

## SITE INFORMATION

### Report Type: Closure Report

#### General Site Information:

|                             |                      |         |       |            |  |  |
|-----------------------------|----------------------|---------|-------|------------|--|--|
| Site:                       | Medano VA State #002 |         |       |            |  |  |
| Company:                    | EOG Resources        |         |       |            |  |  |
| Section, Township and Range | Unit E               | Sec. 16 | T 23S | R 31E      |  |  |
| County:                     | Eddy County, NM      |         |       |            |  |  |
| GPS:                        | 32.30613             |         |       | -103.78976 |  |  |
| Surface Owner:              | State of New Mexico  |         |       |            |  |  |

#### Release Data:

|                          |                          |
|--------------------------|--------------------------|
| Date Released:           | 6/5/2008                 |
| Type Release:            | Produced Water           |
| Source of Contamination: | Main Produced Water Line |
| Fluid Released:          | 100 bbls.                |
| Fluids Recovered:        | 0 bbls.                  |

#### Official Communication:

|               |                                                                                    |  |                                                                                  |
|---------------|------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|
| Name:         | James Kennedy                                                                      |  | Clair Gonzales                                                                   |
| Company:      | EOG Resources                                                                      |  | Tetra Tech                                                                       |
| Address:      | 5509 Champions Dr                                                                  |  | 901 West Wall Street                                                             |
|               |                                                                                    |  | Suite 100                                                                        |
| City:         | Midland, TX 79706                                                                  |  | Midland, Texas 79701                                                             |
| Phone number: | 432-686-7016                                                                       |  | 432-687-8634                                                                     |
| Fax:          |                                                                                    |  |                                                                                  |
| Email:        | <a href="mailto:James.Kennedy@eogresources.com">James.Kennedy@eogresources.com</a> |  | <a href="mailto:clair.gonzales@tetrattech.com">clair.gonzales@tetrattech.com</a> |

#### Site Characterization

|                       |                                    |
|-----------------------|------------------------------------|
| Depth to Groundwater: | 128.64' below ground surface (bgs) |
| Karst Potential:      | Low                                |

#### Recommended Remedial Action Levels (RRALs)

| Benzene  | Total BTEX | TPH (GRO+DRO+MRO) | Chlorides    |
|----------|------------|-------------------|--------------|
| 10 mg/kg | 50 mg/kg   | 2,500 mg/kg       | 20,000 mg/kg |



February 10, 2021

Bradford Billings  
Hydrologist  
District 2 Artesia  
Oil Conservation Division  
Santa Fe, NM 87505

**Re: Closure Report  
EOG Resources  
Medano VA State #002  
Unit E, Section 16, Township 23 South, Range 31 East  
Eddy County, New Mexico  
2RP-187**

Mr. Billings:

Tetra Tech, Inc. (Tetra Tech) was contacted by EOG Resources (EOG) to submit this closure report for review. The EOG Medano VA State #002 (API No. 30-015-26382) is located in the Public Land Survey System (PLSS) Unit E, Section 16, Township 23 South, Range 31 East, Eddy County, New Mexico (Site). The Site coordinates are 32.30613°, -103.78976°. The site location is shown on Figures 1 and 2.

## Background

According to the State of New Mexico C-141 Initial Report, the release occurred on June 5, 2008 due to a rupture at the main produced water line located at approximately 0.11 miles west of the Site. The release consisted of 100 barrels (bbls.) of produced water and affected an area of approximately 125 feet (ft) by 10-feet. During immediate response actions, the line was isolated, the well was shut down. No free fluids were recovered. The initial C-141 report was submitted on June 18, 2008 and approved by the NMOCD on July 10, 2008. The release was subsequently assigned the Remediation Permit (RP) number 2RP-187. The C-141 forms are included in Appendix A.

## Site Characterization

A site characterization was performed for the site, and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances, and the site is in a low karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 17, approximately 1-mile West of the site, and has a reported depth to groundwater of 128.64 feet below ground surface. Site characterization data is included in Appendix B.

## Regulatory

Tetra Tech

901 West Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 [www.tetrattech.com](http://www.tetrattech.com)



A risk-based evaluation was performed for the site per the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based on the site characterization, the proposed RRAL for TPH is 2,500 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 20,000 mg/kg.

### **Summary of Remediation Activities**

On August 13, 2008, Yates Petroleum Corporation (Yates) conducted a soil investigation to delineate the release footprint horizontally and vertically. Three (3) samples were taken (GS/Comp-001, GS/Comp-002 and GS/Comp-003) and analyzed for BTEX (50 ppm) and TPH (5,000 ppm). The summary report, included on Appendix C, shows all the samples below RRALs for BTEX and TPH. Yates submitted a new C-141 form on June 18, 2008 including the closure report, but they were denied by the NMOCD on May 13, 2015 because the samples were not analyzed by chloride. The denied C-141 form and the closure report are included in Appendix C.

### **Soil Assessment and Analytical Results**

On February 2, 2021, Tetra Tech personnel were on site to evaluate and sample the release area. The formerly impacted area was identified from the description in the C-141, the aerial imagery and the figure enclosed on the closure report. A total of three (3) auger holes (AH-1, AH-2, and AH-3) were advanced to total depths ranging from surface to 4.5' below ground surface (bgs.) Soils were field screened for salinity using an Extech EC400 ExStik to determine sampling intervals. A total of fifteen (15) samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed exceeded the Site RRAL for chloride (20,000 mg/kg), TPH (20,000 mg/kg), BTEX (50 m/kg) and benzene (10 mg/kg). In addition, all the samples were also below the 600 mg/kg chloride and 100 mg/kg TPH reclamation standards.



## Conclusion

Based on the laboratory results and remediation activities performed, EOG requests closure of this spill issue. The final C-141 initial reports are enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

A handwritten signature in blue ink that reads 'Clair Gonzales'.

Clair Gonzales, P.G.  
Senior Project Manager  
Tetra Tech, Inc.

