo IVIII Dicoc	range Organico (Bra	, , , , , ,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg		_	03/14/22 12:12	1

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Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Date Collected: 03/03/22 11:10 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Lab Sample ID: 890-2040-3

Matrix: Solid

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/11/22 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				03/04/22 15:08	03/11/22 23:39	1
o-Terphenyl	79		70 - 130				03/04/22 15:08	03/11/22 23:39	1
— Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4300		49.8		mg/Kg			03/09/22 09:22	10

Lab Sample ID: 890-2040-4 **Client Sample ID: BH02**

Date Collected: 03/03/22 11:20 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 00:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 00:05	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/10/22 00:05	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1
Total BTEX					mg/Kg		<u> </u>	03/10/22 16:12	1
	Organics (DR			MDL			Prepared	03/10/22 16:12 Analyzed	
Total BTEX Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier	0.00398	MDL		<u>D</u>			Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte	Organics (DR Result <49.9	O) (GC) Qualifier	0.00398	MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR Result <49.9	O) (GC) Qualifier	0.00398	MDL	Unit mg/Kg	D		Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Organics (DR Result <49.9	Qualifier U RO) (GC) Qualifier	0.00398 RL 49.9		Unit mg/Kg		Prepared	Analyzed 03/14/22 12:12	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result <49.9 e Organics (DR/Result <49.9	Qualifier U RO) (GC) Qualifier U Qualifier U	0.00398 RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 00:01	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR/Result < 49.9 e Organics (D/Result)	Qualifier U RO) (GC) Qualifier U Qualifier U	0.00398 RL 49.9		Unit mg/Kg		Prepared Prepared	Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result <49.9 e Organics (DR/Result <49.9	Qualifier U RO) (GC) Qualifier U U V-	0.00398 RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg		Prepared Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 00:01	Dil Fac
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result <49.9 e Organics (D/Result <49.9) <p><49.9</p>	Qualifier U RO) (GC) Qualifier U U V*-	0.00398 RL 49.9 RL 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 00:01 03/12/22 00:01	Dil Fac Dil Fac 1 1 1
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR/Result	Qualifier U RO) (GC) Qualifier U U V*-	0.00398 RL 49.9 RL 49.9 49.9 49.9		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 00:01 03/12/22 00:01	Dil Fac Dil Fac 1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-2040-4

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Date Collected: 03/03/22 11:20 Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	8350		100		mg/Kg			03/09/22 09:31	20		

Client Sample ID: BH03 Lab Sample ID: 890-2040-5

Date Collected: 03/03/22 11:37 Date Received: 03/03/22 15:10

Sample Depth: 2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 00:25	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 00:25	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 00:25	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 00:25	
1,4-Difluorobenzene (Surr)	99		70 - 130				03/07/22 12:57	03/10/22 00:25	
Method: Total BTEX - Total BTEX	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	•	, ,	D.	MDI	11-4		Danagad	Amakanad	D!! E
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	•
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:22	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:22	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:22	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	72		70 - 130				03/04/22 15:08	03/12/22 00:22	1
o-Terphenyl	78		70 - 130				03/04/22 15:08	03/12/22 00:22	:
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Method: 300.0 - Anions, Ion Chro Analyte		Soluble Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2040-6

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH03

Date Collected: 03/03/22 11:40 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 00:46	
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 00:46	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 00:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 00:46	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 00:46	
Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/10/22 16:12	-
Analyte Total TPH	<50.0	Qualifier U			mg/Kg		Prepared	Analyzed 03/14/22 12:12	
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	
Method: 8015B NM - Diesel Rang									
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:44	
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:44	
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 00:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	77		70 - 130				03/04/22 15:08	03/12/22 00:44	
o-Terphenyl	83		70 - 130				03/04/22 15:08	03/12/22 00:44	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
					mg/Kg				

Client Sample ID: BH04

Date Collected: 03/03/22 09:25 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				03/07/22 12:57	03/10/22 01:06	

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Lab Sample ID: 890-2040-7

Matrix: Solid

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Client: WSP USA Inc.

Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH04 Lab Sample ID: 890-2040-7

Date Collected: 03/03/22 09:25 Matrix: Solid Date Received: 03/03/22 15:10

Sample Depth: 0.5

Method: 8021B -	Volatile Ord	anic Com	nounds ((GC) ((Continued)	
Method. 002 1D -	Voiatile Oit	jaine com	poullus (v	5 0, ((Continueu)	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	99	70 130	03/07/22 12:57	03/10/22 01:06	1

Method: Total	BTEX - Total	BTEX Calculation	าท

Analyte	Result C	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	LI.	0.00397	ma/Ka			03/10/22 16:12	

Method: 8015 NM - Diesel Rang	ge Organics (DRO) (GC)

Analyte	•	•	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH			<50.0	U	50.0		ma/Ka			03/14/22 12:12	1	

ALC: LOCATE NA	D: 1 D	•	(DDO) (
Method: 8015B NM	- Diesel Range	Organics	(DKO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130	03/04/22 15:0	03/12/22 01:05	1
o-Terphenyl	65	S1-	70 - 130	03/04/22 15:0	08 03/12/22 01:05	1

Method: 300.0 - Anions,	on Chromatography	· - Soluble
	_	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.3 F1	4.96	mg/Kg			03/09/22 16:05	1

Client Sample ID: BH04 Lab Sample ID: 890-2040-8 Matrix: Solid

Date Collected: 03/03/22 09:30 Date Received: 03/03/22 15:10

Sample Depth: 4

Mathadi 0004D	Valatile Overen	ic Compounds (GC)
Memoo: Auzib	- voianie Urdan	ic Compounds (GC)

motifica. Coz ib Volutile Orga	ino compoundo ((33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/07/22 12:57	03/10/22 01:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130				03/07/22 12:57	03/10/22 01:26	1

Mothod:	Total RT	EY Tota	I DTEY	Calculation

Analyte	Result Qu	ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ko			03/10/22 16:12	1

Analyte	•	•	Result	Qualifier	RL	MDL U	nit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	m	g/Kg		-	03/14/22 12:12	1

Lab Sample ID: 890-2040-8

03/09/22 16:23

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH04

Date Collected: 03/03/22 09:30 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130				03/04/22 15:08	03/12/22 01:26	1
o-Terphenyl	81		70 - 130				03/04/22 15:08	03/12/22 01:26	1
Method: 300.0 - Anions, Ion Chro	matagraphy	Solublo							
Wethou. 300.0 - Amons, fon Chic	mialography -	Soluble							

Client Sample ID: BH05 Lab Sample ID: 890-2040-9 Date Collected: 03/03/22 09:35 Matrix: Solid

29.1

5.00

mg/Kg

Date Received: 03/03/22 15:10

Sample Depth: 0.5

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/07/22 12:57	03/10/22 01:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	302	S1+	70 - 130				03/07/22 12:57	03/10/22 01:47	1
1,4-Difluorobenzene (Surr)	273	S1+	70 - 130				03/07/22 12:57	03/10/22 01:47	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	11	0.00400		mg/Kg		-	03/10/22 16:12	1
· IOIGI DI LA	~0.00400	U	0.00400		mg/rtg			03/10/22 10.12	
Method: 8015 NM - Diesel Range			0.00400		mg/Kg			03/10/22 10.12	,
	Organics (DR		0.00400 RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC) Qualifier		MDL		<u>D</u>	Prepared		·
Method: 8015 NM - Diesel Range Analyte	Organics (DRO Result <50.0	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR) Result <50.0 e Organics (DI)	O) (GC) Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR) Result <50.0 e Organics (DI)	Qualifier U RO) (GC) Qualifier	RL		Unit mg/Kg			Analyzed 03/14/22 12:12	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR) Result <	Qualifier U RO) (GC) Qualifier U U	RL		Unit mg/Kg		Prepared	Analyzed 03/14/22 12:12 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result < 50.0 e Organics (D/Result < 50.0	Qualifier U RO) (GC) Qualifier U U V U V U V-	RL 50.0		Unit mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 01:48	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR Result <50.0	Qualifier U RO) (GC) Qualifier U U V*-	RL 50.0 FL 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 01:48 03/12/22 01:48	Dil Fac Dil Fac 1 1 1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result < 50.0 e Organics (D/Result < 50.0	Qualifier U RO) (GC) Qualifier U U V*-	RL 50.0 50.0 50.0		Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	Analyzed 03/14/22 12:12 Analyzed 03/12/22 01:48 03/12/22 01:48	Dil Fac Dil Fac 1

Chefft Sample

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH05

Date Collected: 03/03/22 09:35 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Client: WSP USA Inc.

