PERMIAN

RESOURCES

MERCHANT GAP 36 STATE COM 1H

Remediation/Reclamation Completion

nAPP2417050147

O-24-22S-34E

Land Owner: Merchant Livestock

32.3706319,-103.4210479

Diamondback
DISPOSAL SERVICES, INC.

2525 NW County Rd
Hobbs, NM 88240
(575) 392-9996

Introduction

This report represent the reclamation activities at the MERCHANT GAP 36 STATE COM 1H. On behalf of Permian Resources (Permian), Diamondback Disposal Services, Inc. (Diamondback) is tasked with the cleanup (remediation) and reclamation of release number nAPP2417050147. The site resides in Unit Letter O, Section 24, Township 22S, Range 34E at coordinates 32.3706319,-103.4210479. The remediation and reclamation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) and 19.15.29 and 19.2.100.67 of the New Mexico Administrative Code (NMAC) effective date August 14, 2018, additional requirement detailed by a Surface Use Agreement (SUA) between Permian and Merchant Livestock was also followed.

The site is located approximately 16 miles Southwest of Eunice, NM and resides in an area designated for oil and gas operation as well as livestock. Background information was gathered on the site. The results of searching the NMOCD online imaging concluded that no incidents of a reportable magnitude existed in the history of the site. Web soil survey results (see Appendix A) indicated native site soil to be fine sandy loam from 0-60”. The operation did not encroach outside of the permitted right away and no re-vegetation plan will be needed.

Upon review of the site characteristics and a search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) a survey was conducted to determine the average depth to groundwater within a one (1) mile radius of the remediated site and identify any registered water wells within a ½ mile radius of the release site. Wetlands were identified and do exist at .2 mile to the northeast of the site. Several wells were identified and a water column average show groundwater to be over 800ft BGS. Please note that this is misleading as the identified wells are commercial and tap into water basin well below a shallower basin that exist at roughly 30ft. During the investigation the site was identified as being in an area deemed to have low karst potential. The SUA in effect for this area requires the most stringent criteria for remediation. Therefore Table 1 NMAC 19.15.29.12 closure criteria for groundwater <50ft (See Table Below) has be utilized.

Table 1 NMAC 19.15.29.12 Closure Criteria for Soils Impacted by a Release		
<50 Feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

Remediation/Reclamation Activities

Between the dates of August 26th, 2024 and September th, 2024 Diamondback excavated approximately 484 cubic yards (cy) of impacted material. The material was then loaded and transported to the Northern Delaware Basin Facility for disposal. During this time the site was field tested for chloride levels and TPH values. NMOCD was notified of intent to begin confirmation sampling of excavation on August 29h, 2024. Subsequently on September 6th, 2024, the site was sampled to determine the RRAL's had been met. Five-point composite samples were collected every 200 square feet of side wall and 200 square feet of floor area, packaged, then delivered to a third-party lab with chain of custody for testing as per regulatory standards. Upon review of analytical, floor number B14 (See Appendix C) proved to be above closure criteria. On September 10th, 2024, additional excavation and sampling was conducted in the area that failed to meet RRAL's. Upon review of additional laboratory data all floor and wall samples proved to be below table 1 RRAL's for site closure. Referring to Table 1 Closure Criteria for groundwater less than 50ft BGS, all restoration and reclamation limits have been met.

On the date of September 18th, 2024 the site was backfilled with approx 420 cy of like material obtained from Merchant Livestock as per the governing SUA. The material was placed in a matter that has restored the ROW to full operational condition, and will prevent storm water runoff.

Conclusion

Upon final review of all analytical data provided by the third-party independent lab, results indicated that all recommended remediation action levels restoration/reclamation criteria were met for all

excavated areas. On behalf of Permian Resources, Diamondback Disposal Services respectfully requests that the NMOCD grant closure approval at MERCHANT GAP 36 STATE COM 1H for release number nAPP2417050147. Thank you for your consideration.

Appendix A
Site Characterization

National Flood Hazard Layer FIRMette

FEMA

103°25'35"W 32°22'29"N

103°24'58"W 32°21'59"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 — Cross Sections with 1% Annual Chance
- 17.5 — Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

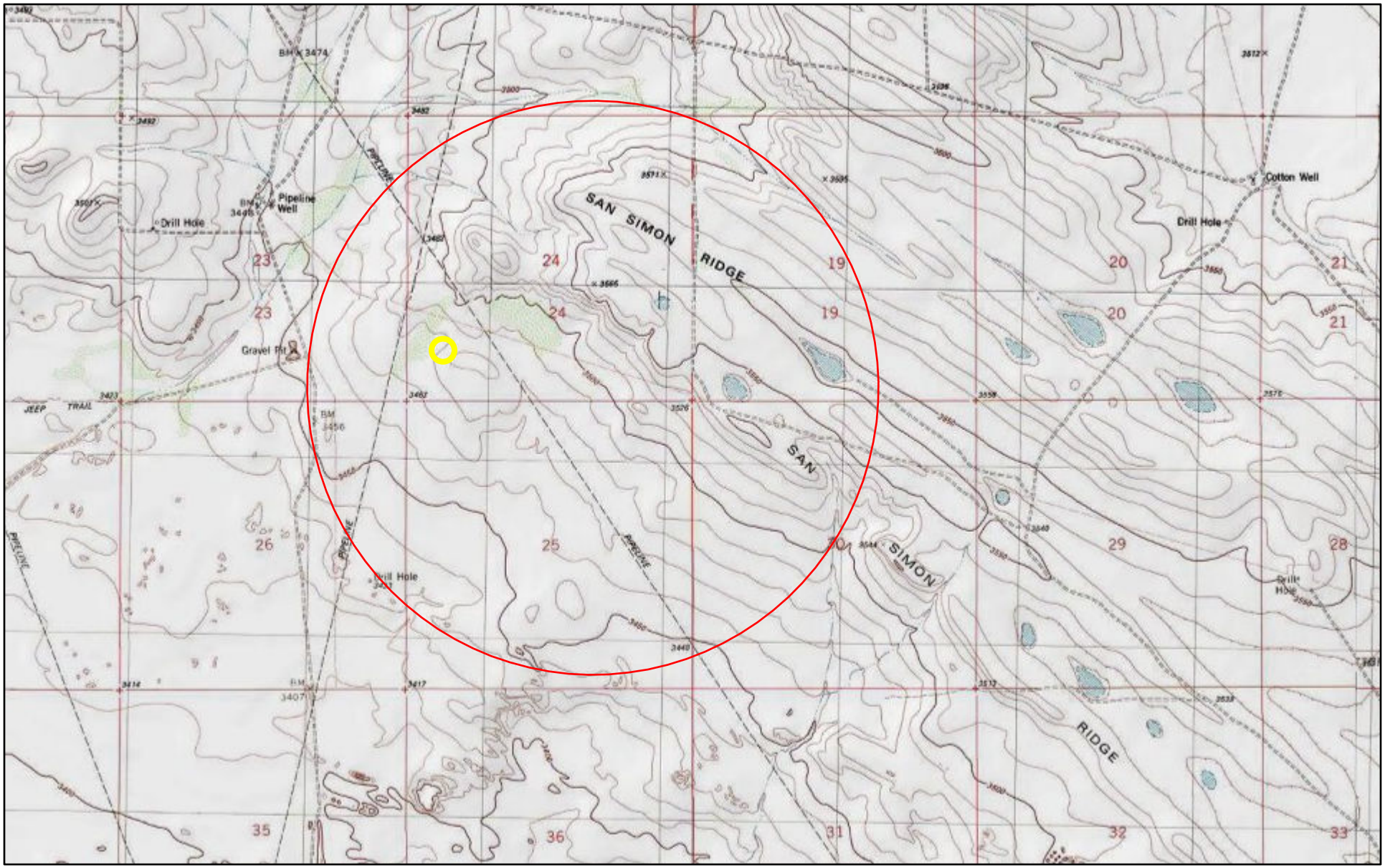
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 10/11/2024 at 9:20 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

1 mile Radius Topography



7/30/2024, 5:19:04 PM

1:36,112

0 0.25 0.5 1 mi

0 0.4 0.8 1.6 km

Online web user

This is an unofficial map from the OSE's online application.