## Figures



 SITE LOCATION



0 2.5 5  
Miles  
Approximate Scale in Miles

OVERVIEW MAP  
MEDANO VA STATE #002 2RP-187  
Property Located at coordinates 32.30613°, -103.78976°  
EDDY COUNTY, NEW MEXICO



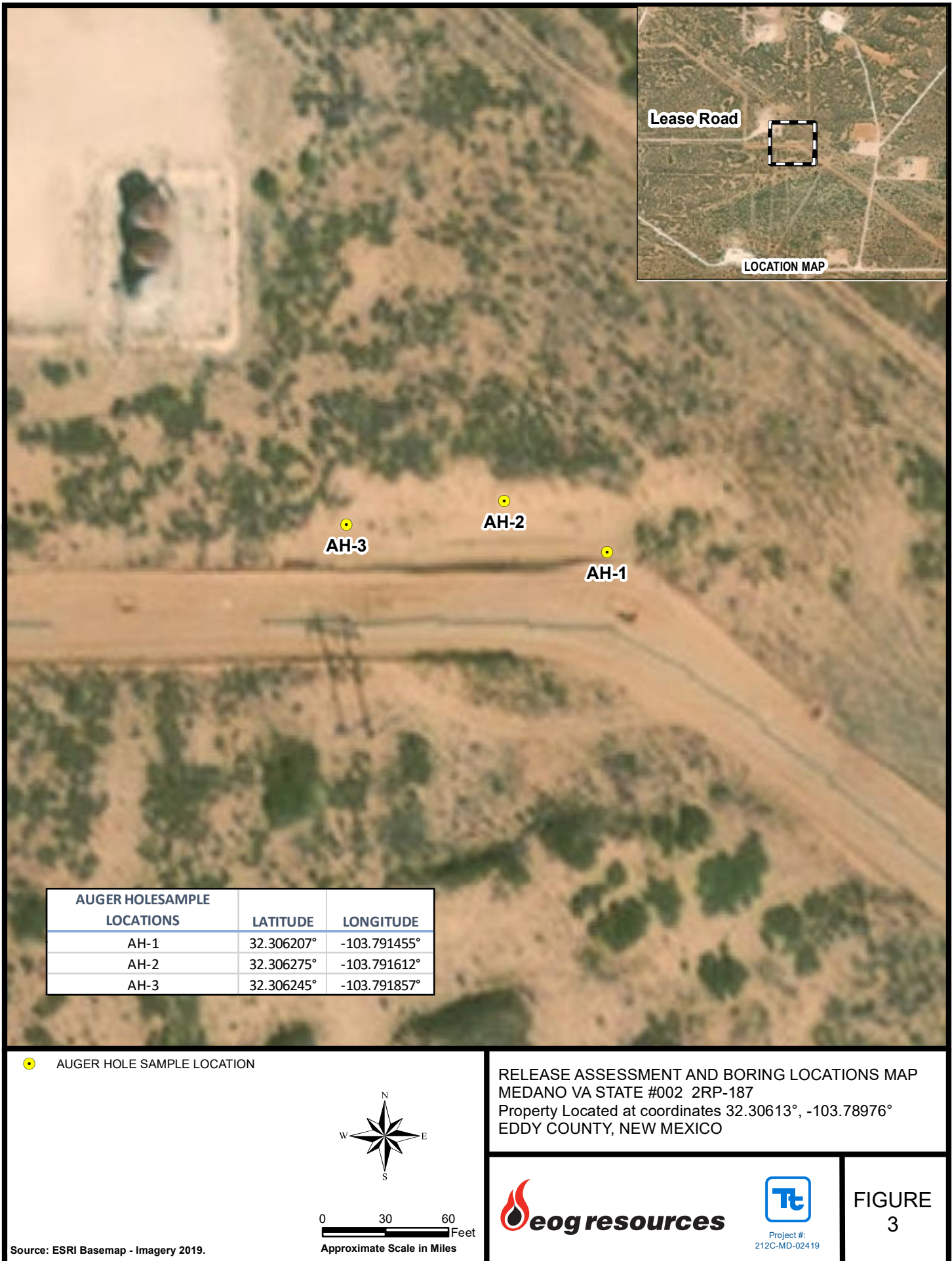
Project #:  
212C-MD-02419

FIGURE  
1

Source: ESRI Basemap - Streets, 2021.

C:\GIS\EGG Resources\212C-MD-02419\_MedanoRd\eggs\212C-MD-02419\_MEDANOVA STATE\_002\_FIG1.mxd 2/9/2021 jml.pdf