Project/Site: RDU 11

Lab Sample ID: 890-2040-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	5.80		4.98		mg/Kg			03/09/22 16:29	1		

Client Sample ID: BH05

Date Collected: 03/03/22 09:40

Lab Sample ID: 890-2040-10

Matrix: Solid

Date Collected: 03/03/22 09:40 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/07/22 12:57	03/10/22 02:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 02:07	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 02:07	1
- Method: Total BTEX - Total B	ΓEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Rar	nge Organics (DR	O) (GC)							
		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	KL	MIDE	Ullit		riepaieu	Allalyzeu	DII Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				03/04/22 15:08	03/12/22 02:10	1
o-Terphenyl	73		70 ₋ 130				03/04/22 15:08	03/12/22 02:10	1

Method: 300.0 - Anions, Ion Chroma	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	62.6	5.00	mg/Kg			03/09/22 16:52	1

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH06

Lab Sample ID: 890-2040-11 Date Collected: 03/03/22 09:45 Matrix: Solid Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/07/22 12:57	03/10/22 03:29	
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 03:29	
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/07/22 12:57	03/10/22 03:29	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 03:29	
1,4-Difluorobenzene (Surr)	100		70 - 130				03/07/22 12:57	03/10/22 03:29	•
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/10/22 16:12	
Mathada 0045 NM - Diagal Danna	Owner: on (DD	0) (00)							
Method: 8015 NM - Diesel Range Analyte		Qualifier	RL	MDI	Unit	D	Dropored	Analyzad	Dil Fa
Total TPH	<50.0		50.0	MIDL			Prepared	Analyzed 03/14/22 12:12	DII Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12.12	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:52	
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:52	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 02:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
			70 - 130				03/04/22 15:08	03/12/22 02:52	
1-Chlorooctane							03/04/22 15:08	03/12/22 02:52	
1-Chlorooctane o-Terphenyl	77		70 - 130				00/0 // 22 / 0.00	00/12/22 02.02	
1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro		Soluble	70 - 130				00.0 % == 70.00	00,12,22 02.02	
o-Terphenyl	omatography -	Soluble Qualifier	70 ₋ 130 RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH06 Lab Sample ID: 890-2040-12

Date Collected: 03/03/22 09:50 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 03:50	

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Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

roject/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH06

Lab Sample ID: 890-2040-12

Date Collected: 03/03/22 09:50

Matrix: Solid

Date Received: 03/03/22 15:10

Sample Depth: 4

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98	70 - 130	03/07/22 12:57	03/10/22 03:50	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	 D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg		_	03/10/22 16:12	1

Method: 8015 NM - Diesel Range Organic	s (DRO)	(GC)

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg]		03/14/22 12:12	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 03:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1-Chlorooctane	75	70 - 130
o-Terphenyl	78	70 - 130

	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	63.4	5.04	mg/Kg			03/09/22 17:16	1

Client Sample ID: BH07

Date Collected: 03/03/22 09:55

Lab Sample ID: 890-2040-13

Matrix: Solid

Date Collected: 03/03/22 09:55 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

mounda. our ib volutile orga	ino compoundo ((33)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Toluene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				03/07/22 12:57	03/10/22 04:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130				03/07/22 12:57	03/10/22 04:10	1

Mothod:	Total RT	EY Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			03/10/22 16:12	1

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/14/22 12:12	1

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03/04/22 15:08

03/04/22 15:08

03/12/22 03:14

03/12/22 03:14

Lab Sample ID: 890-2040-13

Lab Sample ID: 890-2040-14

Matrix: Solid

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH07

Date Collected: 03/03/22 09:55 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/04/22 15:08	03/12/22 03:35	1
o-Terphenyl	91		70 - 130				03/04/22 15:08	03/12/22 03:35	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH07

Date Collected: 03/03/22 10:00

Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/07/22 12:57	03/10/22 04:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130				03/07/22 12:57	03/10/22 04:31	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 04:31	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/14/22 12:12	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U *-	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:57	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 03:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				03/04/22 15:08	03/12/22 03:57	1
o-Terphenyl	101		70 ₋ 130				03/04/22 15:08	03/12/22 03:57	1

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH07 Lab Sample ID: 890-2040-14 Date Collected: 03/03/22 10:00

Matrix: Solid

Date Received: 03/03/22 15:10 Sample Depth: 4

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130		5.01		mg/Kg			03/09/22 17:27	1

Lab Sample ID: 890-2040-15 **Client Sample ID: BH08**

Date Collected: 03/03/22 10:05 Matrix: Solid

Date Received: 03/03/22 15:10

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/07/22 12:57	03/10/22 04:51	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 04:51	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/07/22 12:57	03/10/22 04:51	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130				03/07/22 12:57	03/10/22 04:51	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 04:51	
Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/10/22 16:12	
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
		Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/14/22 12:12	
Analyte Total TPH		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (D	Qualifier U				<u>D</u>	Prepared Prepared		Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <49.9 ge Organics (D	Qualifier U RO) (GC) Qualifier	49.9		mg/Kg			03/14/22 12:12	
Analyte	Result <49.9 ge Organics (D Result	Qualifier U RO) (GC) Qualifier U	49.9		mg/Kg		Prepared	03/14/22 12:12 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 ge Organics (D Result <49.9	Qualifier U RO) (GC) Qualifier U U *-	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:18	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U *-	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:18 03/12/22 04:18	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U *-	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:18 03/12/22 04:18	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U RO) (GC) Qualifier U U *-	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	03/14/22 12:12 Analyzed 03/12/22 04:18 03/12/22 04:18 03/12/22 04:18 Analyzed	Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U*- U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:18 03/12/22 04:18 Analyzed 03/12/22 04:18	Dil Fa

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03/09/22 17:33

4.99

mg/Kg

5.90

Chloride

Lab Sample ID: 890-2040-16

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH08

Date Collected: 03/03/22 10:10 Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	
Toluene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/07/22 12:57	03/10/22 05:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				03/07/22 12:57	03/10/22 05:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 05:11	1
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			03/10/22 16:12	1
Method: 8015 NM - Diesel Range			DI	MDI	Unit	n	Propared	Analyzod	Dil Fa
Analyte		O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/14/22 12:12	
Analyte		Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			03/14/22 12:12	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	03/14/22 12:12 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10		Qualifier U RO) (GC) Qualifier U U *-	50.0 RL 50.0		mg/Kg Unit mg/Kg		Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *-	50.0 RL 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 03/12/22 04:40	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U RO) (GC) Qualifier U U *-	50.0 RL 50.0 50.0 50.0		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40	Dil Face
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U RO) (GC) Qualifier U U *- U Qualifier	50.0 RL 50.0 50.0 50.0 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 03/12/22 04:40 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U RO) (GC) Qualifier U U*- U Qualifier S1- S1-	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 Analyzed 03/12/22 04:40	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U RO) (GC) Qualifier U U*- U Qualifier S1- S1-	50.0 RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 03/04/22 15:08 03/04/22 15:08 03/04/22 15:08 Prepared 03/04/22 15:08	03/14/22 12:12 Analyzed 03/12/22 04:40 03/12/22 04:40 Analyzed 03/12/22 04:40	Dil Fac

Client Sample ID: BH09

Date Collected: 03/03/22 10:15

Date Received: 03/03/22 15:10 Sample Depth: 0.5

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/07/22 12:57	03/10/22 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				03/07/22 12:57	03/10/22 05:32	1

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Lab Sample ID: 890-2040-17

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH09 Lab Sample ID: 890-2040-17

Date Collected: 03/03/22 10:15 Date Received: 03/03/22 15:10

Sample Depth: 0.5

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	102	70 - 130	03/07/22 12:57	03/10/22 05:32	

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			_	03/10/22 16:12	1

Method: 8015 NM - Diesel Range Organics (DRO)	(GC)
incured to the Picsci Range Organics (Dixo)	\cdot

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/14/22 12:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	U *-	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
C10-C28) OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/04/22 15:08	03/12/22 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	61	S1-	70 - 130				03/04/22 15:08	03/12/22 05:01	1

1-Chlorooctane	61 S1-	70 - 130
o-Terphenyl	58 S1-	70 - 130

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Chloride	10.4	5.00	mg/Kg	03/09/22 17:45	1	

Client Sample ID: BH09 Lab Sample ID: 890-2040-18

Date Collected: 03/03/22 10:25 Date Received: 03/03/22 15:10

Sample Depth: 4

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

ilic Collipoulius (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 05:52	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
112		70 - 130				03/07/22 12:57	03/10/22 05:52	1
98		70 - 130				03/07/22 12:57	03/10/22 05:52	1
	Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <0.00398 <0.00398 $ Result Qualifier Result Qualifier RL Result Qualifier RL MDL Result Qualifier RL MDL Unit <0.00199 U 0.00199 mg/Kg <0.00199$	Result Qualifier	Result Qualifier RL	Result Qualifier RL MDL	Result Qualifier RL MDL Unit <0.00199	Result Qualifier RL MDL Unit D <0.00199	Result Qualifier RL MDL Unit D Prepared <0.00199	<0.00199 U 0.00199 mg/Kg 03/07/22 12:57 03/10/22 05:52 <0.00199

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	Method: 8015 NM -	- Diesel Range	Organics (DRO)	(GC
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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			03/14/22 12:12	1

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Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Sample Depth: 4

Client Sample ID: BH09	Lab Sample ID: 890-2040-18
Date Collected: 03/03/22 10:25	Matrix: Solid
Date Received: 03/03/22 15:10	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U *-	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/04/22 15:08	03/12/22 05:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				03/04/22 15:08	03/12/22 05:23	1
o-Terphenyl	90		70 - 130				03/04/22 15:08	03/12/22 05:23	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Lab Sample ID: 890-2040-19 **Client Sample ID: BH10** Date Collected: 03/03/22 10:30 Matrix: Solid

Date Received: 03/03/22 15:10

Sample Depth: 0.5									
- Method: 8021B - Volatile Organi	ic Compounds ((GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	
Toluene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 06:13	
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/07/22 12:57	03/10/22 06:13	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		03/07/22 12:57	03/10/22 06:13	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	103		70 - 130				03/07/22 12:57	03/10/22 06:13	-
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 06:13	
- Method: Total BTEX - Total BTE	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			03/10/22 16:12	
- Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit				
T-4-LTDLL						D	Prepared	Analyzed	Dil Fa
Total TPH -	<50.0	U	50.0		mg/Kg	— <u> </u>	Prepared	Analyzed 03/14/22 12:12	Dil Fac
ਾਹਾਗ । PH - - Method: 8015B NM - Diesel Ran			50.0		mg/Kg	U	Prepared		Dil Fac
- -	ge Organics (D		50.0 RL	MDL		D	Prepared		
⊡ Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier		MDL				03/14/22 12:12	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	ge Organics (D Result	RO) (GC) Qualifier	RL	MDL	Unit		Prepared	03/14/22 12:12 Analyzed	Dil Fac