Karst Potential

0 0.03 0.05 0.1 mi

N

New Mexico State Land Office

Disclaimer:
The New Mexico State Land Office assumes no responsibility or liability for, or in connection with the accuracy, reliability or use of the information provided herein with respect to State Land Office data or data from other sources.

Data pertaining to New Mexico State Trust Lands are provisional and subject to revision, and do not constitute an official record of title. Official records may be reviewed at the New Mexico State Land Office in Santa Fe, New Mexico.

Map Created: 7/30/2024

User drawn points

Karst_Potential_NM

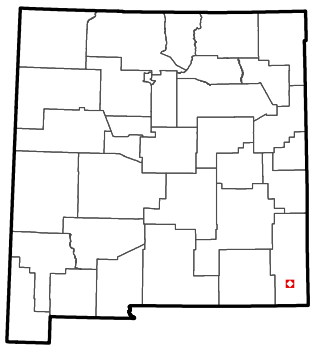
Potential

High

Medium

Low

Critical_Karst_Zone_NM



U.S. Fish and Wildlife Service
National Wetlands Inventory

Merchant GAP 36 Wetlands Map

August 2, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Project information

NAME

Merchant Gap 36

LOCATION

Lea County, New Mexico

DESCRIPTION

Some(Remediation at 32.3705539,-103.4211928)

Local office

New Mexico Ecological Services Field Office

(505) 346-2525
(505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Log in to IPaC.
2. Go to your My Projects list.
3. Click PROJECT HOME for this project.
4. Click REQUEST SPECIES LIST.

Listed species[1] and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries[2]).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

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1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of

Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Lesser Prairie-chicken Tympanuchus pallidicinctus No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon Falco femoralis septentrionalis No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1923	EXPN

Insects

NAME	STATUS
Monarch Butterfly Danaus plexippus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

There are no documented cases of eagles being present at this location. However, if you believe eagles may be using your site, please reach out to the local Fish and Wildlife Service office.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON

Chestnut-collared Longspur Calcarius ornatus — Breeds May 1 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Northern Harrier Circus hudsonius — Breeds Apr 1 to Sep 15
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
https://ecos.fws.gov/ecp/species/8350

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

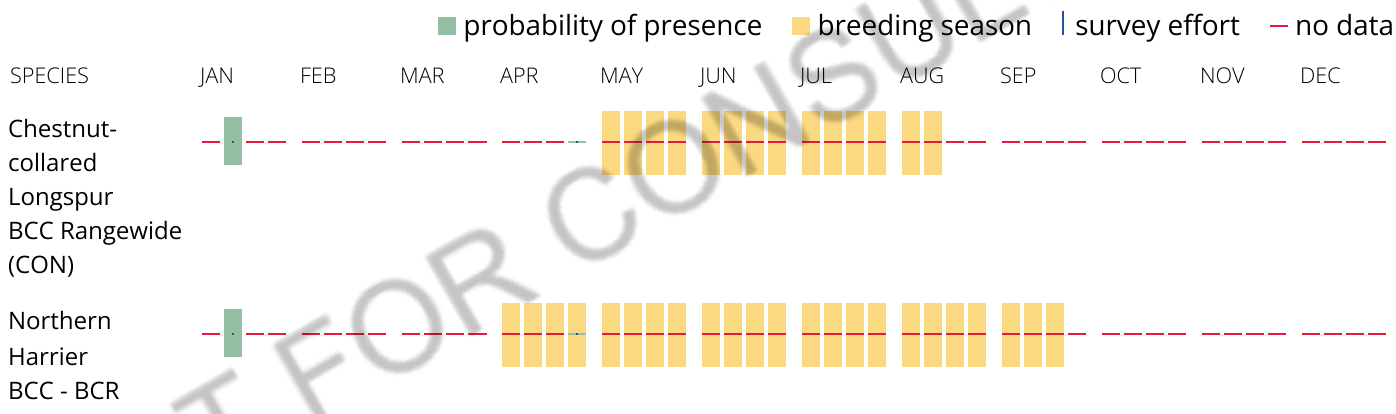
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

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

Custom Soil Resource Report for Lea County, New Mexico

Soil Resource Report for Merchant GAP 36

July 30, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

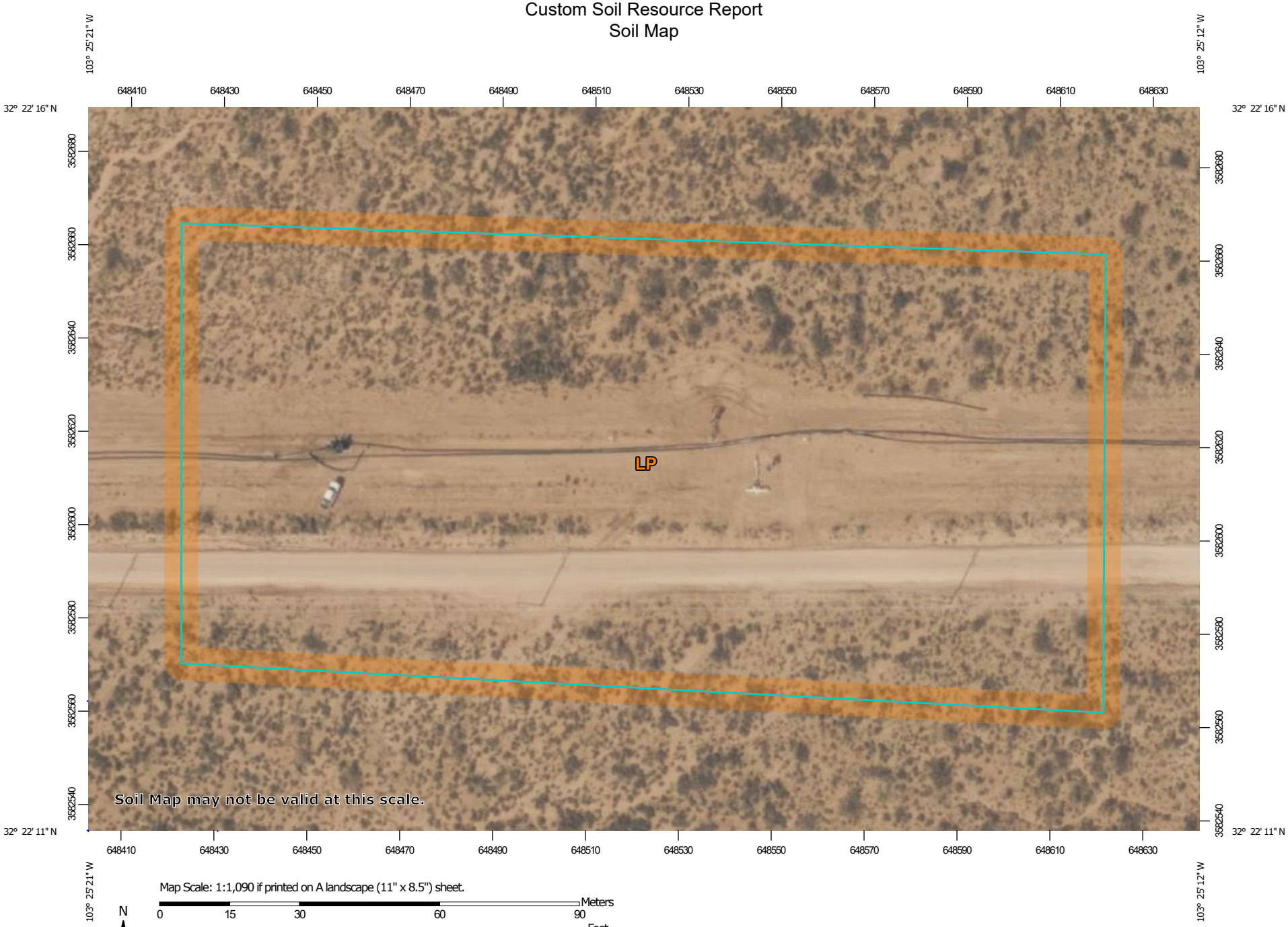
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
LP	Largo-Pajarito complex, rarely flooded	4.7	100.0%
Totals for Area of Interest		**4.7**	**100.0%**