## Tables

**Table 1**  
**EOG**  
**Medano VA State #002**  
**Eddy County, New Mexico**

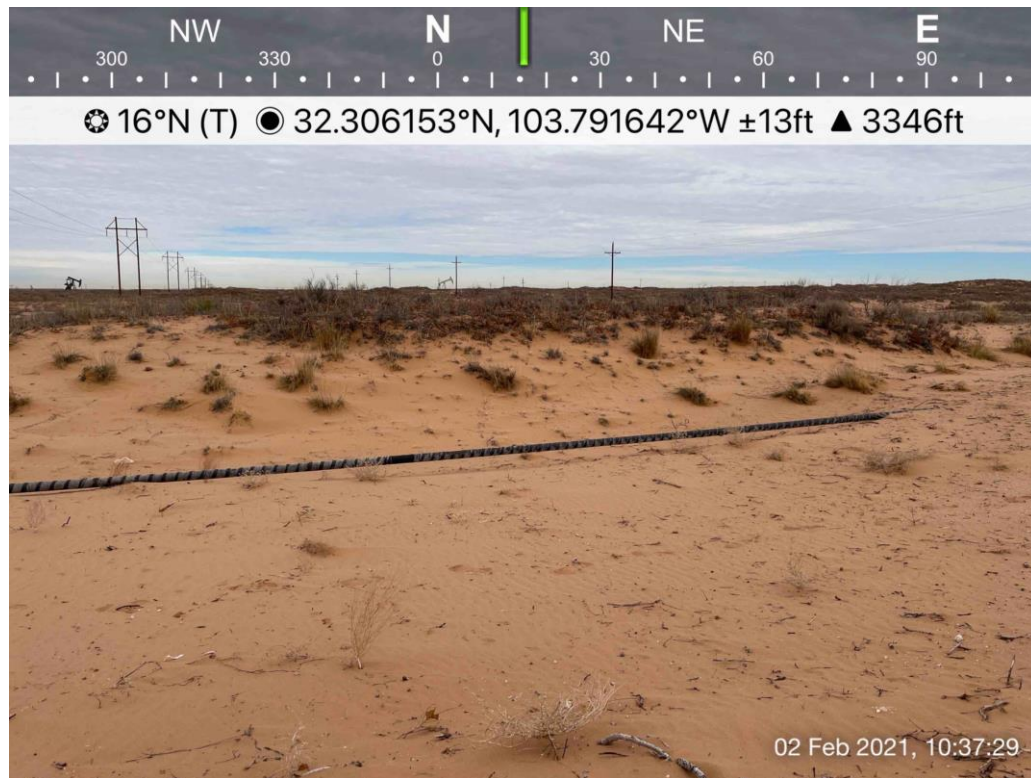
| Sample ID | Sample Date | Sample Depth (ft) | Soil Status |         | TPH (mg/kg) |       |       |       | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|-----------|-------------|-------------------|-------------|---------|-------------|-------|-------|-------|-----------------|-----------------|----------------------|----------------|--------------------|------------------|
|           |             |                   | In-Situ     | Removed | GRO         | DRO   | MRO   | Total |                 |                 |                      |                |                    |                  |
| AH-1      | 2/2/2021    | 0-1               | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00201        | <0.00201        | <0.00201             | <0.00201       | <0.00201           | <9.90            |
|           | "           | 1-1.5             | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00198        | <0.00198        | <0.00198             | <0.00198       | <0.00198           | 10.7             |
|           | "           | 2-2.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 10.5             |
|           | "           | 3-3.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 11.8             |
|           | "           | 4-4.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 10.3             |
| AH-2      | 2/2/2021    | 1.5               | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00201        | <0.00201        | <0.00201             | <0.00201       | <0.00201           | <9.94            |
|           | "           | 1-1.5             | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199        | <0.00199        | <0.00199             | <0.00199       | <0.00199           | <10.0            |
|           | "           | 2-2.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 10.2             |
|           | "           | 3-3.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 10.0             |
|           | "           | 4-4.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 11.1             |
| AH-3      | 2/2/2021    | 1.5               | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00199        | <0.00199        | <0.00199             | <0.00199       | <0.00199           | <9.94            |
|           | "           | 1-1.5             | X           | -       | <50.0       | <50.0 | <50.0 | <50.0 | <0.00201        | <0.00201        | <0.00201             | <0.00201       | <0.00201           | <10.0            |
|           | "           | 2-2.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | <9.92            |
|           | "           | 3-3.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 11.0             |
|           | "           | 4-4.5             | X           | -       | -           | -     | -     | -     | -               | -               | -                    | -              | -                  | 10.1             |

(-)