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Analyzed

03/12/22 05:45

03/12/22 05:45

Prepared

03/04/22 15:08

03/04/22 15:08

Limits

70 - 130

70 - 130

%Recovery Qualifier

61 S1-

62 S1-

Dil Fac

Surrogate

o-Terphenyl

1-Chlorooctane

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH10 Lab Sample ID: 890-2040-19 Date Collected: 03/03/22 10:30

Matrix: Solid

Sample Depth: 0.5

Date Received: 03/03/22 15:10

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.95		4.97		mg/Kg			03/09/22 18:09	1

Client Sample ID: BH10 Lab Sample ID: 890-2040-20

Date Collected: 03/03/22 10:35 Matrix: Solid

Date Received: 03/03/22 15:10

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Toluene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 06:33	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/07/22 12:57	03/10/22 06:33	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	104		70 - 130				03/07/22 12:57	03/10/22 06:33	
1,4-Difluorobenzene (Surr)	98		70 - 130				03/07/22 12:57	03/10/22 06:33	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			03/10/22 16:12	•
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	70.6		50.0		mg/Kg			03/14/22 12:12	
Method: 8015B NM - Diesel Rang									
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	
Diesel Range Organics (Over C10-C28)	70.6	*_	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/12/22 06:06	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	0.03	S1-	70 - 130				03/04/22 15:08	03/12/22 06:06	
o-Terphenyl	91		70 - 130				03/04/22 15:08	03/12/22 06:06	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
								03/09/22 18:26	

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limit
.ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-2040-1	BH01	103	98	
90-2040-1 MS	BH01	100	99	
90-2040-1 MSD	BH01	101	99	
90-2040-2	BH01	105	97	
90-2040-3	BH02	101	96	
90-2040-4	BH02	101	101	
90-2040-4	BH03	108	99	
90-2040-5	вноз	108	99 98	
90-2040-6 90-2040-7				
	BH04	107	99	
90-2040-8	BH04	110	101	
90-2040-9	BH05	302 S1+	273 S1+	
90-2040-10	BH05	108	98	
90-2040-11	BH06	109	100	
90-2040-12	BH06	108	98	
90-2040-13	BH07	105	97	
90-2040-14	BH07	109	98	
90-2040-15	BH08	108	98	
0-2040-16	BH08	106	98	
90-2040-17	BH09	110	102	
90-2040-18	BH09	112	98	
90-2040-19	BH10	103	98	
90-2040-20	BH10	104	98	
CS 880-20908/1-A	Lab Control Sample	99	100	
CSD 880-20908/2-A	Lab Control Sample Dup	99	100	
B 880-20906/5-A	Method Blank	99	93	
B 880-20908/5-A	Method Blank	95	93	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2040-1	BH01	98	105	
890-2040-1 MS	BH01	108	107	
890-2040-1 MSD	BH01	112	107	
890-2040-2	BH01	118	123	
890-2040-3	BH02	74	79	
890-2040-4	BH02	82	86	
890-2040-5	BH03	72	78	
890-2040-6	BH03	77	83	
890-2040-7	BH04	65 S1-	65 S1-	
890-2040-8	BH04	80	81	
890-2040-9	BH05	78	72	
890-2040-10	BH05	70	73	
890-2040-11	BH06	79	77	

Surrogate Summary

Job ID: 890-2040-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.036.31403360.035

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-2040-12	BH06	75	78	
890-2040-13	BH07	87	91	
890-2040-14	BH07	98	101	
890-2040-15	BH08	85	88	
890-2040-16	BH08	0.4 S1-	2 S1-	
890-2040-17	BH09	61 S1-	58 S1-	
890-2040-18	ВН09	87	90	
890-2040-19	BH10	61 S1-	62 S1-	
890-2040-20	BH10	0.03 S1-	91	
LCS 880-20924/2-A	Lab Control Sample	101	103	
LCSD 880-20924/3-A	Lab Control Sample Dup	113	115	
MB 880-20924/1-A	Method Blank	101	109	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-20906/5-A

Matrix: Solid Analysis Batch: 21187 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20906

	мв									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1	
Toluene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/09/22 08:00	03/09/22 10:58	1	
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/09/22 08:00	03/09/22 10:58	1	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/09/22 08:00	03/09/22 10:58	1	

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	 03/09/22 08:00	03/09/22 10:58	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/09/22 08:00	03/09/22 10:58	1

Lab Sample ID: MB 880-20908/5-A

Matrix: Solid

Analysis Batch: 21187

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

03/09/22 22:41

Prep Batch: 20908

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac mg/Kg 03/07/22 12:57 Benzene <0.00200 U 0.00200 03/09/22 22:41 Toluene <0.00200 U 0.00200 mg/Kg 03/07/22 12:57 03/09/22 22:41 Ethylbenzene <0.00200 U 0.00200 mg/Kg 03/07/22 12:57 03/09/22 22:41 <0.00400 U 0.00400 03/07/22 12:57 03/09/22 22:41 m-Xylene & p-Xylene mg/Kg <0.00200 U 0.00200 03/07/22 12:57 03/09/22 22:41 o-Xylene mg/Kg

0.00400

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	03/0	07/22 12:57	03/09/22 22:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	03/0	07/22 12:57	03/09/22 22:41	1

Lab Sample ID: LCS 880-20908/1-A

Matrix: Solid

Xylenes, Total

Analysis Batch: 21187

Client Sample ID: Lab Control Sample

03/07/22 12:57

Prep Type: Total/NA Prep Batch: 20908

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1006		mg/Kg		101	70 - 130	
Toluene	0.100	0.09711		mg/Kg		97	70 - 130	
Ethylbenzene	0.100	0.09592		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1986		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09573		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1.4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: LCSD 880-20908/2-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Lab	Control Sample Dup
	Drop Type, Total/NA

Prep Type: Total/NA

Prep Batch: 20908

	Бріке	LCSD LCSD				%Rec.		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1030	mg/Kg		103	70 - 130	2	35	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

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

Lab Sample ID: LCSD 880-20908/2-A

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 20908

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Toluene 0.100 0.09990 100 70 - 130 35 mg/Kg 3 Ethylbenzene 0.100 0.09791 mg/Kg 98 70 - 130 2 35 0.200 70 - 130 m-Xylene & p-Xylene 0.2036 mg/Kg 102 2 35 o-Xylene 0.100 0.09864 mg/Kg 99 70 - 130 3

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 890-2040-1 MS

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 20908

MS MS %Rec. Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00199 U 0.0990 0.1074 108 mg/Kg 70 - 130 Toluene <0.00199 U 0.0990 0.1038 105 70 - 130 mg/Kg Ethylbenzene <0.00199 U 0.0990 0.1022 103 70 - 130 mg/Kg 0.198 m-Xylene & p-Xylene <0.00398 U 0.2108 106 70 - 130 mg/Kg o-Xylene <0.00199 U 0.0990 0.1024 mg/Kg 103 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Lab Sample ID: 890-2040-1 MSD

Matrix: Solid

Analysis Batch: 21187

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 20908

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0994	0.1022		mg/Kg		103	70 - 130	5	35
Toluene	<0.00199	U	0.0994	0.09897		mg/Kg		100	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.0994	0.09699		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	<0.00398	U	0.199	0.2012		mg/Kg		101	70 - 130	5	35
o-Xylene	<0.00199	U	0.0994	0.09863		mg/Kg		99	70 - 130	4	35

MSD MSD

мв мв

<50.0 U

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-20924/1-A

Matrix: Solid

Analysis Batch: 21381

Gasoline Range Organics

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

Prepared

03/04/22 15:08

Prep Batch: 20924

03/11/22 21:09

(GRO)-C6-C10

Analyte

Eurofins Carlsbad

RL

50.0

MDL Unit

mg/Kg

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

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

Lab Sample ID: MB 880-20924/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 21381** Prep Batch: 20924 мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 21:09	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/22 15:08	03/11/22 21:09	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				03/04/22 15:08	03/11/22 21:09	1

o-Terphenyl		109	70 - 130				03/0	4/22 15:08	03/11/22 21	1:09 1
Lab Sample ID: LCS 880-209)24/2-A						Client	Sample	ID: Lab Cor	ntrol Sample
Matrix: Solid									Prep Ty	pe: Total/NA
Analysis Batch: 21381									Prep E	Batch: 20924
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	962.5		mg/Kg		96	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	686.5	*-	mg/Kg		69	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	101		70 - 130							
o-Terphenyl	103		70 - 130							

Lab Sample ID: LCSD 880-20924/3-A				Clier	ıt Sam	ple ID:	Lab Contro	l Sampl	e Dup
Matrix: Solid							Prep T	ype: To	tal/NA
Analysis Batch: 21381							Prep	Batch:	20924
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1041		mg/Kg		104	70 - 130	8	20
(GRO)-C6-C10									

Diesel Range Organics (Over C10-C28)			1000	768.2	mg/Kg	77	70 - 130
	LCSD	LCSD					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	113		70 - 130				

70 - 130

115

Lab Sample ID: 890-2040-1 MS									Client Sa	mple ID: BH01
Matrix: Solid									Prep ⁻	Гуре: Total/NA
Analysis Batch: 21381									Prep	Batch: 20924
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	1019		mg/Kg		99	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U *-	1000	801.0		mg/Kg		78	70 - 130	

(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U *-	1000	801.0	mg/Kg	78	70 - 130
C10-C28)							
,							
	MS	MS					
Surrogate	%Recovery	Qualifier	Limits				
1-Chlorooctane	108		70 - 130				
o-Terphenyl	107		70 ₋ 130				
	C10-C28) Surrogate 1-Chlorooctane	Diesel Range Organics (Over C10-C28)	Diesel Range Organics (Over C10-C28) MS MS Surrogate %Recovery Qualifier 1-Chlorooctane 108	Diesel Range Organics (Over	Diesel Range Organics (Over	Diesel Range Organics (Over	Diesel Range Organics (Over