Map Unit Descriptions

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

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

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

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

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

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

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

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

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

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

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

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

Lea County, New Mexico

LP—Largo-Pajarito complex, rarely flooded

Map Unit Setting

National map unit symbol: dmq7
Elevation: 3,000 to 3,900 feet
Mean annual precipitation: 10 to 12 inches
Mean annual air temperature: 60 to 62 degrees F
Frost-free period: 190 to 200 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Largo and similar soils: 45 percent
Pajarito and similar soils: 40 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Largo

Setting

Landform: Alluvial fans, plains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium derived from sedimentary rock

Typical profile

A - 0 to 13 inches: loam
AC - 13 to 30 inches: silty clay loam
C - 30 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Calcium carbonate, maximum content: 50 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: High (about 10.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: C
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Pajarito

Setting

Landform: Plains, alluvial fans
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous sandy alluvium and/or mixed sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 16 inches: loamy fine sand
Bw - 16 to 48 inches: fine sandy loam
Bk - 48 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 45 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Moderate (about 7.7 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 7c
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 8 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Palomas

Percent of map unit: 7 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

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Appendix B
Depth to Groundwater
Topographical Information

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are smallest to largest) (meters) (In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
CP 01719 POD1		CP	LE	SE	SE	SW	24	22S	34E	648215.0	3582680.2		330	1173	838	335
CP 01718 POD1		CP	LE	NE	SW	SW	24	22S	34E	647700.1	3582811.2		861	1172	855	317

Average Depth to Water: **846 feet**

Minimum Depth: **838 feet**

Maximum Depth: **855 feet**

Record Count: 2

UTM Filters (in meters):

Easting: 648536.296
Northing: 3582602.661
Radius: 1600

*** UTM location was derived from PLSS - see Help**

Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	CP 01719 POD1	SE	SE	SW	24	22S	34E	648215.0	3582680.2	🌎

*** UTM location was derived from PLSS - see Help**

Driller License:	421	**Driller Company:**	GLENN'S WATER WELL SERVICE		
Driller Name:	GLENN, CLARK A."CORKY", CE				
Drill Start Date:	2019-05-20	**Drill Finish Date:**	2019-05-24	**Plug Date:**	
Log File Date:	2019-06-10	**PCW Rcv Date:**		**Source:**	Artesian
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	100
Casing Size:	8.00	**Depth Well:**	1173	**Depth Water:**	838

Water Bearing Stratifications:

Top	Bottom	Description
826	857	Shale/Mudstone/Siltstone
857	953	Shale/Mudstone/Siltstone
953	1150	Sandstone/Gravel/Conglomerate
1150	1173	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
753	1173

Meter Information

Meter Number:	20158	**Meter Make:**	SEAMETRICS
Meter Serial Number:	10 200 093	**Meter Multiplier:**	1.0000
Number of Dials:	8	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Reading Frequency:**	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2020-04-30	2020	11980.000	A	ad		0.000	
2020-05-31	2020	11980.000	A	ad		0.000	
2020-06-30	2020	11980.000	A	ad		0.000	
2020-07-31	2020	11980.000	A	ad		0.000	
2020-08-31	2020	11980.000	A	ad		0.000	
2020-09-30	2020	11980.000	A	ad		0.000	
2020-10-31	2020	11980.000	A	ad		0.000	
2020-11-30	2020	11980.000	A	ad		0.000	
2020-12-31	2020	11980.000	A	ad		0.000	
2021-01-31	2021	11980.000	A	ad		0.000	
2021-02-20	2021	0.000	A	ad		0.000	
2021-02-28	2021	3493.000	A	ad		0.450	
2021-03-31	2021	3493.000	A	ad		0.000	
2021-04-30	2021	6905.000	A	ad		0.440	
2021-05-31	2021	47818.000	A	ad		5.273	
2021-06-30	2021	59007.000	A	ad		1.442	
2021-07-31	2021	78515.000	A	ad		2.514	
2021-08-31	2021	119887.000	A	ad		5.333	
2021-09-30	2021	163769.000	A	ad		5.656	
2021-10-31	2021	195376.000	A	ad		4.074	
2021-11-30	2021	226335.000	A	ad		3.990	
2021-12-26	2021	258461.000	A	ad		4.141	
2022-01-31	2022	299247.000	A	ad		5.257	
2022-02-28	2022	299273.000	A	ad		0.003	
2022-03-31	2022	299273.000	A	ad		0.000	
2022-04-30	2022	391169.000	A	ad		11.845	
2022-06-01	2022	395948.000	A	ad		0.616	
2022-07-01	2022	465704.000	A	ad		8.991	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2022-08-05	2022	503843.000	A	ad		4.916	
2022-09-01	2022	534781.000	A	ad		3.988	
2022-11-01	2022	534782.000	A	WEB		0.000	X
2022-12-01	2022	564473.000	A	WEB		3.827	X
2023-01-01	2022	570659.000	A	WEB		0.797	X
2023-02-01	2023	570666.000	A	WEB		0.001	X
2023-03-01	2023	629574.000	A	WEB		7.593	X
2023-04-01	2023	670661.000	A	WEB		5.296	X
2023-05-01	2023	670662.000	A	WEB		0.000	X
2023-06-01	2023	722663.000	A	WEB		6.703	X
2023-07-01	2023	780574.000	A	WEB		7.464	X
2023-08-01	2023	785760.000	A	WEB		0.668	X
2023-09-01	2023	785760.000	A	WEB		0.000	X
2023-10-01	2023	785760.000	A	WEB		0.000	X
2023-11-01	2023	813433.000	A	WEB		3.567	X
2023-12-01	2023	849272.000	A	WEB		4.619	X
2024-01-01	2023	891289.000	A	WEB		5.416	X
2024-02-01	2024	897627.000	A	WEB		0.817	X
2024-03-01	2024	909761.000	A	WEB		1.564	X
2024-04-01	2024	918893.000	A	WEB		1.177	X
2024-05-01	2024	958642.000	A	WEB		5.123	X
2024-06-07	2024	1002904.000	A	WEB		5.705	X
2024-07-01	2024	1002904.000	A	WEB		0.000	X

YTD Meter Amounts:

Year	Amount
2020	0.000
2021	33.313

Year	Amount
2022	40.240
2023	41.327
2024	14.386

7/30/24 4:57 PM MST **Point of Diversion Summary**

Appendix C
Site Delineation Mapping and Summary Report

Merchant Gap 36
Wall Sample Summary

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE	Status
W1	H245338-01	0-3'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304	IN-SITU
W2	H245338-02	0-2'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
W3	H245338-03	0-4'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176	IN-SITU
W4	H245338-04	0-5'	9-3--24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
W5	H245357-04	0-6'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208	IN-SITU
W6	H245338-05	0-6'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48	IN-SITU
W7	H245357-05	0-3'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64	IN-SITU
W8	H245357-06	0-5'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80	IN-SITU
W9	H245357-07	0-5'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
W10	H245357-08	0-5'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80	IN-SITU

Merchant Gap 36
Floor Sample Summary

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE	Status
B1	H245357-01	5'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336	IN-SITU
B2	H245357-02	5'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80	IN-SITU
B3	H245357-03	5'	9/4/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
B4	H245339-01	5'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48	IN-SITU
B5	H245339-02	6'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352	IN-SITU
B6	H245339-03	2'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384	IN-SITU
B7	H245339-04	3'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
B8	H245339-05	2'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
B9	H245339-06	4'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64	IN-SITU
B10	H245339-07	3'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
B11	H245339-08	2'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64	IN-SITU
B12	H245339-09	3'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288	IN-SITU
B13	H245339-10	3'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272	IN-SITU
B14	H245339-11	5'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	~~976~~	Excavated
B14	H245450-01	6’	9/10/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208	IN-SITU
B15	H245339-12	3'	9/3/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464	IN-SITU