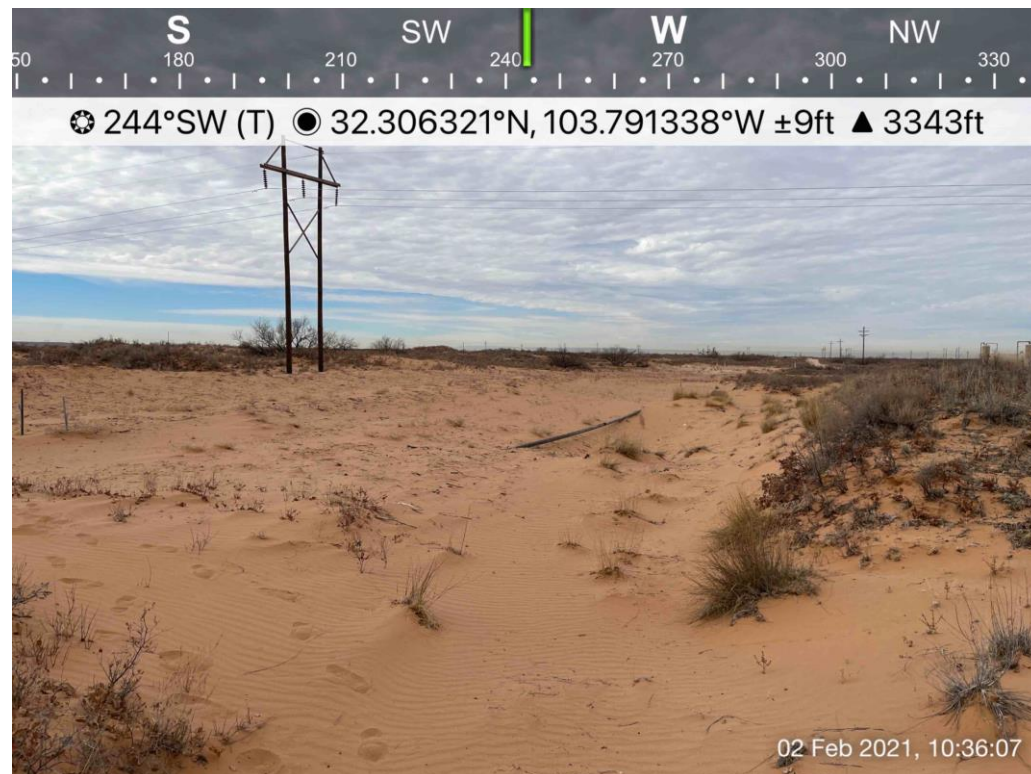
Not Analyzed  
Exceeded RRALs

## Photos

EOG Resources  
Medano VA State #002  
Eddy County, New Mexico



View of Release Area – View North

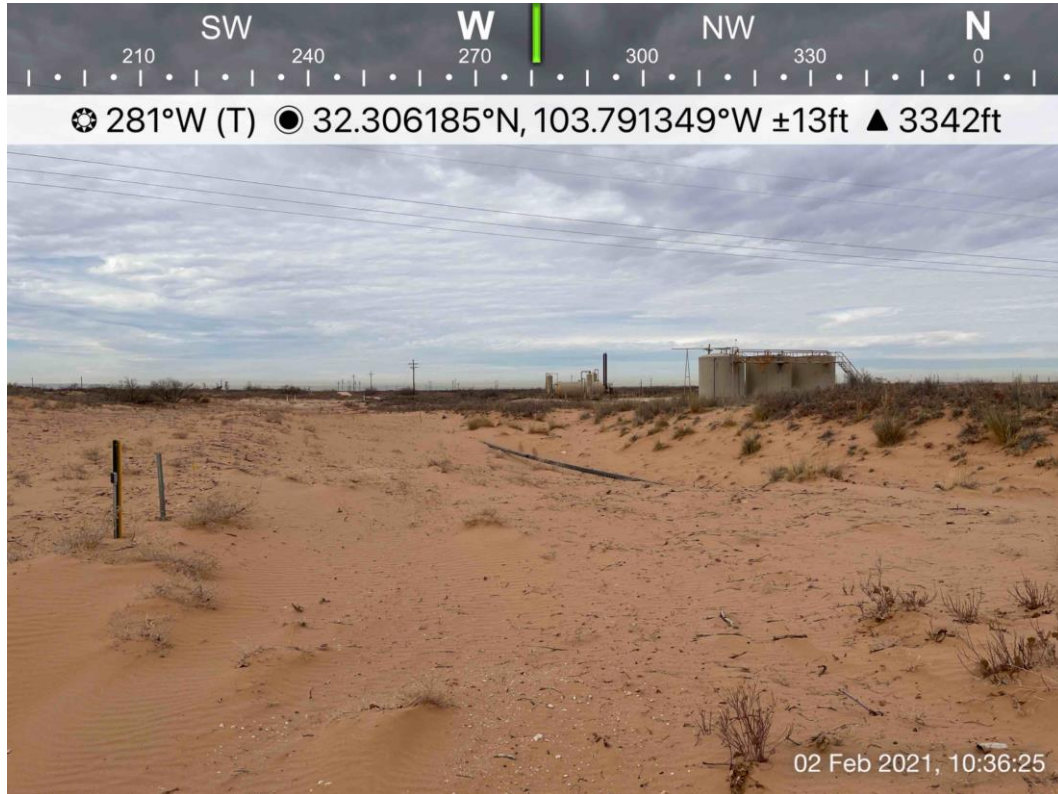


View of Release Area – View Southwest

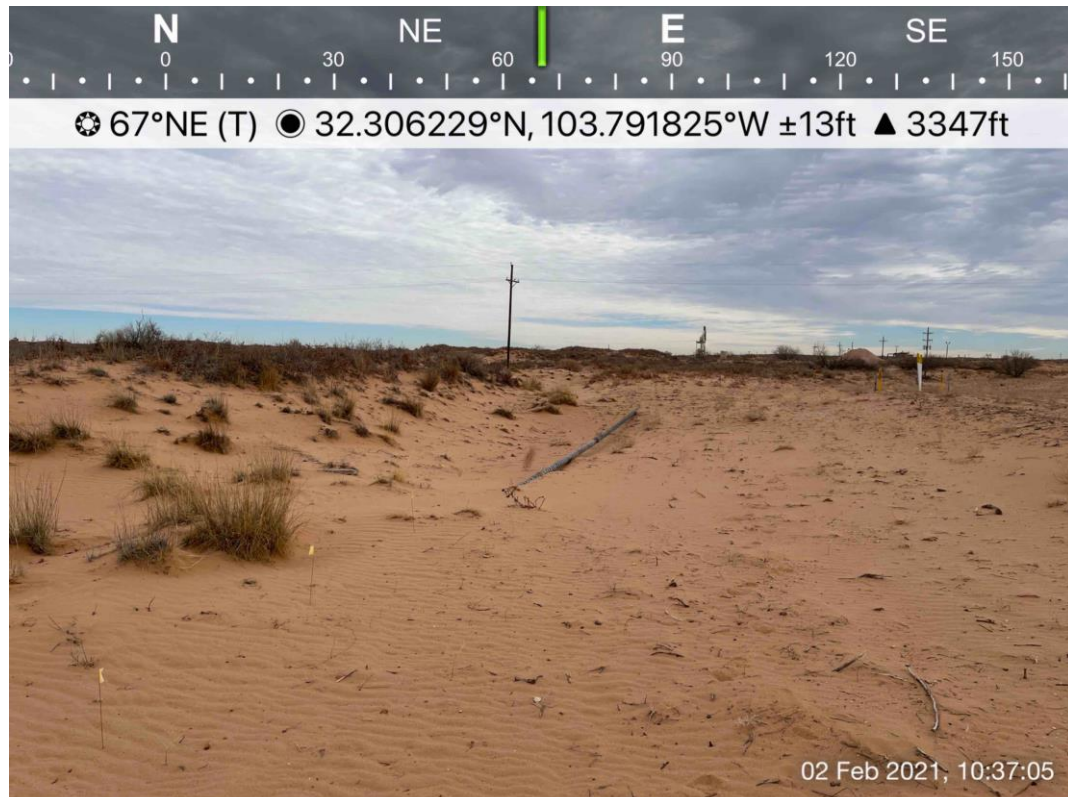
EOG Resources  
Medano VA State #002  
Eddy County, New Mexico



TETRA TECH



View of Release Area – View West



View of Release Area – View East

## Appendix A

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

ISEB0819253837  
nSEB0819253658

#### OPERATOR

☒ Initial Report ☐ Final Report

|                                                |                               |                         |
|------------------------------------------------|-------------------------------|-------------------------|
| Name of Company<br>Yates Petroleum Corporation | OGRID Number<br>25575         | Contact<br>Robert Asher |
| Address<br>104 S. 4 <sup>TH</sup> Street       | Telephone No.<br>505-748-1471 |                         |
| Facility Name<br>Medano VA State #2            | API Number<br>30-015-26382    | Facility Type<br>Well   |

|                        |                        |                      |
|------------------------|------------------------|----------------------|
| Surface Owner<br>State | Mineral Owner<br>State | Lease No.<br>VO-0120 |
|------------------------|------------------------|----------------------|