Eurofins Carlsbad

11

20

o-Terphenyl

Job ID: 890-2040-1 Client: WSP USA Inc. Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: BH04

Client Sample ID: BH04

Prep Type: Soluble

Prep Type: Soluble

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

Lab Sample ID: 890-2040-1 MSD

Matrix: Solid

Analysis Batch: 21381

Client Sample ID: BH01

Prep Type: Total/NA Prep Batch: 20924

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	998	1099		mg/Kg		107	70 - 130	8	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U *-	998	821.3		mg/Kg		80	70 - 130	3	20
	Gasoline Range Organics (GRO)-C6-C10	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10	Analyte Result Qualifier Gasoline Range Organics <50.0 U	AnalyteResultQualifierAddedGasoline Range Organics<50.0	Analyte Result Qualifier Added Result Gasoline Range Organics <50.0	AnalyteResultQualifierAddedResultQualifierGasoline Range Organics<50.0	AnalyteResult Gasoline Range OrganicsQualifierAddedResult 998QualifierUnit(GRO)-C6-C109981099mg/Kg	Analyte Result Qualifier Added Result Qualifier Unit D Gasoline Range Organics <50.0 U 998 1099 mg/Kg (GRO)-C6-C10	Analyte Result Qualifier Added Result Qualifier Unit D %Rec Gasoline Range Organics <50.0 U 998 1099 mg/Kg 107 (GRO)-C6-C10	AnalyteResult Gasoline Range OrganicsQualifierAddedResult 998QualifierUnitD%RecLimits(GRO)-C6-C1009981099mg/Kg10770 - 130	AnalyteResult Gasoline Range OrganicsResult <50.0QualifierAddedResult 998Qualifier 1099Unit mg/KgD%Rec 107Limits 70 - 130RPD(GRO)-C6-C10

C10-C28)

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	112	70 - 130
o-Terphenyl	107	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21026/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 21137

мв мв

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/K	g		03/09/22 15:48	1

Lab Sample ID: LCS 880-21026/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 21137

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	231.2		mg/Kg		92	90 - 110	

Lab Sample ID: LCSD 880-21026/3-A

Matrix: Solid

Analysis Batch: 21137

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	243.8		mg/Kg		98	90 - 110	5	20	

Lab Sample ID: 890-2040-7 MS

Matrix: Solid

Analysis Batch: 21137

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	45.3	F1	248	261.4	F1	ma/Ka		87	90 110	

Lab Sample ID: 890-2040-7 MSD

Matrix: Solid

Analysis Batch: 21137											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	45.3	F1	248	262.7	F1	ma/Ka		88	90 - 110		20

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2040-17 MS Client Sample ID: BH09 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21137

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Chloride 10.4 250 281.4 mg/Kg 108 90 - 110

Client Sample ID: BH09 Lab Sample ID: 890-2040-17 MSD **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21137

Sample Sample Spike MSD MSD %Rec. RPD Qualifier Added Qualifier Limits RPD Limit Analyte Result Result Unit D %Rec Chloride 10.4 250 273.4 mg/Kg 105 90 - 110

Lab Sample ID: MB 880-21025/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

мв мв Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 03/09/22 01:05 mg/Kg

Lab Sample ID: LCS 880-21025/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 254.2 102 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-21025/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble Matrix: Solid**

Analysis Batch: 21139

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 252.3 mg/Kg 101 90 - 110 20

Lab Sample ID: 890-2040-1 MS Client Sample ID: BH01 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21139

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits 8700 Chloride 4990 13740 mg/Kg 101 90 - 110

Lab Sample ID: 890-2040-1 MSD Client Sample ID: BH01 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 21139

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Added Analyte Result Qualifier Limits RPD Limit Unit D %Rec Chloride 8700 4990 13490 mg/Kg 96 90 - 110 20

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

GC VOA

Prep Batch: 20906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20906/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 20908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2040-1	BH01	Total/NA	Solid	5035	
890-2040-2	BH01	Total/NA	Solid	5035	
890-2040-3	BH02	Total/NA	Solid	5035	
890-2040-4	BH02	Total/NA	Solid	5035	
890-2040-5	BH03	Total/NA	Solid	5035	
890-2040-6	BH03	Total/NA	Solid	5035	
890-2040-7	BH04	Total/NA	Solid	5035	
890-2040-8	BH04	Total/NA	Solid	5035	
890-2040-9	BH05	Total/NA	Solid	5035	
890-2040-10	BH05	Total/NA	Solid	5035	
890-2040-11	BH06	Total/NA	Solid	5035	
890-2040-12	BH06	Total/NA	Solid	5035	
890-2040-13	BH07	Total/NA	Solid	5035	
890-2040-14	BH07	Total/NA	Solid	5035	
890-2040-15	BH08	Total/NA	Solid	5035	
890-2040-16	BH08	Total/NA	Solid	5035	
890-2040-17	BH09	Total/NA	Solid	5035	
890-2040-18	BH09	Total/NA	Solid	5035	
890-2040-19	BH10	Total/NA	Solid	5035	
890-2040-20	BH10	Total/NA	Solid	5035	
MB 880-20908/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20908/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20908/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2040-1 MS	BH01	Total/NA	Solid	5035	
890-2040-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 21187

Released to Imaging: 6/6/2024 1:35:55 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	8021B	20908
890-2040-2	BH01	Total/NA	Solid	8021B	20908
890-2040-3	BH02	Total/NA	Solid	8021B	20908
890-2040-4	BH02	Total/NA	Solid	8021B	20908
890-2040-5	BH03	Total/NA	Solid	8021B	20908
890-2040-6	BH03	Total/NA	Solid	8021B	20908
890-2040-7	BH04	Total/NA	Solid	8021B	20908
890-2040-8	BH04	Total/NA	Solid	8021B	20908
890-2040-9	BH05	Total/NA	Solid	8021B	20908
890-2040-10	BH05	Total/NA	Solid	8021B	20908
890-2040-11	BH06	Total/NA	Solid	8021B	20908
890-2040-12	BH06	Total/NA	Solid	8021B	20908
890-2040-13	BH07	Total/NA	Solid	8021B	20908
890-2040-14	BH07	Total/NA	Solid	8021B	20908
890-2040-15	BH08	Total/NA	Solid	8021B	20908
890-2040-16	BH08	Total/NA	Solid	8021B	20908
890-2040-17	BH09	Total/NA	Solid	8021B	20908
890-2040-18	BH09	Total/NA	Solid	8021B	20908
890-2040-19	BH10	Total/NA	Solid	8021B	20908

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Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

GC VOA (Continued)

Analysis Batch: 21187 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-20	BH10	Total/NA	Solid	8021B	20908
MB 880-20906/5-A	Method Blank	Total/NA	Solid	8021B	20906
MB 880-20908/5-A	Method Blank	Total/NA	Solid	8021B	20908
LCS 880-20908/1-A	Lab Control Sample	Total/NA	Solid	8021B	20908
LCSD 880-20908/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20908
890-2040-1 MS	BH01	Total/NA	Solid	8021B	20908
890-2040-1 MSD	BH01	Total/NA	Solid	8021B	20908

Analysis Batch: 21336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	Total BTEX	
890-2040-2	BH01	Total/NA	Solid	Total BTEX	
890-2040-3	BH02	Total/NA	Solid	Total BTEX	
890-2040-4	BH02	Total/NA	Solid	Total BTEX	
890-2040-5	BH03	Total/NA	Solid	Total BTEX	
890-2040-6	BH03	Total/NA	Solid	Total BTEX	
890-2040-7	BH04	Total/NA	Solid	Total BTEX	
890-2040-8	BH04	Total/NA	Solid	Total BTEX	
890-2040-9	BH05	Total/NA	Solid	Total BTEX	
890-2040-10	BH05	Total/NA	Solid	Total BTEX	
890-2040-11	BH06	Total/NA	Solid	Total BTEX	
890-2040-12	BH06	Total/NA	Solid	Total BTEX	
890-2040-13	ВН07	Total/NA	Solid	Total BTEX	
890-2040-14	BH07	Total/NA	Solid	Total BTEX	
890-2040-15	BH08	Total/NA	Solid	Total BTEX	
890-2040-16	BH08	Total/NA	Solid	Total BTEX	
890-2040-17	ВН09	Total/NA	Solid	Total BTEX	
890-2040-18	ВН09	Total/NA	Solid	Total BTEX	
890-2040-19	BH10	Total/NA	Solid	Total BTEX	
890-2040-20	BH10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 20924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Total/NA	Solid	8015NM Prep	
890-2040-2	BH01	Total/NA	Solid	8015NM Prep	
890-2040-3	BH02	Total/NA	Solid	8015NM Prep	
890-2040-4	BH02	Total/NA	Solid	8015NM Prep	
890-2040-5	BH03	Total/NA	Solid	8015NM Prep	
890-2040-6	BH03	Total/NA	Solid	8015NM Prep	
890-2040-7	BH04	Total/NA	Solid	8015NM Prep	
890-2040-8	BH04	Total/NA	Solid	8015NM Prep	
890-2040-9	BH05	Total/NA	Solid	8015NM Prep	
890-2040-10	BH05	Total/NA	Solid	8015NM Prep	
890-2040-11	BH06	Total/NA	Solid	8015NM Prep	
890-2040-12	BH06	Total/NA	Solid	8015NM Prep	
390-2040-13	BH07	Total/NA	Solid	8015NM Prep	
390-2040-14	BH07	Total/NA	Solid	8015NM Prep	
390-2040-15	BH08	Total/NA	Solid	8015NM Prep	
890-2040-16	BH08	Total/NA	Solid	8015NM Prep	