Merchant Gap 36
Horizontal Sample Summary

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE	Status
HC	H244584-01		7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16	IN-SITU
H1	H244584-02	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0	IN-SITU
H2	H244585-03	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0	IN-SITU
H3	H244584-04	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32	IN-SITU
H4	H244584-05	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48	IN-SITU
H5	H244584-06	SURFACE	7-32-24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16	IN-SITU

Merchant Gap 36
Vertical Sample Summary

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE	Status
SP1	H244585-01	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	7300	Excavated
SP1	H244585-02	4'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1800	Excavated
SP1	H244585-03	5'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128	IN-SITU
SP2	H24458504	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5360	Excavated
SP2	H244585-05	4'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1010	Excavated
SP2	H244585-06	5'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224	IN-SITU
SP3	H244585-07	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5500	Excavated
SP3	H244585-08	2'	7/31/25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5120	Excavated
SP3	H244585-09	3'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112	IN-SITU

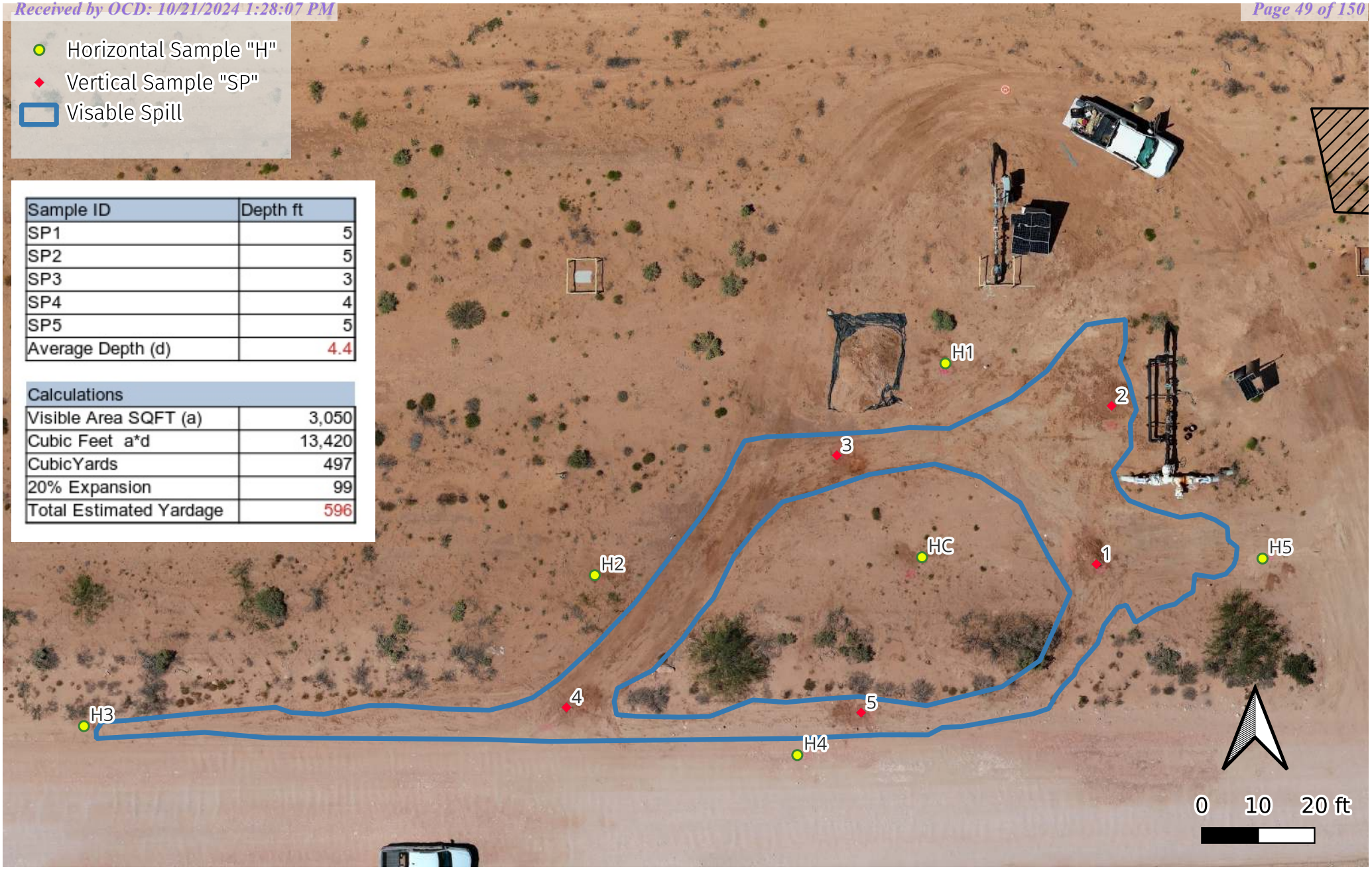
SP4	H244585-10	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	9760	Excavated
SP4	H244585-11	3'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1070	Excavated
SP4	H244585-12	4'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368	IN-SITU
SP5	H244585-13	SURFACE	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1550	Excavated
SP5	H244585-14	4'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2960	Excavated
SP5	H244585-15	5'	7/31/24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240	IN-SITU

MERCHANT GAP 36 STATE COM 1H
#NAPP2417050147
Wall Samples

Diamondback Disposal Services, Inc
P.O. Box 2491
Hobbs, NM 88241
575-392-9996

MERCHANT GAP 36 STATE COM 1H
#NAPP2417050147
Floor and Horizontal Samples

Diamondback Disposal
Services, Inc
P.O. Box 2491
Hobbs, NM 88241
575-392-9996



Sample ID	Depth ft
SP1	5
SP2	5
SP3	3
SP4	4
SP5	5
Average Depth (d)	4.4

Calculations	
Visible Area SQFT (a)	3,050
Cubic Feet a*d	13,420
CubicYards	497
20% Expansion	99
Total Estimated Yardage	596

Delineation Map
Permian Resources
Merchant Gap 36
32.37059968,-103.42105729

Diamondback Disposal Services, Inc
P.O. Box 2491
Hobbs, NM 88241
575-392-9996

Appendix D
Site Photography
And Field Notes

Merchant Gap 36
Final Excavation

Merchant Gap 36
Backfill Photos

Appendix E
Communications

FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 379038

From: Matthew Taylor <Matthew.Taylor@permianres.com>
To: Jasono@diamondbacknm.com <jasono@diamondbacknm.com>
Date: Thu, 29 Aug 2024 13:42:14 +0000 (*08/29/2024 07:42:14 AM*)

Matthew Taylor
(575)408-3638

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, August 29, 2024 7:39 AM
To: Matthew Taylor <Matthew.Taylor@permianres.com>
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 379038

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2417050147.

The sampling event is expected to take place:

When: 09/03/2024 @ 08:00
Where: O-24-22S-34E 0 FNL 0 FEL (32.370612,-103.421048)

Additional Information: Jason Owsley
575.602.5998

Additional Instructions: GPS: 32.370616,-103.421051

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive

Santa Fe, NM 87505

FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 379041

From: Matthew Taylor <Matthew.Taylor@permianres.com>
To: Jasono@diamondbacknm.com <jasono@diamondbacknm.com>
Date: Thu, 29 Aug 2024 13:42:28 +0000 (*08/29/2024 07:42:28 AM*)

Matthew Taylor
(575)408-3638

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, August 29, 2024 7:42 AM
To: Matthew Taylor <Matthew.Taylor@permianres.com>
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 379041

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2417050147.