#### LOCATION OF RELEASE

|                  |               |                 |              |                       |                           |                      |                        |                |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|----------------|
| Unit Letter<br>E | Section<br>16 | Township<br>23N | Range<br>31E | Feet from the<br>1980 | North/South Line<br>North | Feet from the<br>660 | East/West Line<br>West | County<br>Eddy |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|----------------|

Latitude 32.30613 Longitude 103.78976

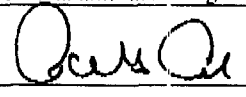
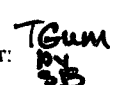
#### NATURE OF RELEASE

|                                                                                                                                          |                                                                  |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|
| Type of Release<br>Produced Water                                                                                                        | Volume of Release<br>100 B/PW                                    | Volume Recovered<br>0 B/PW                 |
| Source of Release<br>Main water line                                                                                                     | Date and Hour of Occurrence<br>6/5/2008, AM                      | Date and Hour of Discovery<br>6/5/2008, AM |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Mike Bratcher/NMOCD District II, (Voicemail) |                                            |
| By Whom?<br>Bob Asher/YPC Environmental Department                                                                                       | Date and Hour<br>6/5/2008, PM                                    |                                            |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.<br>N/A                 |                                            |
| If a Watercourse was Impacted, Describe Fully.*<br>N/A                                                                                   |                                                                  |                                            |

Describe Cause of Problem and Remedial Action Taken.\*  
Main produce water line west of Medano VA State #2 ruptured. Isolated line, shut down well(s), called vacuum truck and repaired line.

Describe Area Affected and Cleanup Action Taken.\*  
An approximate area of 125' X 10'. Vacuum truck picked up remaining produced water. Vertical and horizontal delineation will be made and analysis ran for TPH/BTEX and chlorides (for reference purposes). If initial analytical results for TPH & BTEX are over RRAL's a work plan will be submitted. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. **Depth to Ground Water: >100' (approx. 125'), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

|                                                                                                |                                                                                                                                                                                                                                                            |                                                                                                                                           |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Signature:  | <b>OIL CONSERVATION DIVISION</b>                                                                                                                                                                                                                           |                                                                                                                                           |
| Printed Name: Robert Asher                                                                     | Approved by District Supervisor:                                                                                                                                      | Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/ documentation on or before the Expiration Date. |
| Title: Environmental/Regulatory Agent                                                          | Approval Date: 7-10-08                                                                                                                                                                                                                                     | Expiration Date: 9-12-08                                                                                                                  |
| E-mail Address: boba@ypcnm.com                                                                 | Conditions: <b>DELINEATION REQUIRED</b> until contamination reaches background levels or a site specific acceptable level. As warranted, a work plan may be required.                                                                                      | Attached <input type="checkbox"/> <b>2RP-187</b>                                                                                          |
| Date: Wednesday, June 18, 2008 Phone: 505-748-1471                                             | Within 30 days, on or before <b>8-12-08</b> , completion of a remediation work plan based on delineation should be finalized and submitted for approval to the Division summarizing all actions taken and/or to be taken to mitigate environmental damage. |                                                                                                                                           |

\* Attach Additional Sheets If Necessary

SEB 0819254048

Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|                                                                                                                                                                                                 |                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                           | _____ (ft bgs)                                           |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico  
Oil Conservation Division

Page 4

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: James F. Kennedy Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

|                |  |
|----------------|--|
| Incident ID    |  |
| District RP    |  |
| Facility ID    |  |
| Application ID |  |

## Closure

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

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

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: James F. Kennedy Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: OCD Date: 3/7/2022

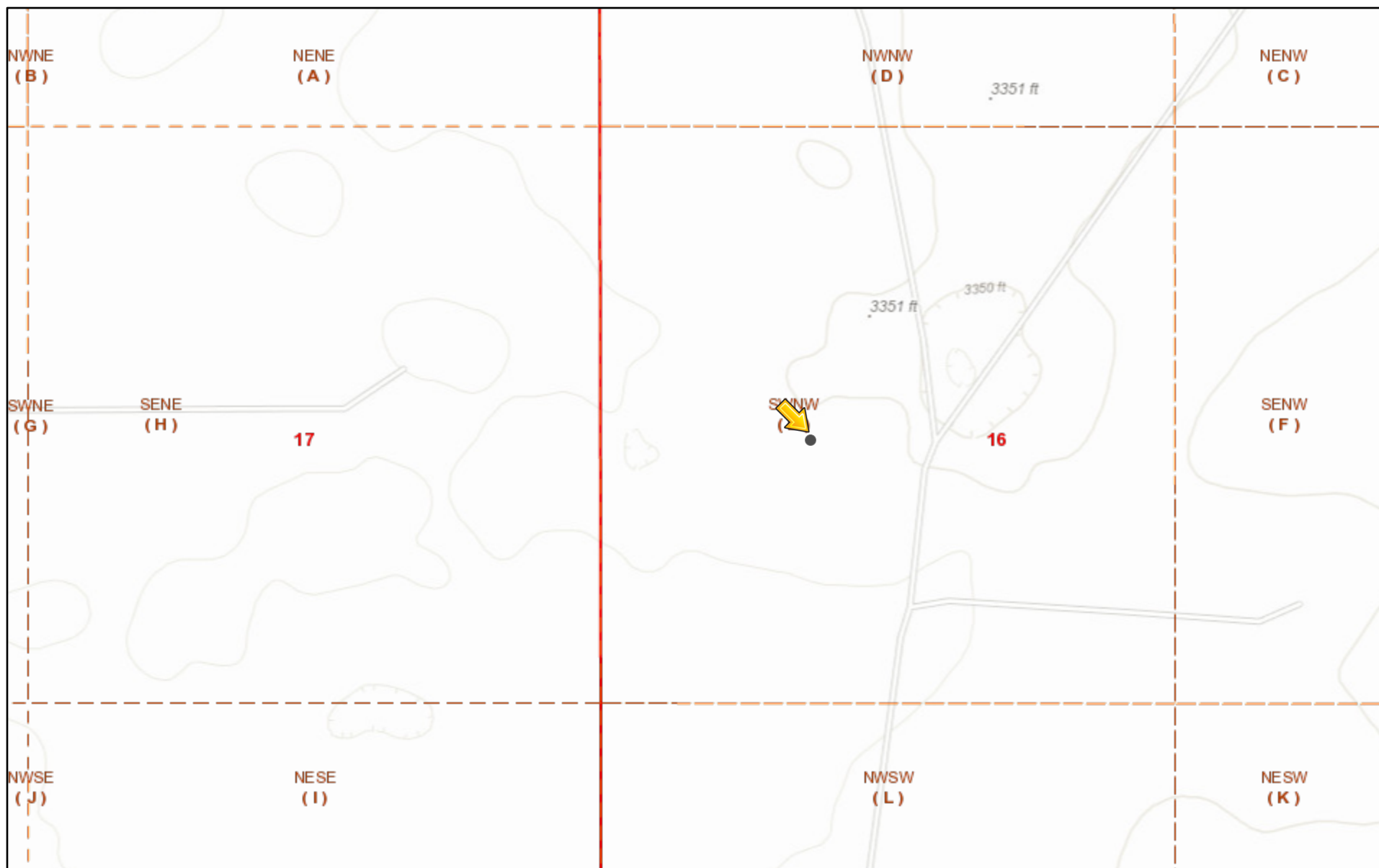
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: Ashley Maxwell Date: 3/17/2023