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

GC Semi VOA (Continued)

Prep Batch: 20924 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-17	BH09	Total/NA	Solid	8015NM Prep	
890-2040-18	BH09	Total/NA	Solid	8015NM Prep	
890-2040-19	BH10	Total/NA	Solid	8015NM Prep	
890-2040-20	BH10	Total/NA	Solid	8015NM Prep	
MB 880-20924/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20924/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2040-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-2040-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21381

Lab Sample ID	Client Sample ID	Draw Time	Matrix	Method	Prep Batch
890-2040-1	BH01	Prep Type Total/NA	Solid	8015B NM	20924
890-2040-2	BH01	Total/NA	Solid	8015B NM	20924
890-2040-3	BH02	Total/NA	Solid	8015B NM	20924
890-2040-4	BH02	Total/NA	Solid	8015B NM	20924
890-2040-5	BH03	Total/NA	Solid	8015B NM	20924
890-2040-6	BH03	Total/NA	Solid	8015B NM	20924
890-2040-7	BH04	Total/NA	Solid	8015B NM	20924
890-2040-8	BH04	Total/NA	Solid	8015B NM	20924
890-2040-9	BH05	Total/NA	Solid	8015B NM	20924
890-2040-10	BH05	Total/NA	Solid	8015B NM	20924
890-2040-11	BH06	Total/NA	Solid	8015B NM	20924
890-2040-12	BH06	Total/NA	Solid	8015B NM	20924
890-2040-13	BH07	Total/NA	Solid	8015B NM	20924
890-2040-14	BH07	Total/NA	Solid	8015B NM	20924
890-2040-15	BH08	Total/NA	Solid	8015B NM	20924
890-2040-16	BH08	Total/NA	Solid	8015B NM	20924
890-2040-17	BH09	Total/NA	Solid	8015B NM	20924
890-2040-18	BH09	Total/NA	Solid	8015B NM	20924
890-2040-19	BH10	Total/NA	Solid	8015B NM	20924
890-2040-20	BH10	Total/NA	Solid	8015B NM	20924
MB 880-20924/1-A	Method Blank	Total/NA	Solid	8015B NM	20924
LCS 880-20924/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20924
LCSD 880-20924/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20924
890-2040-1 MS	BH01	Total/NA	Solid	8015B NM	20924
890-2040-1 MSD	BH01	Total/NA	Solid	8015B NM	20924

Analysis Batch: 21529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2040-1	BH01	Total/NA	Solid	8015 NM	
890-2040-2	BH01	Total/NA	Solid	8015 NM	
890-2040-3	BH02	Total/NA	Solid	8015 NM	
890-2040-4	BH02	Total/NA	Solid	8015 NM	
890-2040-5	BH03	Total/NA	Solid	8015 NM	
890-2040-6	BH03	Total/NA	Solid	8015 NM	
890-2040-7	BH04	Total/NA	Solid	8015 NM	
890-2040-8	BH04	Total/NA	Solid	8015 NM	
890-2040-9	BH05	Total/NA	Solid	8015 NM	
890-2040-10	BH05	Total/NA	Solid	8015 NM	
890-2040-11	BH06	Total/NA	Solid	8015 NM	

Client: WSP USA Inc. Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

GC Semi VOA (Continued)

Analysis Batch: 21529 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-12	BH06	Total/NA	Solid	8015 NM	
890-2040-13	BH07	Total/NA	Solid	8015 NM	
890-2040-14	BH07	Total/NA	Solid	8015 NM	
890-2040-15	BH08	Total/NA	Solid	8015 NM	
890-2040-16	BH08	Total/NA	Solid	8015 NM	
890-2040-17	BH09	Total/NA	Solid	8015 NM	
890-2040-18	BH09	Total/NA	Solid	8015 NM	
890-2040-19	BH10	Total/NA	Solid	8015 NM	
890-2040-20	BH10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 21025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Soluble	Solid	DI Leach	
890-2040-2	BH01	Soluble	Solid	DI Leach	
890-2040-3	BH02	Soluble	Solid	DI Leach	
890-2040-4	BH02	Soluble	Solid	DI Leach	
890-2040-5	BH03	Soluble	Solid	DI Leach	
890-2040-6	BH03	Soluble	Solid	DI Leach	
MB 880-21025/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21025/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21025/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2040-1 MS	BH01	Soluble	Solid	DI Leach	
890-2040-1 MSD	BH01	Soluble	Solid	DI Leach	

Leach Batch: 21026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-2040-7	BH04	Soluble	Solid	DI Leach	
890-2040-8	BH04	Soluble	Solid	DI Leach	
890-2040-9	BH05	Soluble	Solid	DI Leach	
390-2040-10	BH05	Soluble	Solid	DI Leach	
390-2040-11	BH06	Soluble	Solid	DI Leach	
890-2040-12	BH06	Soluble	Solid	DI Leach	
390-2040-13	BH07	Soluble	Solid	DI Leach	
390-2040-14	BH07	Soluble	Solid	DI Leach	
390-2040-15	BH08	Soluble	Solid	DI Leach	
390-2040-16	BH08	Soluble	Solid	DI Leach	
390-2040-17	BH09	Soluble	Solid	DI Leach	
90-2040-18	BH09	Soluble	Solid	DI Leach	
390-2040-19	BH10	Soluble	Solid	DI Leach	
390-2040-20	BH10	Soluble	Solid	DI Leach	
MB 880-21026/1-A	Method Blank	Soluble	Solid	DI Leach	
.CS 880-21026/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
_CSD 880-21026/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-2040-7 MS	BH04	Soluble	Solid	DI Leach	
390-2040-7 MSD	BH04	Soluble	Solid	DI Leach	
390-2040-17 MS	BH09	Soluble	Solid	DI Leach	
390-2040-17 MSD	ВН09	Soluble	Solid	DI Leach	

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 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

HPLC/IC

Analysis Batch: 21137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-7	BH04	Soluble	Solid	300.0	21026
890-2040-8	BH04	Soluble	Solid	300.0	21026
890-2040-9	BH05	Soluble	Solid	300.0	21026
890-2040-10	BH05	Soluble	Solid	300.0	21026
890-2040-11	BH06	Soluble	Solid	300.0	21026
890-2040-12	BH06	Soluble	Solid	300.0	21026
890-2040-13	BH07	Soluble	Solid	300.0	21026
890-2040-14	BH07	Soluble	Solid	300.0	21026
890-2040-15	BH08	Soluble	Solid	300.0	21026
890-2040-16	BH08	Soluble	Solid	300.0	21026
890-2040-17	BH09	Soluble	Solid	300.0	21026
890-2040-18	BH09	Soluble	Solid	300.0	21026
890-2040-19	BH10	Soluble	Solid	300.0	21026
890-2040-20	BH10	Soluble	Solid	300.0	21026
MB 880-21026/1-A	Method Blank	Soluble	Solid	300.0	21026
LCS 880-21026/2-A	Lab Control Sample	Soluble	Solid	300.0	21026
LCSD 880-21026/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21026
890-2040-7 MS	BH04	Soluble	Solid	300.0	21026
890-2040-7 MSD	BH04	Soluble	Solid	300.0	21026
890-2040-17 MS	BH09	Soluble	Solid	300.0	21026
890-2040-17 MSD	BH09	Soluble	Solid	300.0	21026

Analysis Batch: 21139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2040-1	BH01	Soluble	Solid	300.0	21025
890-2040-2	BH01	Soluble	Solid	300.0	21025
890-2040-3	BH02	Soluble	Solid	300.0	21025
890-2040-4	BH02	Soluble	Solid	300.0	21025
890-2040-5	BH03	Soluble	Solid	300.0	21025
890-2040-6	BH03	Soluble	Solid	300.0	21025
MB 880-21025/1-A	Method Blank	Soluble	Solid	300.0	21025
LCS 880-21025/2-A	Lab Control Sample	Soluble	Solid	300.0	21025
LCSD 880-21025/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21025
890-2040-1 MS	BH01	Soluble	Solid	300.0	21025
890-2040-1 MSD	BH01	Soluble	Solid	300.0	21025

Date Received: 03/03/22 15:10

Client: WSP USA Inc. SDG: 31403360.036.31403360.035 Project/Site: RDU 11

Lab Sample ID: 890-2040-1

Client Sample ID: BH01 Date Collected: 03/03/22 11:05

Matrix: Solid

Job ID: 890-2040-1

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/09/22 23:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/11/22 22:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 01:31	CH	XEN MID

Client Sample ID: BH01 Lab Sample ID: 890-2040-2 Date Collected: 03/03/22 11:07

Matrix: Solid

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/09/22 23:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/11/22 23:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	21025	03/07/22 10:32	СН	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 12:55	CH	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-2040-3

Date Collected: 03/03/22 11:10 Date Received: 03/03/22 15:10

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			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/09/22 23:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/11/22 23:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		10			21139	03/09/22 09:22	CH	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-2040-4 Date Collected: 03/03/22 11:20 **Matrix: Solid**

Date Received: 03/03/22 15:10

Dil Batch Batch Initial Final Batch Prepared or Analyzed Method Amount Amount Number Prep Type Туре Run Factor Analyst Lab Total/NA 5035 20908 03/07/22 12:57 Prep KL XEN MID 5.02 g 5 mL Total/NA Analysis 8021B 1 5 mL 5 mL 21187 03/10/22 00:05 XEN MID Total/NA Analysis Total BTEX 21336 03/10/22 16:12 XEN MID 1

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Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH02

Date Received: 03/03/22 15:10

Lab Sample ID: 890-2040-4 Date Collected: 03/03/22 11:20 **Matrix: Solid**

	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			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:01	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21025	03/07/22 10:32	СН	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 09:31	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-2040-5