The sampling event is expected to take place:

When: 09/04/2024 @ 08:00
Where: O-24-22S-34E 0 FNL 0 FEL (32.370612,-103.421048)

Additional Information: Jason Owsley
575.602.5998

Additional Instructions: GPS: 32.370616,-103.421051

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive

Santa Fe, NM 87505

FW: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 381424

From: Matthew Taylor <Matthew.Taylor@permianres.com>
To: Jasono@diamondbacknm.com <jasono@diamondbacknm.com>
Date: Sat, 7 Sep 2024 01:46:44 +0000 (*09/06/2024 07:46:44 PM*)

Here you go Jason, Tuesday was as soon as I could get it for.

Matthew Taylor
(575)408-3638

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Friday, September 6, 2024 5:16 PM
To: Matthew Taylor <Matthew.Taylor@permianres.com>
Subject: -EXTERNAL- The Oil Conservation Division (OCD) has accepted the application, Application ID: 381424

To whom it may concern (c/o Matthew Taylor for Permian Resources Operating, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2417050147.

The sampling event is expected to take place:

When: 09/10/2024 @ 08:00
Where: O-24-22S-34E 0 FNL 0 FEL (32.370612,-103.421048)

Additional Information: Jason Owsley
575.602.5998

Additional Instructions: GPS: 32.370616,-103.421051

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive

Santa Fe, NM 87505

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

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

QUESTIONS

Action 355483

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 355483
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Merchant Gap 36 State Com 1H
Date Release Discovered	06/18/2024
Surface Owner	Private

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: Normal Operations | Fitting | Produced Water | Released: 15 BBL | Recovered: 5 BBL | Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 355483
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

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

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 environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

ACKNOWLEDGMENTS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 355483
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that 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.
☑	I acknowledge the fact that, 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.

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165
	Action Number: 355483
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
mtaylorpr	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	6/18/2024

****** LIQUID SPILLS - VOLUME CALCULATIONS ******

Location of spill: Merchant Gap 36 State Com 1H

Date of Spill:

Site Soil Type:

Average Daily Production: _____ BBL Oil _____ BBL Water

Total Area Calculations

Total Surface Area	width		length		wet soil depth	oil (%)
Rectangle Area #1	100 ft	X	23 ft	X	3 in	0%
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%

Porosity 0.15 gal per gal

Saturated Soil Volume Calculations:

		H2O	OIL
Area #1	2300 sq. ft.	575 cu. ft.	cu. ft.
Area #2	0 sq. ft.	cu. ft.	cu. ft.
Area #3	0 sq. ft.	cu. ft.	cu. ft.
Area #4	0 sq. ft.	cu. ft.	cu. ft.
Area #5	0 sq. ft.	cu. ft.	cu. ft.
Area #6	0 sq. ft.	cu. ft.	cu. ft.
Area #7	0 sq. ft.	cu. ft.	cu. ft.
Area #8	0 sq. ft.	cu. ft.	cu. ft.
Total Solid/Liquid Volume:	**2,300 sq. ft.**	**575 cu. ft.**	**cu. ft.**

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	15.4 BBL	0.0 BBL
Liquid Recovered :	0.0 BBL	0.0 BBL
Spill Liquid	**15.4 BBL**	**0.0 BBL**
Total Spill Liquid:	**15.4**	

Recovered Volumes

Estimated oil recovered: 0.0 **BBL**

Estimated water recovered: **BBL**

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravely Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	

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QUESTIONS

Action 355587

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 355587
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2417050147**
Incident Name	**NAPP2417050147 MERCHANT GAP 36 STATE COM 1H @ 30-025-41352**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Received**
Incident Well	**[30-025-41352] MERCHANT GAP 36 STATE COM #001H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Merchant Gap 36 State Com 1H
Date Release Discovered	06/18/2024
Surface Owner	Private

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: Normal Operations | Fitting | Produced Water | Released: 15 BBL | Recovered: 5 BBL | Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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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QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 355587
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

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 environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 06/18/2024

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QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 355587
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	*Not answered.*
What method was used to determine the depth to ground water	*Not answered.*
Did this release impact groundwater or surface water	*Not answered.*
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	*Not answered.*
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	*Not answered.*
An occupied permanent residence, school, hospital, institution, or church	*Not answered.*
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	*Not answered.*
Any other fresh water well or spring	*Not answered.*
Incorporated municipal boundaries or a defined municipal fresh water well field	*Not answered.*
A wetland	*Not answered.*
A subsurface mine	*Not answered.*
An (non-karst) unstable area	*Not answered.*
Categorize the risk of this well / site being in a karst geology	*Not answered.*
A 100-year floodplain	*Not answered.*
Did the release impact areas not on an exploration, development, production, or storage site	*Not answered.*

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	No
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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CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165
	Action Number: 355587
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/18/2024

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QUESTIONS

Action 379038

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 379038
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2417050147**
Incident Name	**NAPP2417050147 MERCHANT GAP 36 STATE COM 1H @ 30-025-41352**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-41352] MERCHANT GAP 36 STATE COM #001H**

Location of Release Source	
Site Name	**Merchant Gap 36 State Com 1H**
Date Release Discovered	**06/18/2024**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/03/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jason Owsley 575.602.5998
Please provide any information necessary for navigation to sampling site	GPS: 32.370616,-103.421051

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CONDITIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 379038
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
mtaylorpr	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/29/2024

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QUESTIONS

Action 379041

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 379041
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2417050147**
Incident Name	**NAPP2417050147 MERCHANT GAP 36 STATE COM 1H @ 30-025-41352**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-41352] MERCHANT GAP 36 STATE COM #001H**

Location of Release Source	
Site Name	**Merchant Gap 36 State Com 1H**
Date Release Discovered	**06/18/2024**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	3,000
What is the estimated number of samples that will be gathered	30
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/04/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jason Owsley 575.602.5998
Please provide any information necessary for navigation to sampling site	GPS: 32.370616,-103.421051

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CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165
	Action Number: 379041
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
mtaylorpr	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/29/2024

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QUESTIONS

Action 381424

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 381424
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2417050147**
Incident Name	**NAPP2417050147 MERCHANT GAP 36 STATE COM 1H @ 30-025-41352**
Incident Type	**Produced Water Release**
Incident Status	**Initial C-141 Approved**
Incident Well	**[30-025-41352] MERCHANT GAP 36 STATE COM #001H**

Location of Release Source	
Site Name	**Merchant Gap 36 State Com 1H**
Date Release Discovered	**06/18/2024**
Surface Owner	**Private**

Sampling Event General Information *Please answer all the questions in this group.*	
What is the sampling surface area in square feet	200
What is the estimated number of samples that will be gathered	1
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	09/10/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jason Owsley 575.602.5998
Please provide any information necessary for navigation to sampling site	GPS: 32.370616,-103.421051

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CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165
	Action Number: 381424
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
mtaylorpr	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	9/6/2024