Printed Name: Ashley Maxwell Title: Environmental Specialist

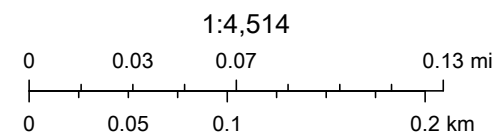
## Appendix B

## 2RP-187



2/9/2021, 10:06:57 AM

-  Override 1
-  PLSS Second Division
-  OSE Streams
-  OCD District Offices
-  OSE Water-bodies
-  PLSS First Division
-  PLJV Probable Playas



OCD, Bureau of Land Management, Texas Parks &amp; Wildlife, Esri, HERE,

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

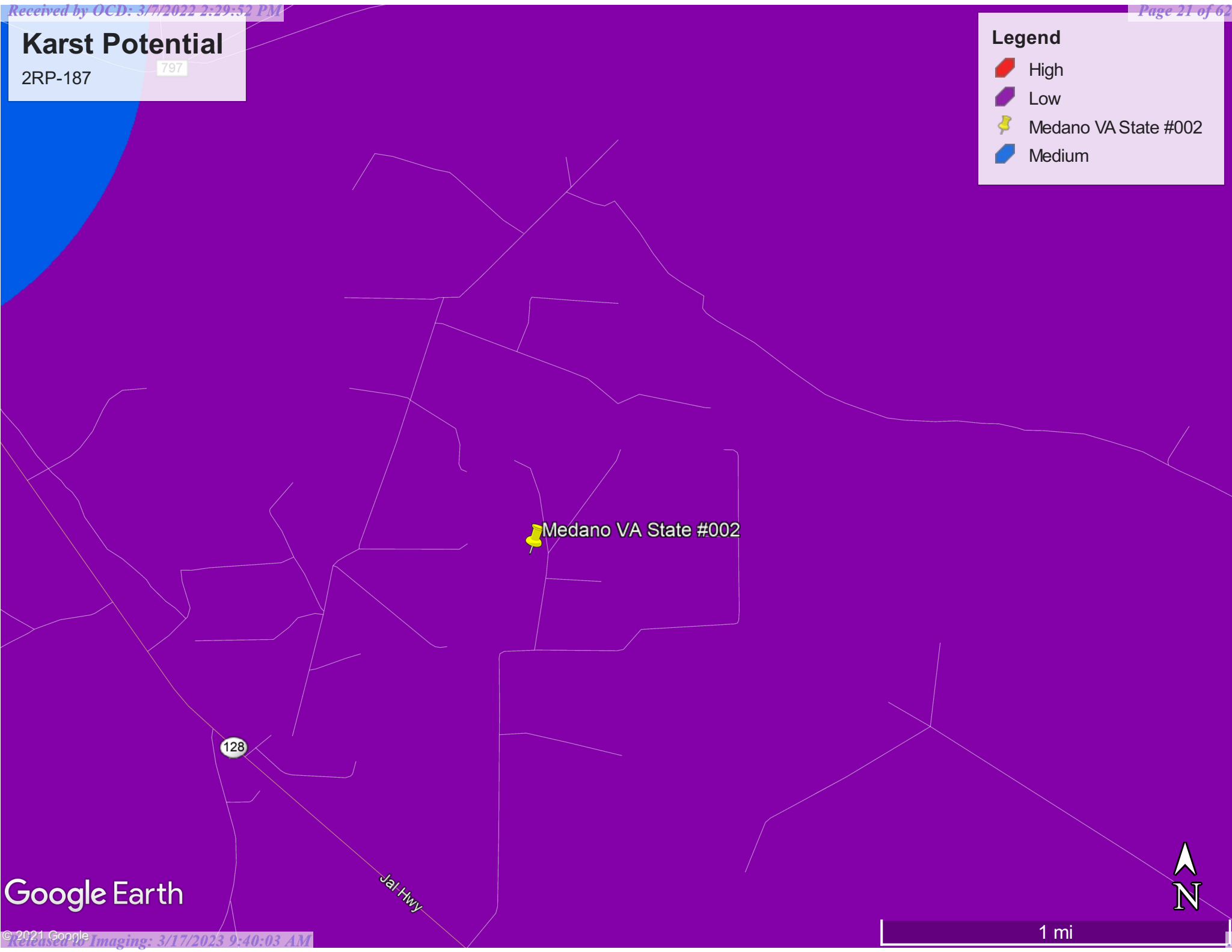
# Karst Potential

2RP-187

797

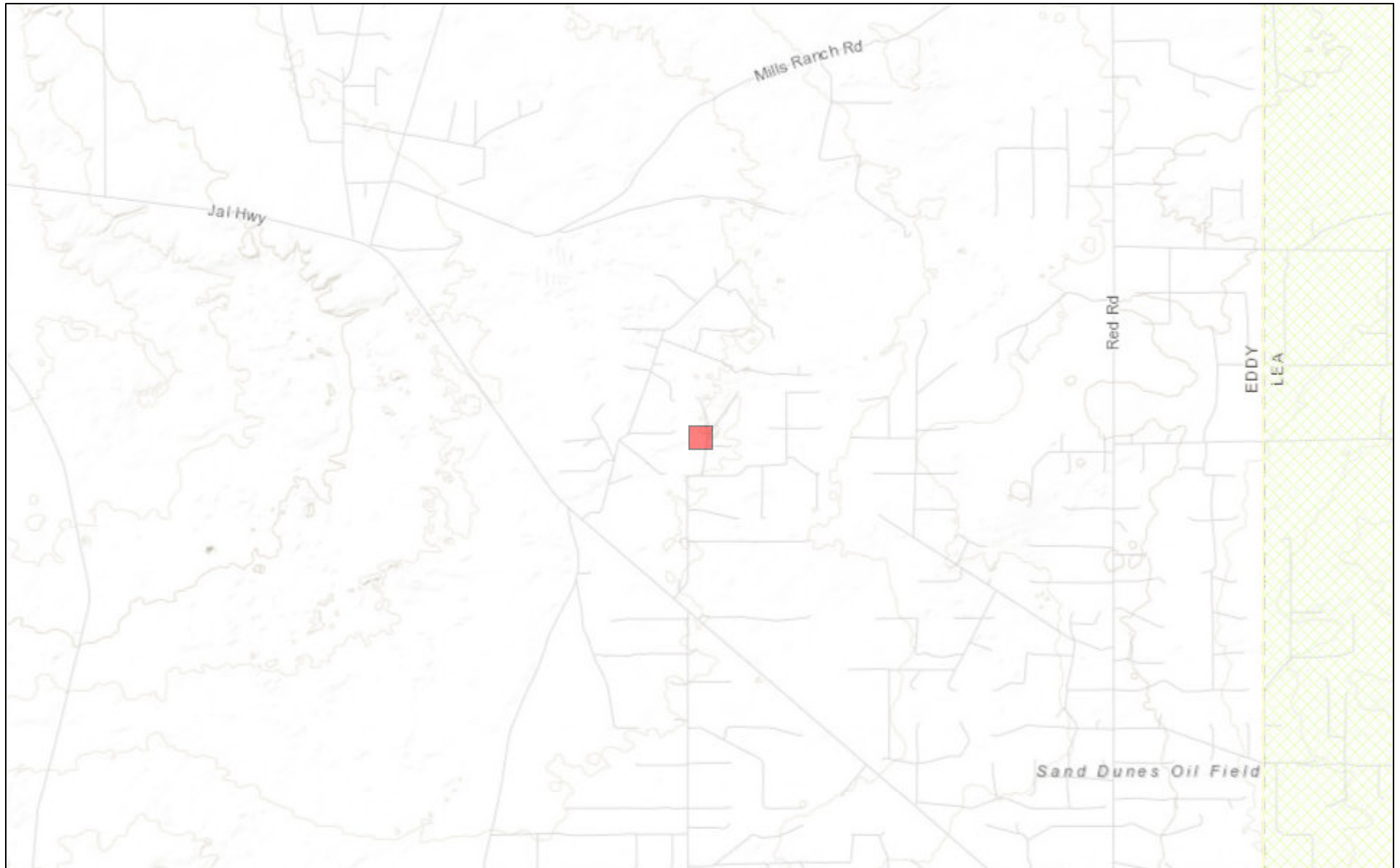
## Legend

-  High
-  Low
-  Medano VA State #002
-  Medium

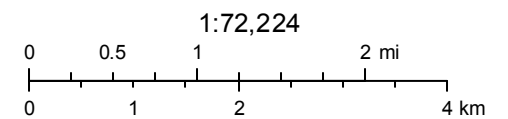


Google Earth

# New Mexico NFHL Data



February 9, 2021



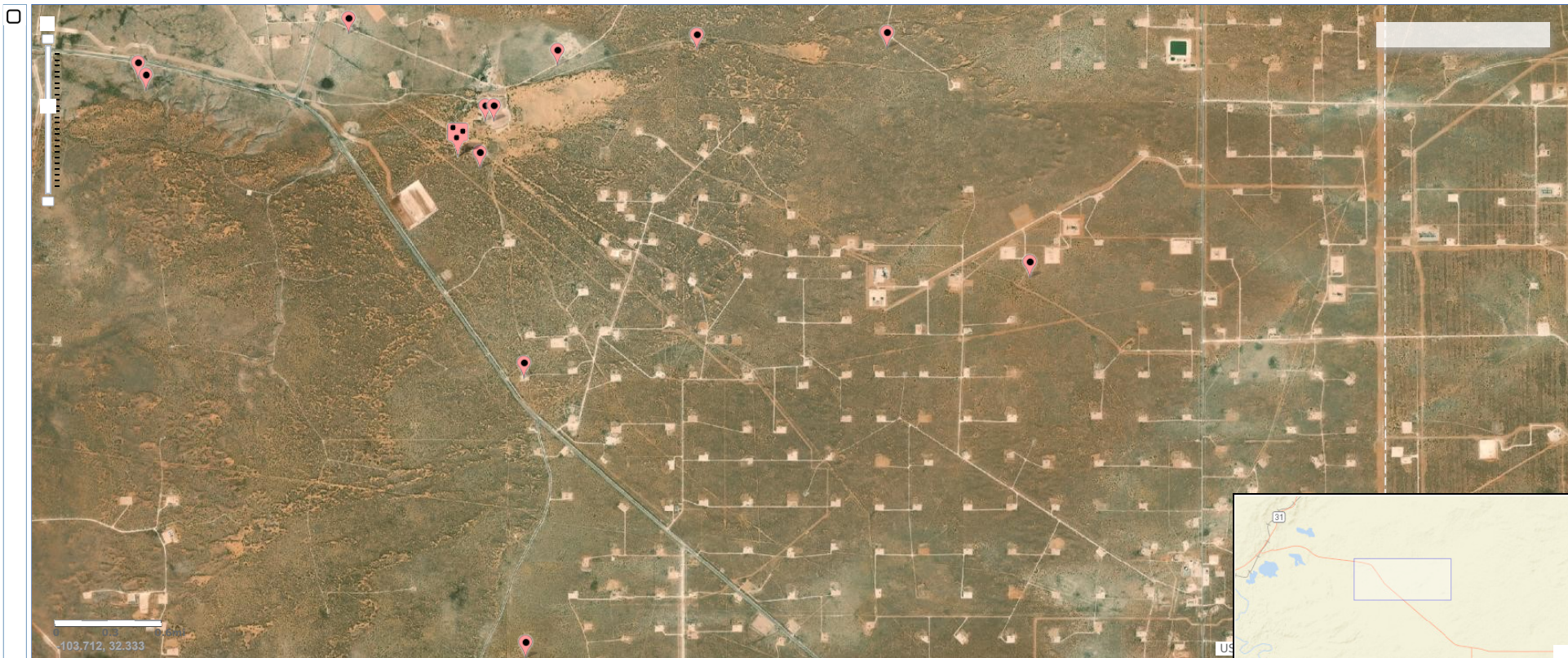
FEMA  
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