Date Collected: 03/03/22 11:37 **Matrix: Solid**

Date Received: 03/03/22 15:10

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab Total/NA 5035 20908 Prep 5.00 g 5 mL 03/07/22 12:57 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 21187 03/10/22 00:25 KL XEN MID 1 Total/NA Total BTEX XEN MID Analysis 1 21336 03/10/22 16:12 AJ Total/NA Analysis 8015 NM 21529 03/14/22 12:12 XEN MID 1 AJ XEN MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 20924 03/04/22 15:08 DM Total/NA Analysis 8015B NM 21381 03/12/22 00:22 XEN MID 1 AJSoluble Leach DI Leach 5.03 g 50 mL 21025 03/07/22 10:32 CH XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-2040-6

21139

03/09/22 09:40

CH

10

Date Collected: 03/03/22 11:40 Date Received: 03/03/22 15:10

Analysis

300.0

Soluble

Matrix: Solid

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 00:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 00:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21025	03/07/22 10:32	CH	XEN MID
Soluble	Analysis	300.0		20			21139	03/09/22 10:06	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-2040-7

Date Collected: 03/03/22 09:25 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:05	AJ	XEN MID

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Matrix: Solid

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 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Client Sample ID: BH04 Lab Sample ID: 890-2040-7

Date Collected: 03/03/22 09:25

Date Received: 03/03/22 15:10

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:05	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-2040-8

Date Collected: 03/03/22 09:30 Matrix: Solid

Date Received: 03/03/22 15:10

	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	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:26	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:23	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-2040-9

Date Collected: 03/03/22 09:35

Date Received: 03/03/22 15:10

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			5.00 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 01:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 01:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:29	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-2040-10

Date Collected: 03/03/22 09:40 Date Received: 03/03/22 15:10

	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	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 02:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 02:10	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:52	CH	XEN MID

Eurofins Carlsbad

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Matrix: Solid

Released to Imaging: 6/6/2024 1:35:55 PM

Client: WSP USA Inc.

Job ID: 890-2040-1 Project/Site: RDU 11 SDG: 31403360.036.31403360.035

Client Sample ID: BH06 Lab Sample ID: 890-2040-11

Date Collected: 03/03/22 09:45 Matrix: Solid Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 03:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 02:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 16:58	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-2040-12 Matrix: Solid

Date Collected: 03/03/22 09:50 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 03:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 03:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:16	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-2040-13

Date Collected: 03/03/22 09:55 **Matrix: Solid** Date Received: 03/03/22 15:10

	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	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 03:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:21	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-2040-14

Date Collected: 03/03/22 10:00 **Matrix: Solid** Date Received: 03/03/22 15:10

	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	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Client Sample ID: BH07

Date Collected: 03/03/22 10:00 Date Received: 03/03/22 15:10 Lab Sample ID: 890-2040-14

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 03:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:27	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2040-15

Date Collected: 03/03/22 10:05 Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 04:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 04:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:33	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-2040-16

Date Collected: 03/03/22 10:10 **Matrix: Solid** Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 04:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:39	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2040-17

Date Collected: 03/03/22 10:15 **Matrix: Solid** Date Received: 03/03/22 15:10

_	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	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g	10 mL	20924 21381	03/04/22 15:08 03/12/22 05:01	DM AJ	XEN MID XEN MID

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1 SDG: 31403360.036.31403360.035

Client Sample ID: BH09 Lab Sample ID: 890-2040-17 Date Collected: 03/03/22 10:15 Matrix: Solid

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 17:45	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-2040-18

Date Collected: 03/03/22 10:25 Date Received: 03/03/22 15:10

	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	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 05:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 05:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:03	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2040-19

Date Collected: 03/03/22 10:30

Date Received: 03/03/22 15:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 06:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 05:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:09	CH	XEN MID

Client Sample ID: BH10 Lab Sample ID: 890-2040-20

Date Collected: 03/03/22 10:35 Date Received: 03/03/22 15:10

	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	20908	03/07/22 12:57	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21187	03/10/22 06:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			21336	03/10/22 16:12	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21529	03/14/22 12:12	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20924	03/04/22 15:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21381	03/12/22 06:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21026	03/07/22 10:38	CH	XEN MID
Soluble	Analysis	300.0		1			21137	03/09/22 18:26	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc. Project/Site: RDU 11

Job ID: 890-2040-1

SDG: 31403360.036.31403360.035

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Laboratory: Eurofins Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	' '	t the laboratory to not ocium	od by the governing dutienty. The list me	ay include analytes for
the agency does not of Analysis Method	' '	Matrix	Analyte	ay molade analytes for t
0 ,	fer certification.	•	, , ,	

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Method Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

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

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

 Client: WSP USA Inc.
 Job ID: 890-2040-1

 Project/Site: RDU 11
 SDG: 31403360.036.31403360.035

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2040-1	BH01	Solid	03/03/22 11:05	03/03/22 15:10	2
890-2040-2	BH01	Solid	03/03/22 11:07	03/03/22 15:10	4
890-2040-3	BH02	Solid	03/03/22 11:10	03/03/22 15:10	0.5
890-2040-4	BH02	Solid	03/03/22 11:20	03/03/22 15:10	4
890-2040-5	BH03	Solid	03/03/22 11:37	03/03/22 15:10	2
890-2040-6	BH03	Solid	03/03/22 11:40	03/03/22 15:10	4
890-2040-7	BH04	Solid	03/03/22 09:25	03/03/22 15:10	0.5
890-2040-8	BH04	Solid	03/03/22 09:30	03/03/22 15:10	4
890-2040-9	BH05	Solid	03/03/22 09:35	03/03/22 15:10	0.5
890-2040-10	BH05	Solid	03/03/22 09:40	03/03/22 15:10	4
890-2040-11	BH06	Solid	03/03/22 09:45	03/03/22 15:10	0.5
890-2040-12	BH06	Solid	03/03/22 09:50	03/03/22 15:10	4
890-2040-13	BH07	Solid	03/03/22 09:55	03/03/22 15:10	0.5
890-2040-14	BH07	Solid	03/03/22 10:00	03/03/22 15:10	4
890-2040-15	BH08	Solid	03/03/22 10:05	03/03/22 15:10	0.5
890-2040-16	BH08	Solid	03/03/22 10:10	03/03/22 15:10	4
890-2040-17	BH09	Solid	03/03/22 10:15	03/03/22 15:10	0.5
890-2040-18	BH09	Solid	03/03/22 10:25	03/03/22 15:10	4
890-2040-19	BH10	Solid	03/03/22 10:30	03/03/22 15:10	0.5
890-2040-20	BH10	Solid	03/03/22 10:35	03/03/22 15:10	4

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City, State ZIP:

Midland, TX 79705 3300 North A Street

Carlsbad, NM 88220

Company Name:

WSP

Joseph Hernandez

Chain of Custody

City, State 218	Address	Company Name	Ball No.: (if different) Jim Raley	Hobbs,NM (575-392-7550) Phoenix,AZ (4	Midland, TX (432-704-5440)	Houston,TX (281) 240-4200 C	0
Carlsbad, NM 88220	5315 Buena Vista Dr.	WPX Energy	Jim Raley	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	Chain of Custody
Reporting:Level II Level III Level IV	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	3-620-2000) <u>www.xenco.com</u> Page of			Work Order No:

		(Col Dir.	Relinquished by: (Signature	dotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control standard. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	вно5	BH05	ВН04	ВН04	вноз	вноз	ВН02	ВН02	вно1	BH01	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	emperature (°C): 1.7	SAMPLE RECEIPT	Sampler's Name: Gi	noident ID: nA	roject Number: 31	roject Name: RD	hone 28	oily, Grate Zir . Ivii
			O !	signature)	ument and relinqui le only for the cos of \$75.00 will be a	200.8 / 6020: and Metal(s) to be											cation	Yes No	Yes No		<u>.</u>		Gilbert Moreno	nAB1728553778,nAB1728551205	31403360.036, 31403360.035	RDU 11	281-702-2329	didita, 120 700
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				ure)	ourchase order fro responsibility for a \$5 for each sample	TCLP / SPLP 6010: 8RCRA		0.5	4	0.5	4	2	4	0.5	4	2	Depth (Feet)		₹ 0.2	7%	riD	CYes No	Due Date:	2.00	Routine	Turn Around	Anna.Byers@wsp.com	and the second second
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				(Signature)	signs sta re to circu red unles				-	-	-			-		-		-		10 Chair						REQUEST		_
	i				andard te umstance s previou	e Ag 7		-						-		F				n of Cus							Deliverables: EDD	:
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				eived b	conditions the contr iated.	7 00																						_
	i			Received by: (Signature)	<u>o</u> "	Ag old							1															<u> </u>
				nature)		1631		-		-													A	AF.	000		ADaP1	, , , ,
						/ 245.1	2										San	iab, ii	AT start				PA.					
Revised Date 051418 Rev 2018 1				Date/Time		Ni Se Ag TI U 1631/245.1/7470 /7471: Hg	5 I V 7										Sample Comments	lab, if received by 4.50pm	TAT starts the day recevied by the				API: PA.2021.04159.EXP.01		37901001	Work Order Notes	Other:) : :
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Relinquished by: (Signature)

Received by: (Signature)

3/3/22

Date/Time Ň 2

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Revised Date 051418 Rev. 2018 1

Address:

Company Name:

WSP

City, State ZIP:

roject Number: roject Name:

RDU 11

281-702-2329

nAB1728553778,nAB1728551205 31403360.036, 31403360.035

> Rush Routine

Turn Around

Anna.Byers@wsp.com

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Chain of Custody

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

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3300 North A Street Joseph Hernandez Midland, TX 79705 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (77 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 : (if different) Carlsbad, NM 88220 5315 Buena Vista Dr. WPX Energy Jim Raley