Appendix F
Lab Results
Originals

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 07, 2024

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MERCHANT GAP 36

Enclosed are the results of analyses for samples received by the laboratory on 08/01/24 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: HC (H244584-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.77	88.4	2.00	8.91	
Toluene*	<0.050	0.050	08/02/2024	ND	1.79	89.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.85	92.7	2.00	5.24	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.48	91.3	6.00	4.85	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.1 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *111 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *113 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: H1 @ SURFACE (H244584-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.77	88.4	2.00	8.91	
Toluene*	<0.050	0.050	08/02/2024	ND	1.79	89.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.85	92.7	2.00	5.24	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.48	91.3	6.00	4.85	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *122 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: H2 @ SURFACE (H244584-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.77	88.4	2.00	8.91	
Toluene*	<0.050	0.050	08/02/2024	ND	1.79	89.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.85	92.7	2.00	5.24	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.48	91.3	6.00	4.85	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *100 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: H3 @ SURFACE (H244584-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.77	88.4	2.00	8.91	
Toluene*	<0.050	0.050	08/02/2024	ND	1.79	89.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.85	92.7	2.00	5.24	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.48	91.3	6.00	4.85	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.7 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *115 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: H4 @ SURFACE (H244584-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.77	88.4	2.00	8.91	
Toluene*	<0.050	0.050	08/02/2024	ND	1.79	89.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.85	92.7	2.00	5.24	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.48	91.3	6.00	4.85	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *95.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.5 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: H5 @ SURFACE (H244584-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	1.77	88.4	2.00	8.91	
Toluene*	<0.050	0.050	08/02/2024	ND	1.79	89.7	2.00	6.79	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	1.85	92.7	2.00	5.24	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	5.48	91.3	6.00	4.85	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *113 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals		**BILL TO**	
Project Manager: Justin Roberts		P.O. #:	
Address: 2525 NW County RD		Company: Permian Resources	
City: Hobbs	State: NM ZIP: 88240	Attn: Montgomery Floyd	
Phone #: (575)-392-9996		Address:	
Project #:	PRS-102	City:	
Project Name:	Merchant Gap 36	State: Zip:	
Project Location:	32.37050650,-103.42139252	Phone #:	
Sampler Name:	Jason Owsley	Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL	EXT TPH	BTEX	FULL TCLIP	NORM
H244584																			
1	HC	G	1			x					x		7-31-24	10:00 AM	x	x	x		
2	H1 @ Surface	G	1			x					x		7-31-24	10:02 AM	x	x	x		
3	H2 @ Surface	G	1			x					x		7-31-24	10:04 AM	x	x	x		
4	H3 @ Suface	G	1			x					x		7-31-24	10:06 AM	x	x	x		
5	H4 @ Surface	G	1			x					x		7-31-24	10:08 AM	x	x	x		
6	H5 @ Surfce	G	1			x					x		7-31-24	10:10 AM	x	x	x		

Relinquished By:	Date: 8-1-24	Received By:	Verbal Result: ☐ Yes ☐ No — Add'l Phone #:
	Time: 0820		All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -11.0	Sample Condition: Cool ☑ Yes ☐ No; Intact ☐ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Bacteria (only) Sample Condition; Rush ☐ Cool Intact Observed Temp. °C; Thermometer ID #140; Correction Factor; ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C
	Corrected Temp. °C			

FORM-006 R 3.2 10/0

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 07, 2024

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MERCHANT GAP 36

Enclosed are the results of analyses for samples received by the laboratory on 08/01/24 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 1 @ SURFACE (H244585-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**7300**	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *118 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *119 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 1 @ 4' (H244585-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *113 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1800**	16.0	08/05/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *119 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *122 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 1 @ 5' (H244585-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *104 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 2 @ SURFACE (H244585-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5360**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 2 @ 4' (H244585-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1010**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	191	95.3	200	6.53	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	186	93.0	200	6.03	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *115 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *116 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 2 @ 5' (H244585-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *97.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.4 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 3 @ SURFACE (H244585-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5500**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.5 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 3 @ 2' (H244585-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5120**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *99.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.6 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 3 @ 3' (H244585-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *98.5 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 4 @ SURFACE (H244585-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**9760**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.8 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 4 @ 3' (H244585-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1070**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 4 @ 4' (H244585-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *99.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *96.0 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 5 @ SURFACE (H244585-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1550**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *92.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *88.3 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 5 @ 4' (H244585-14)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2960**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *97.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *95.2 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	08/01/2024	Sampling Date:	07/31/2024
Reported:	08/07/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: SP 5 @ 5' (H244585-15)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/02/2024	ND	2.04	102	2.00	5.53	
Toluene*	<0.050	0.050	08/02/2024	ND	2.44	122	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/02/2024	ND	2.65	133	2.00	5.43	
Total Xylenes*	<0.150	0.150	08/02/2024	ND	8.13	136	6.00	6.57	
Total BTEX	<0.300	0.300	08/02/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	08/06/2024	ND	448	112	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2024	ND	195	97.4	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/02/2024	ND	197	98.5	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	08/02/2024	ND					

Surrogate: 1-Chlorooctane *102 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals	**BILL TO**
Project Manager: Justin Roberts	P.O. #:
Address: 2525 NW County RD	Company: Permian Resources
City: Hobbs State: NM ZIP: 88240	Attn: Montgomery Floyd
Phone #: (575)-392-9996	Address:
Project #: PRS-102	City:
Project Name: Merchant Gap 36	State: Zip:
Project Location: 32.37050650,-103.42139252	Phone #:
Sampler Name: Jason Owsley	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL	EXT TPH	BTEX	FULL TCLIP	NORM
H244585																			
1	SP1 @ Surface	G	1			x					x		7-31-24	1:00 PM	x	x	x		
2	SP1 @ 4'	G	1			x					x		7-31-24	1:02 PM	x	x	x		
3	SP1 @ 5'	G	1			x					x		7-31-24	1:04 PM	x	x	x		
4	SP2 @ Surface	G	1			x					x		7-31-24	1:06 PM	x	x	x		
5	SP2 @ 4'	G	1			x					x		7-31-24	1:08 PM	x	x	x		
6	SP2 @ 5'	G	1			x					x		7-31-24	1:10 PM	x	x	x		
7	Sp3 @ Surface	G	1			x					x		7-31-24	1:12 PM	x	x	x		
8	Sp3@ 2'	G	1			x					x		7-31-24	1:14 PM	x	x	x		
9	Sp3 @ 3'	G	1			x					x		7-31-24	1:16 PM	x	x	x		

ANALYSIS REQUEST

Relinquished By:	Date: 8-1-24	Received By:	Verbal Result: ☐ Yes ☐ No — Add'l Phone #:
	Time: 0820		All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C / Corrected Temp. °C: -11.0	Sample Condition: Cool Yes / Intact Yes	CHECKED BY: (Initials)
			Turnaround Time: Standard ☑ — Bacteria (only) Sample Condition
			Rush ☐ Cool Intact Observed Temp. °C
			Thermometer ID #140 — Correction Factor — Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals	**BILL TO**
Project Manager: Justin Roberts	P.O. #:
Address: 2525 NW County RD	Company: Permian Resources
City: Hobbs State: NM ZIP: 88240	Attn: Montgomery Floyd
Phone #: (575)-392-9996	Address:
Project #: PRS-102	City:
Project Name: Merchant Gap 36	State: Zip:
Project Location: 32.37050650,-103.42139252	Phone #:
Sampler Name: Jason Owsley	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: CL	EXT TPH	BTEX	FULL TCLIP	NORM
H244585																			
10	SP4@ Surface	G	1			x					x		7-31-24	1:30 PM	x	x	x		
11	Sp4@ 3'	G	1			x					x		7-31-24	1:32 PM	x	x	x		
12	SP4@ 4'	G	1			x					x		7-31-24	1:34 PM	x	x	x		
13	SP5@ Surface	G	1			x					x		7-31-24	1:36 PM	x	x	x		
14	Sp5@ 4'	G	1			x					x		7-31-24	1:38 PM	x	x	x		
15	SP5@ 5'	G	1			x					x		7-31-24	1:40 PM	x	x	x		

Relinquished By:	Date: 8-1-24 Time: 0820	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
			REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C −11.0°

Sample Condition: Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No

CHECKED BY: (Initials) T.O.