	Work Order Notes	TS	ANALYSIS REQUEST
	ADaPT Other:	Deliverables: EDD 🗀 AE	
	ST/UST PRRP Level IV	Reporting:Level II OLevel III CHST/UST CHRRP Cevel IV	
		State of Project:	
	wnfields RRC □Superfund □	Program: UST/PST □PRP □Brownfields ☐RC □Superfund	
	Work Order Comments	Work Ord	
(om Page 2 of 2	320-2000) www.xenco.com	'0-449-8800) Tampa,FL (813-620-2000)
3	,		[CCCCC, - \ (CCC), CT FCC

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Kenco, its as incurred but not an	npany to) r expense to Xenco,	client con losses oubmitted	rchase order from sponsibility for any 5 for each sample s	stitutes a valid pu ot assume any re nd a charge of \$1	samples cons es and shall no each project a	inquishment o	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontract of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such loss of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$6 for each sample submitted to Xenco, but not analyzed. These terms will	0 0 Z
Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631/245.1/7470 / 7471 : Hg	Ba Be C	Sb As B		TCLP / SPLP 6010: 8RCRA	TCLP / SPL	alyzed	s) to be an	Circle Method(s) and Metal(s) to be analyzed	
Ni K Se Ag SiO2	Be	b As E	A S	8RCRA 13PPM Texas 11 Al Sb As Ba	RCRA 13F	8	200.8 / 6020:	Total 200.7 / 6010 200.8	
	×	×	1	4	10:35	3.3.22	S	BH10	
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	×	×		4	10:25	3.3.22	S	ВН09	
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	×	×	-	4	10:10	3.3.22	S	ВН08	_
	×	×		0.5	10:05	3.3.22	S	BH08	_
	×	×	1	4	10:00	3.3.22	S	BH07	
	×	×		0.5	9:55	3.3.22	S	BH07	_
	×	×	1	4	9:50	3.3.22	s	ВН06	_
	×	×	7	0.5	9:45	3.3.22	တ	BH06	_
Sample Comments	Chlorid	BTEX (E	Numbe	Depth (Feet)	Time Sampled	Date Sampled	Matrix	Sample Identification	
lab, if received by 4:30pm	e (El	H			Total Containers:	Tota	No NIA	Sample Custody Seals: Yes	170
TAT starts the day recevied by the	PA 3	-		€ 0.2	Correction Factor:	Corr	NA NA	Cooler Custody Seals: Yes	10
	00.0	+		لد	San B	1	Yes) No	Received Intact: Y	150
)		ner		Thermometer ID		11.0	Temperature (°C):	-
		_	3	Yes No	Wet Ice:	Yes No	Temp Blank:	SAMPLE RECEIPT	_
API: PA.2021.04159.EXP.01				Date:	Due Date		one	Sampler's Name: Gilbert Moreno	10

Phone 575-988-3199 Fax: 575-988-3199

Carlsbad, NM 88220

1089 N Canal St.

Eurofins Carlsbad

13 14

Chain of Custody Record

💸 eurofins |

Environment Testing

Project Name: RDU 11 State, Zip: TX, 79701 BH04 (890-2040-8) BH04 (890-2040-7) BH03 (890-2040-8) BH03 (890-2040-5) BH02 (890-2040-4) BH02 (890-2040-3) BH01 (890-2040-2) BH01 (890-2040-1) Sample Identification - Client ID (Lab ID Midland vote Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC altertion immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC. BH05 (890-2040-9) 432-704-5440(Tel) Possible Hazard Identification 1211 W Florida Ave Eurofins Environment Testing Shipping/Receiving Client Information (Sub Contract Lab) elinquished by Empty Kit Relinquished by elinquished by Deliverable Requested I II III IV, Other (specify) Custody Seals Intact: linquished by: Yes ∆ No Custody Seal No South Centr Project #: 88000203 Phone # OM Due Date Requested 3/9/2022 Primary Deliverable Rank Date/Time Date/Time TAT Requested (days): Sample Date 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 3/3/22 Date Mountain 11 07 Mountain 09 35 Mountain 09 30 Mountain 09 25 Mountain 11 10 Mountain 11 40 Mountain 11 37 Mountain 11 20 Mountain Sample 11 05 Time (C=comp, G=grab Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid essica kramer@eurofinset com Mail Kramer Jessica Field Filtered Sample (Yes or No) NELAP - Texas lime. Accreditations Required (See note) Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client — Disposal By Lah — Archive For Month Cooler Temperature(s) °C and Other Remarks. Received by Received by × × × 300 ORGFM 28D/DI LEACH Chloride × \times × × × × × × × × × × × × × B015MOD_NM/8015NM_S_Prep Full TPH 8021B/5035FP_Calc BTEX × × × × × × × × × × × × × × × × × × 8015MOD Calo Analysis Requested × Total_BTEX_GCV × × × × × × × × Disposal By Lab State of Origin.
New Mexico Carrier Tracking No(s) fethod of Shipment: Date/Time Archive For Æ, Total Number of containers A-HCL
B NaOH
C-Zn Acetate
D Nitric Acid
F-NaHSO4
F-NaHSO4
G Amchlor
H-Ascorbic Acid
I Ice
J-DI Water
K EDTA
L EDA COC No: 890-652 1 Page 1 of 3 Preservation Codes 890-2040-1 Special Instructions/Note: M Hexane
N None
O AsNaO2
P NaZO4S
Q NaZSO3
R NaZSO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify) Company Months

Ver: 06/08/2021

Eurofins Carlsbad

Chain of Custody Record

1089 N Canal St.	,))															~;; (1)	'n	💸 eurofins	Su		ĺ			2	
Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199	_	Main	Chain of Custody Record	rody z	900	ă																			America	ica Gilli	2	lesco	oc
Client Information (Sub Contract Lab)	Sampler			Lab PM: Kramer	7	Jessica				ı			Carrie	Carrier Tracking No(s)	king r	lo(s)				89 00 00 00 00 00 00 00 00 00 00 00 00 00	COC No 890-652 2	?2							
Client Contact Shipping/Receiving	Phone:			E-Mail jessic	E-Mail jessica kramer@eurofinset com	mer@	eurc	ofinse	or cor	3			State	State of Origin New Mexico	8 3					Page: Page	Page: Page 2 of 3	of 3							
Company Eurofins Environment Testing South Centr					Accreditations Requ	Accreditations Required (Sec NELAP - Texas	s Requ	ired (See no	e note):										7-068 :# qof	Job #: 890-2040-1	<u> </u>							
Address. 1211 W Florida Ave	Due Date Requested 3/9/2022	Ω							≥ l	Analysis		Requested	ues	<u>e</u>						Pres	serv	Preservation Codes	ဂ္ဂ	Sep			ı		
City: Midland	TAT Requested (days):	ys):			**************************************									\Box					JA Supplied	O B A	NaOt An Ac	A HCL B - NaOH	-) Z S	M - Hexane N None	rane Sane			
State Zip: TX, 79701	J					A. Mille 6. au													ostotorestico	m D C	Nitric VaHS	Q Acid	•		P Na204S Q Na2SO3	204S 2SO3	I		
Phone: 432-704-5440(Tel)	PO#:					le	ТРН												1	го т	Amch	G - Amchlor	2		R - Na2S2O3 S H2SO4	282C	<u>ت</u> ک		j
Email	WO#				CONTRACTOR ON	2000000	p Full													J Ice	ice Di Water	Ē Š	ŝ		U - Acetone V MCAA	e stone	ģ	iyula	ā
Project Name: RDU 11	Project #: 88000203				***************************************		S_Pre	EX											ainer		EDTA EDA	<i>y</i>		ΝŞ	W - pH 4-5 Z other (sp	- pH 4-5 other (specify)	ecify	_	
Site	SSOW#						015NM	Calc BT		v									Girl On Sall	Other:	4								
		Sample	Sample Type (C=comp,	Matrix (W=water S=solid, O=waste/oli,	ld Filtered rform MS/N	_ORGFM_28	6MOD_NM/8	1B/6036FP_	5MOD_Calc	al_BTEX_GC									al Number										
Confidence Contract (Contract)	Valliple Date		Preservat	Preservation Code:	2500/ 100		8	8	8	Т				80.0	d a				XT	7	10	special instructions/Note				/\ \s\ingle	∥a	∏ē.	
BH05 (890-2040-10)	3/3/22	09 40 Mountain		Solid		×	×	×	×	×					200		i i		-				an, mounts		400	100 m	- Al 180000		
BH06 (890-2040-11)	3/3/22	09 45 Mountain		Solid	_	×	×	×	×	×							l		-										
BH06 (890-2040-12)	3/3/22	09 50 Mountain		Solid		×	×	×	×	×									-		I								
BH07 (890-2040-13)	3/3/22	09 55 Mountain		Solid		×	×	×	×	×									حر					ļ				1	
ВН07 (890-2040-14)	3/3/22	10 00 Mountain		Solid		×	×	×	×	×									 ,							ļ			
BH08 (890-2040-15)	3/3/22	10 05 Mountain		Solid		×	×	×	×	×																			
BH08 (890-2040-16)	3/3/22	10 10 Mountain		Solid		×	×	×	×	×																			
BH09 (890-2040-17)	3/3/22	10 15 Mountain		Solid		×	×	×	×	×																			
BH09 (890-2040-18)	3/3/22	10 25 Mountain		Solid		×	×	×	×	×																			
Note. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.	nt Testing South Centra cove for analysis/tests/ intral LLC attention im	al LLC places matrix being a mediately If	the ownership analyzed, the sa	of method, ana mples must be creditations are	yte & a shipped curren	ccredit d back it to da	tation of the return to the	compli Eurof	iance i ins Er	upon o hvironi ed Cha	out su nent] ain of	ocontr esting	act lal Sout dy atte	orato o Cen	ries tral L to sai	This s LC lai	ample orato	ship ry or ce to	ment other Euro	is for instra	rward uctior Enviro	ded ur ns will nme	nder (I be p	chain provic	ied. Sout	ustod Any c	ty if shang ntral	the les to	-
Possible Hazard Identification Unconfirmed					S	Sample Disposal (ple Disposal (pose	l (Af	A fee	_may	∐eal	Sses	assessed if sam	ifsa	, all	S a		tain	tained long	ong	may be assessed if samples are retained longer than 1 month)	han	1 3	<u> </u>	=			
Deliverable Requested I, II III IV Other (specify)	Primary Deliverable Rank		2		S	Special Instructions/QC Requirements	Instr	rctio	ns/o	Ĉ R	ğ	mer	is			ľ				Į.]:				ľ		ľ		
Empty Kit Relinquished by:		Date	***************************************		Time.		l		,		ı			Meth	Method of Shipment:	Shipn	en:	ı											
Relinquished by Cloth (M) S422	Date/Time			Company		Rec	Received by	Ž	L	1			l			()\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		2	7	_	ابړ	7	۱.		Company		3	<u> </u>	- 1
Relinquished by	Date/Time			Company		Rec	Received by	ρŅ								Date	Date/Time		ř	ļ	K	ŀ	ſ		Company	any		ľ	
Relinquished by	Date/Time:			Company		Rec	Received by	by:								Date	Date/Time								Company	any	ĺ	1	-
A Yes A No						8	Cooler Temperature(s) °C and Other Remarks	mpera	ture(s	Ca	l Ci	er ze	marks			l													

Ver 06/08/2021

Empty Kit Relinquished by

linquished by:

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b

Date/Time

⊃ate/Time late/lime

Company Company

Cooler Temperature(s) °C and Other Remarks.

Received by: Received by Received by lime

Method of Shipment

Date/Time Date/Time

Company

Ver 06/08/2021

Special Instructions/QC Requirements

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon

Months

Primary Deliverable Rank

Deliverable Requested | II III IV Other (specify)

Relinquished by

Custody Seal No

elinquished by

Possible Hazard Identification

nconfirmed

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Project Name: RDU 11

Sample Identification - Client ID (Lab ID)

Sample Date

Sample

Type

Matrix

8021B/5035FP_Calc BTEX

Total Number of containers

8015MOD Calc

Total_BTEX_GCV

Field Filtered Sample (Yes or No)

300 ORGFM 28D/DI LEACH Chloride

8015MOD_NM/8015NM_S_Prep Full TPH

Perform MS/MSD (Yes or No)

G=grab) (C=comp. Sample

Preservation Code:

Solid Solid

× ×

× ×

× ×

× ×

× ×

3/3/22 3/3/22

Mountain 10 35 Mountain

10 30

BH10 (890-2040-20) BH10 (890-2040-19) State, Zip: TX, 79701

Midland

1211 W Florida Ave

Due Date Requested 3/9/2022

TAT Requested (days):

Phone

432-704-5440(Tel)

₩0#

PO#:

88000203

Eurofins Environment Testing South Centr

Shipping/Receiving

Eurofins Carlsbad

1089 N Canal St.

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Chain of Custody Record

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Carlsbad, NM 88220	Citatil of Custody Necold	/ Necola		America
Phone 575-988-3199 Fax 575-988-3199				
	Sampler	Lab PM	Carrier Tracking No(s):	OC No:
Client Information (Sub Contract Lab)		Kramer, Jessica	Ω.	90-652 3
				(MICH.)

essica kramer@eurofinset.com

State of Origin
New Mexico

Page: Page 3 of 3

Preservation 390-2040-1 Accreditations Required (See note)

NELAP - Texas

Analysis Requested

A HCL
B NaOH
C Zn Acetate
D. Nitric Acid
E NaHSO4
F MeOH
H Ascorbic Acid

M Hexane
N None
O AsNaO2
P-Na2O4S
Q Na2SO3
R-Na2S2O3

I-Ice J DI Water K EDTA L EDA

..a2S233
S H2S04
T TSP Dodecahydrate
U - Acetone
V MCAA
W pH 4-5
Z of

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Special Instructions/Note:

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-2040-1

SDG Number: 31403360.036.31403360.035

Login Number: 2040 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2040-1

SDG Number: 31403360.036.31403360.035

List Source: Eurofins Midland

List Creation: 03/04/22 01:21 PM

Creator: Lowe, Katie

Login Number: 2040

List Number: 2

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	True	

Released to Imaging: 6/6/2024 1:35:55 PM

<6mm (1/4").

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**

CONDITIONS

Action 95617

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	95617
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. At this time, the largest variance the OCD can grant is 500 ft2 for confirmation samples. Sidewall and floor samples should represent no more than 500 ft2. The work will need to occur in 90 days after the work plan has been approved.	5/4/2022

<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 351041

QUESTIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1728553778
Incident Name	NAB1728553778 ROSS DRAW UNIT #011 @ 30-015-24307
Incident Type	Produced Water Release
Incident Status	Reclamation Report Received
Incident Well	[30-015-24307] ROSS DRAW UNIT #011

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROSS DRAW UNIT #011
Date Release Discovered	09/21/2017
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: Equipment Failure Other (Specify) Produced Water Released: 0 BBL Recovered: 0 BBL Lost: 0 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)	Not answered.

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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 2

Action 351041

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041

QUESTIONS (continued)

Action Type [C-141] Reclamation Report C-141 (C-141-v-Reclamation) QUESTIONS Nature and Volume of Release (continued) Is this a gas only submission (i.e. only significant Mcf values reported) More info needed to determine if this will be treated as a "gas only" report. Was this a major release as defined by Subsection A of 19.15.29.7 NMAC Unavailable Reasons why this would be considered a submission for a notification of a major Unavailable release 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. Initial Response The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury. The source of the release has been stopped True The impacted area has been secured to protect human health and the True environment Released materials have been contained via the use of berms or dikes, absorbent True pads, or other containment devices All free liquids and recoverable materials have been removed and managed True appropriately 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. 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.

Date: 03/14/2024

Name: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com

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QUESTIONS, Page 3

Action 351041

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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)	Between 100 and 500 (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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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 1000 (ft.) and ½ (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 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be p	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 co	ntamination 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 delineate	ed 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)	5220
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	58.3
GRO+DRO (EPA SW-846 Method 8015M)	58.3
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report include which includes the anticipated timelines for beginning and completing the remediation	s completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC n.
On what estimated date will the remediation commence 10/01/2023	
On what date will (or did) the final sampling or liner inspection occur	10/30/2023
On what date will (or was) the remediation complete(d)	10/30/2023
What is the estimated surface area (in square feet) that will be reclaime	d 0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediate	ed 0
What is the estimated volume (in cubic yards) that will be remediated	0
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.	
	djusted 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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1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II**

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

State of New Mexico

QUESTIONS, Page 4

Action 351041

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

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	Not answered.
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	Yes
In which state is the disposal taking place	TX
What is the name of the out-of-state facility	R360
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/14/2024

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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QUESTIONS, Page 5

Action 351041

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 No submission

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

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QUESTIONS, Page 6

Action 351041

QUESTIONS	(continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	323118
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	10/30/2023
What was the (estimated) number of samples that were to be gathered	70
What was the sampling surface area in square feet	38500

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	Yes			
Have the lateral and vertical extents of contamination been fully delineated	Yes			
Was this release entirely contained within a lined containment area	No			
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes			
What was the total surface area (in square feet) remediated	38500			
What was the total volume (cubic yards) remediated	4380			
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes			
What was the total surface area (in square feet) reclaimed	4380			
What was the total volume (in cubic yards) reclaimed	4380			
Summarize any additional remediation activities not included by answers (above)	Remediation area has been restored with clean backfill material and re-seeded with BLM Seed Mixture #2 following the appropriate BLM re-seeding guidelines for seed to sqft area ratio.			

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

I hereby agree and sign off to the above statement

Email: jim.raley@dvn.com
Date: 03/14/2024

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1625 N. French Dr., Hobbs, NM 88240
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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

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 7

Action 351041

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUESTI	ONS (continued)
Operator: WPX Energy Permian, LLC Devon Energy - Regulatory Oklahoma City, OK 73102	OGRID: 246289 Action Number: 351041
GRIGHTA GRY, GR 10102	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)
QUESTIONS	
Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	11284
What was the total volume of replacement material (in cubic yards) for this site	1671
	four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 ver must include a top layer, which is either the background thickness of topsoil or one foot of suitable materia
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	06/30/2024
Summarize any additional reclamation activities not included by answers (above)	Remediation area has been restored with clean backfill material and will be re-seeded with BLM Seed Mixture #4 following the appropriate BLM re-seeding guidelines for seed to sqft area ratio.
	eclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to a water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses which may endanger public health or the environment. The acceptance of a C-141 report by idequately investigate and remediate contamination that pose a threat to groundwater, surface does not relieve the operator of responsibility for compliance with any other federal, state, or ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed no notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement

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QUESTIONS, Page 8

Action 351041

QUESTIONS (continued)

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Revegetation Report		
Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.		
Requesting a restoration complete approval with this submission	No	
Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.		

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CONDITIONS

Action 351041

CONDITIONS

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	351041
	Action Type:
	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	The reclamation report has been approved pursuant to 19.15.29.13 E. NMAC. The acceptance of this 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; or if the location fails to revegetate properly. In addition, OCD approval does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.	6/6/2024
amaxwell	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	6/6/2024
amaxwell	Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.	6/6/2024