Turnaround Time: Standard ☑ Bacteria (only) Sample Condition
Rush ☐ Cool Intact Observed Temp. °C
Thermometer ID #140
Correction Factor
☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

3R 3.2 07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 06, 2024

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MERCHANT GAP 36

Enclosed are the results of analyses for samples received by the laboratory on 09/03/24 16:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 1 @ 0-3' (H245338-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *83.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 2 @ 0-2' (H245338-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *84.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.4 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 3 @ 0-4' (H245338-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *79.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 4 @ 0-5' (H245338-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *78.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *86.3 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 6 @ 0-6' (H245338-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *78.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals	**BILL TO**
Project Manager: Justin Roberts	P.O. #:
Address: 2525 NW County RD	Company: Permian Resources
City: Hobbs State: NM ZIP: 88240	Attn: Montgomery Floyd
Phone #: (575)-392-9996	Address:
Project #: PRS-102	City:
Project Name: Merchant Gap 36	State: Zip:
Project Location: 32.37050650,-103.42139252	Phone #:
Sampler Name: Jason Owsley	Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL ✓	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: CL	EXT TPH	BTEX	FULL TCLIP	NORM
H245338																			
1	W1 @ 0-3'	C	1			x					x		9-3-24	8:24 AM	x	x	x		
2	W2 @ 0-2'	C	1			x					x		9-3-24	8:26 AM	x	x	x		
3	W3 @ 0-4'	C	1			x					x		9-3-24	8:28 AM	x	x	x		
4	W4 @ 0-5'	C	1			x					x		9-3-24	8:30 AM	x	x	x		
5	W6 @ 0-6'	C	1			x					x		9-3-24	8:32 AM	x	x	x		

linquished By:	Date: 9-3-24	Received By:	Verbal Result: ☐ Yes ☐ No — Add'l Phone #:
	Time: 1131		All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
linquished By:	Date:	Received By:	REMARKS:
	Time:		

ivered By: (Circle One) mpler - UPS - Bus - Other:	Observed Temp. °C 0.5 Corrected Temp. °C -1.1	Sample Condition Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Bacteria (only) Sample Condition Rush ☐ Cool Intact Observed Temp. °C Thermometer ID #140 Correction Factor -0.6°c ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 06, 2024

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MERCHANT GAP 36

Enclosed are the results of analyses for samples received by the laboratory on 09/03/24 16:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 4 @ 5' (H245339-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *69.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *73.2 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 5 @ 6' (H245339-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *76.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *85.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 6 @ 2' (H245339-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**384**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *85.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *90.5 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 7 @ 3' (H245339-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.8 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *77.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *81.4 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 8 @ 2' (H245339-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	205	103	200	1.30	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	196	97.8	200	2.31	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *83.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *87.0 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 9 @ 4' (H245339-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *81.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *92.9 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 10 @ 3' (H245339-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *88.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.0 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 11 @ 2' (H245339-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *99.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *118 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 12 @ 3' (H245339-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**288**	16.0	09/04/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *89.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.7 %* *49.1-148*

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Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 13 @ 3' (H245339-10)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	09/04/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *95.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *106 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 14 @ 5' (H245339-11)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**976**	16.0	09/04/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *99.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/03/2024	Sampling Date:	09/03/2024
Reported:	09/06/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 15 @ 3' (H245339-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2024	ND	2.06	103	2.00	0.318	
Toluene*	<0.050	0.050	09/04/2024	ND	2.00	99.8	2.00	0.860	
Ethylbenzene*	<0.050	0.050	09/04/2024	ND	2.01	100	2.00	1.36	
Total Xylenes*	<0.150	0.150	09/04/2024	ND	6.01	100	6.00	1.65	
Total BTEX	<0.300	0.300	09/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	09/04/2024	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/04/2024	ND	222	111	200	5.47	
DRO >C10-C28*	<10.0	10.0	09/04/2024	ND	222	111	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	09/04/2024	ND					

Surrogate: 1-Chlorooctane *97.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals	**BILL TO**
Project Manager: Justin Roberts	P.O. #:
Address: 2525 NW County RD	Company: Permian Resources
City: Hobbs State: NM ZIP: 88240	Attn: Montgomery Floyd
Phone #: (575)-392-9996	Address:
Project #: PRS-102	City:
Project Name: Merchant Gap 36	State: Zip:
Project Location: 32.37050650,-103.42139252	Phone #:
Sampler Name: Jeremy Morales	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: CL	EXT TPH	BTEX	FULL TCLIP	NORM
H245339																			
1	B4 @ 5'	C	1			x					x		9-3-24	8:00 AM	x	x	x		
2	B5 @ 6'	C	1			x					x		9-3-24	8:02 AM	x	x	x		
3	B6 @ 2'	C	1			x					x		9-3-24	8:04 AM	x	x	x		
4	B7 @ 3	C	1			x					x		9-3-24	8:06 AM	x	x	x		
5	B8 @ 2'	C	1			x					x		9-3-24	8:08 AM	x	x	x		
6	B9 @ 4'	C	1			x					x		9-3-24	8:10 AM	x	x	x		
7	B10 @ 3'	C	1			x					x		9-3-24	8:12 AM	x	x	x		
8	B11 @ 2	C	1			x					x		9-3-24	8:14 AM	x	x	x		
9	B12 @ 3'	C	1			x					x		9-3-24	8:16 AM	x	x	x		
10	B13 @ 3'	C	1			x					x		9-3-24	8:18 AM	x	x	x		

Relinquished By:	Date: 9-3-24	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 1031		All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 0.5 Corrected Temp. °C -1.1	Sample Condition Cool Intact ☑ Yes ☐ Yes ☐ No ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Bacteria (only) Sample Condition Rush ☐ Cool Intact Observed Temp. °C Thermometer ID #140 Correction Factor -0.6°c ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/2

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals		**BILL TO**	
Project Manager: Justin Roberts		P.O. #:	
Address: 2525 NW County RD		Company: Permian Resources	
City: Hobbs	State: NM ZIP: 88240	Attn: Montgomery Floyd	
Phone #: (575)-392-9996		Address:	
Project #:	PRS-102	City:	
Project Name:	Merchant Gap 36	State: Zip:	
Project Location:	32.37050650,-103.42139252	Phone #:	
Sampler Name:	Jeremy Morales	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL ✓	OTHER :	SAMPLING: DATE	TIME	CL	EXT TPH	BTEX	FULL TCLIP	NORM	ANALYSIS REQUEST
H245339-11	B14 @ 5'	C	1			x					x		9-3-24	8:20 AM	x	x	x			
12	B15 @ 3'	C	1			x					x		9-3-24	8:22 AM	x	x	x			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 9-3-24	Received By:	Verbal Result: ☐ Yes ☐ No — Add'l Phone #:
	Time:		All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
Relinquished By:	Date:	Received By:	REMARKS:
	Time:		

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 0.5 Corrected Temp. °C -1.1	Sample Condition: Cool Yes ☑ Intact Yes ☑ / Cool No ☐ Intact No ☐	CHECKED BY: (Initials) TO	Turnaround Time: Standard ☑ Rush ☐ — Bacteria (only) Sample Condition: Cool ☐ Intact ☐ Observed Temp. °C ☐ Yes ☐ Yes ☐ No ☐ No — Corrected Temp. °C

Thermometer ID #140
Correction Factor -0.6°c

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 09, 2024

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MERCHANT GAP 36

Enclosed are the results of analyses for samples received by the laboratory on 09/04/24 16:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 1 @ 5' (H245357-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**336**	16.0	09/05/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2024	ND	202	101	200	2.72	
DRO >C10-C28*	<10.0	10.0	09/05/2024	ND	199	99.6	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/05/2024	ND					

Surrogate: 1-Chlorooctane *105 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 2 @ 5' (H245357-02)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	09/05/2024	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2024	ND	202	101	200	2.72	
DRO >C10-C28*	<10.0	10.0	09/05/2024	ND	199	99.6	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/05/2024	ND					

Surrogate: 1-Chlorooctane *95.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *101 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 3 @ 5' (H245357-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/05/2024	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2024	ND	202	101	200	2.72	
DRO >C10-C28*	<10.0	10.0	09/05/2024	ND	199	99.6	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/05/2024	ND					

Surrogate: 1-Chlorooctane *99.2 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 5 @ 0-6' (H245357-04)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	09/05/2024	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2024	ND	202	101	200	2.72	
DRO >C10-C28*	<10.0	10.0	09/05/2024	ND	199	99.6	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/05/2024	ND					

Surrogate: 1-Chlorooctane *97.4 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 7 @ 0-3' (H245357-05)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	09/05/2024	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2024	ND	202	101	200	2.72	
DRO >C10-C28*	<10.0	10.0	09/05/2024	ND	199	99.6	200	1.79	
EXT DRO >C28-C36	<10.0	10.0	09/05/2024	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *108 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 8 @ 0-5' (H245357-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	09/05/2024	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2024	ND	199	99.5	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/05/2024	ND	177	88.5	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	09/05/2024	ND					

Surrogate: 1-Chlorooctane *93.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *93.6 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 9 @ 0-5' (H245357-07)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	09/05/2024	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/05/2024	ND	199	99.5	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/05/2024	ND	177	88.5	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	09/05/2024	ND					

Surrogate: 1-Chlorooctane *78.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *78.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/04/2024	Sampling Date:	09/04/2024
Reported:	09/09/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: W 10 @ 0-5' (H245357-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/05/2024	ND	2.04	102	2.00	11.3	
Toluene*	<0.050	0.050	09/05/2024	ND	1.93	96.4	2.00	11.8	
Ethylbenzene*	<0.050	0.050	09/05/2024	ND	2.00	100	2.00	12.0	
Total Xylenes*	<0.150	0.150	09/05/2024	ND	6.15	102	6.00	11.7	
Total BTEX	<0.300	0.300	09/05/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	09/05/2024	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/06/2024	ND	199	99.5	200	0.671	
DRO >C10-C28*	<10.0	10.0	09/06/2024	ND	177	88.5	200	3.99	
EXT DRO >C28-C36	<10.0	10.0	09/06/2024	ND					

Surrogate: 1-Chlorooctane *79.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *84.9 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals	**BILL TO**
Project Manager: Justin Roberts	P.O. #:
Address: 2525 NW County RD	Company:
City: Hobbs State: NM ZIP: 88240	Attn:
Phone #: (575)-392-9996	Address:
Project #: PRS-102	City:
Project Name: Merchant Gap 36	State: Zip:
Project Location: 32.37050650,-103.42139252	Phone #:
Sampler Name: Jeremy Morales	Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL ✓	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: CL	EXT TPH	BTEX	FULL TCLIP	NORM
H245357																			
1	B1 @ 5'	C	1			x					x		9/4/24	11:14 AM	x	x	x		
2	B2 @ 5'	C	1			x					x		9/4/24	11:16 AM					
3	B3 @ 5'	C	1			x					x		9/4/24	11:18 AM					
4	W5 @ 0-6'	C	1			x					x		9/4/24	11:00 AM					
5	W7 @ 0-3'	C	1			x					x		9/4/24	10:34 AM					
6	W8 @ 0-5'	C	1			x					x		9/4/24	2:46 PM					
7	W9 @ 0-5'	C	1			x					x		9/4/24	2:48 PM					
8	W10 @ 0-5'	C	1			x					x		9/4/24	2:50 PM					

Relinquished By:	Date: 9-4-24 Time: 1629	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4.1 Corrected Temp. °C 3.5	Sample Condition Cool: Yes ☑ Intact: Yes ☑ / No ☐	CHECKED BY: (Initials)

Turnaround Time: Standard ☑ Bacteria (only) Sample Condition
Rush ☐ Cool Intact Observed Temp. °C
Thermometer ID #140
Correction Factor -0.6°c
☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM-006 R 3.2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 13, 2024

JUSTIN ROBERTS

DIAMONDBACK DISPOSAL SERVICE INC.

P. O. BOX 2491

HOBBS, NM 88241

RE: MERCHANT GAP 36

Enclosed are the results of analyses for samples received by the laboratory on 09/10/24 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

DIAMONDBACK DISPOSAL SERVICE INC.
JUSTIN ROBERTS
P. O. BOX 2491
HOBBS NM, 88241
Fax To: (575) 392-9376

Received:	09/10/2024	Sampling Date:	09/10/2024
Reported:	09/13/2024	Sampling Type:	Soil
Project Name:	MERCHANT GAP 36	Sampling Condition:	Cool & Intact
Project Number:	PRS - 102	Sample Received By:	Tamara Oldaker
Project Location:	PERMIAN 32.37050650-103.42139252		

Sample ID: B 14 @ 6' (H245450-01)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2024	ND	2.05	103	2.00	0.645	
Toluene*	<0.050	0.050	09/10/2024	ND	1.92	96.1	2.00	3.55	
Ethylbenzene*	<0.050	0.050	09/10/2024	ND	1.97	98.5	2.00	4.19	
Total Xylenes*	<0.150	0.150	09/10/2024	ND	6.03	100	6.00	4.10	
Total BTEX	<0.300	0.300	09/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: CT

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	09/11/2024	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/10/2024	ND	208	104	200	2.38	
DRO >C10-C28*	<10.0	10.0	09/10/2024	ND	202	101	200	2.25	
EXT DRO >C28-C36	<10.0	10.0	09/10/2024	ND					

Surrogate: 1-Chlorooctane *90.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: DiamondBack Disposals		**BILL TO**	
Project Manager: Justin Roberts		P.O. #:	
Address: 2525 NW County RD		Company: Permian Resources	
City: Hobbs	State: NM ZIP: 88240	Attn: Montgomery Floyd	
Phone #: (575)-392-9996		Address:	
Project #:	PRS-102	City:	
Project Name:	Merchant Gap 36	State: Zip:	
Project Location:	32.37050650,-103.42139252	Phone #:	
Sampler Name:	Jason Owsley	Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	CL	EXT TPH	BTEX	FULL TCLIP	NORM
H245450	B14 @ 6'	c	1			x					x		9-10-24	8:30 AM	x	x	x		

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 10.24 Time: 1125	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address: Jasono@diamondbacknm.com / ap@diamondbacknm.com
			REMARKS:

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 5.4c Corrected Temp. °C 4.8c	Sample Condition Cool Intact ☑ Yes ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials) T.O.	Turnaround Time: Standard ☑ Bacteria (only) Sample Condition Rush ☐ Cool Intact Observed Temp. °C Thermometer ID #140 Correction Factor -0.6°c ☐ Yes ☐ Yes ☐ No ☐ No Corrected Temp. °C

FORM C-06 R 3.2 07/21

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

District I
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 394198

QUESTIONS

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2417050147**
Incident Name	**NAPP2417050147 MERCHANT GAP 36 STATE COM 1H @ 30-025-41352**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-025-41352] MERCHANT GAP 36 STATE COM #001H**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Merchant Gap 36 State Com 1H
Date Release Discovered	06/18/2024
Surface Owner	Private

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: Normal Operations | Fitting | Produced Water | Released: 15 BBL | Recovered: 5 BBL | Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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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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 (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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 environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 06/18/2024

District I
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Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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 26 and 50 (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)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 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 provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	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)	9760
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	08/26/2024
On what date will (or did) the final sampling or liner inspection occur	09/10/2024
On what date will (or was) the remediation complete(d)	09/10/2024
What is the estimated surface area (in square feet) that will be reclaimed	3791
What is the estimated volume (in cubic yards) that will be reclaimed	420
What is the estimated surface area (in square feet) that will be remediated	3791
What is the estimated volume (in cubic yards) that will be remediated	420
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	OWL LANDFILL JAL [fJEG1635837366]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	*Not answered.*
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
OTHER (Non-listed remedial process)	*Not answered.*
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: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 10/21/2024
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 (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**381424**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**09/10/2024**
What was the (estimated) number of samples that were to be gathered	**1**
What was the sampling surface area in square feet	**200**

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	3791
What was the total volume (cubic yards) remediated	420
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	3791
What was the total volume (in cubic yards) reclaimed	420
Summarize any additional remediation activities not included by answers (above)	Remediation activities have been completed at site.

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	Name: Matthew Taylor Title: Environmental Coordinator Email: matthew.taylor@permianres.com Date: 10/21/2024

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QUESTIONS (continued)

Operator: Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	OGRID: 372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 394198

CONDITIONS

Operator:	OGRID:
Permian Resources Operating, LLC 300 N. Marienfeld St Ste 1000 Midland, TX 79701	372165
	Action Number: 394198
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	10/24/2024