National Water Information System: Mapper

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[Contact USGS](#)  
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103.712, 32.333

Site Information



USGS Home  
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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

\* IMPORTANT: Next Generation Station Page

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321809103481801

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

USGS 321809103481801 23S.31E.17.31141

Eddy County, New Mexico  
Latitude 32°18'11.3", Longitude 103°48'23.4" NAD83  
Land-surface elevation 3,326.00 feet above NGVD29  
The depth of the well is 354 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

|                    |
|--------------------|
| Table of data      |
| Tah-separated data |
| Graph of data      |
| Reselect period    |

| Date       | Time      | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement | ?<br>Water-level<br>approval<br>status |
|------------|-----------|-------------------------------------------|------------------------|-----------------------------------------------------|-------------------------------------------------------------------|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|----------------------------------------|
| 1959-02-04 |           |                                           | D                      | 62610                                               | 3215.16                                                           | NGVD29                          | 3           | Z                             |                          |                               | A                                      |
| 1959-02-04 |           |                                           | D                      | 62611                                               | 3216.80                                                           | NAVD88                          | 3           | Z                             |                          |                               | A                                      |
| 1959-02-04 |           |                                           | D                      | 72019                                               | 110.84                                                            |                                 | 3           | Z                             |                          |                               | A                                      |
| 1987-10-15 |           |                                           | D                      | 62610                                               | 3214.80                                                           | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1987-10-15 |           |                                           | D                      | 62611                                               | 3216.44                                                           | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1987-10-15 |           |                                           | D                      | 72019                                               | 111.20                                                            |                                 | 1           | Z                             |                          |                               | A                                      |
| 1992-11-04 |           |                                           | D                      | 62610                                               | 3216.32                                                           | NGVD29                          | 1           | S                             |                          |                               | A                                      |
| 1992-11-04 |           |                                           | D                      | 62611                                               | 3217.96                                                           | NAVD88                          | 1           | S                             |                          |                               | A                                      |
| 1992-11-04 |           |                                           | D                      | 72019                                               | 109.68                                                            |                                 | 1           | S                             |                          |                               | A                                      |
| 2013-01-16 | 23:30 UTC |                                           | m                      | 62610                                               | 3197.36                                                           | NGVD29                          | 3           | S                             | USGS                     | S                             | A                                      |
| 2013-01-16 | 23:30 UTC |                                           | m                      | 62611                                               | 3199.00                                                           | NAVD88                          | 3           | S                             | USGS                     | S                             | A                                      |
| 2013-01-16 | 23:30 UTC |                                           | m                      | 72019                                               | 128.64                                                            |                                 | 3           | S                             | USGS                     | S                             | A                                      |

Explanation

| Section                        | Code   | Description                                   |
|--------------------------------|--------|-----------------------------------------------|
| Water-level date-time accuracy | D      | Date is accurate to the Day                   |
| Water-level date-time accuracy | m      | Date is accurate to the Minute                |
| Parameter code                 | 62610  | Groundwater level above NGVD 1929, feet       |
| Parameter code                 | 62611  | Groundwater level above NAVD 1988, feet       |
| Parameter code                 | 72019  | Depth to water level, feet below land surface |
| Referenced vertical datum      | NAVD88 | North American Vertical Datum of 1988         |
| Referenced vertical datum      | NGVD29 | National Geodetic Vertical Datum of 1929      |
| Status                         | 1      | Static                                        |
| Status                         | 3      | Above                                         |
| Method of measurement          | S      | Steel-tape measurement.                       |
| Method of measurement          | Z      | Other.                                        |
| Measuring agency               |        | Not determined                                |

| Section                     | Code | Description                                                  |
|-----------------------------|------|--------------------------------------------------------------|
| Measuring agency            | USGS | U.S. Geological Survey                                       |
| Source of measurement       |      | Not determined                                               |
| Source of measurement       | S    | Measured by personnel of reporting agency.                   |
| Water-level approval status | A    | Approved for publication -- Processing and review completed. |

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)  
**Title:** Groundwater for New Mexico: Water Levels  
**URL:** <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)  
Page Last Modified: 2021-02-09 11:21:56 EST  
0.57   0.29 nadww02

## Appendix C

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

AUG 29 2008  
OCD-ARTESIA

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

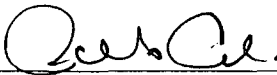
|                                                |                               |                         |
|------------------------------------------------|-------------------------------|-------------------------|
| Name of Company<br>Yates Petroleum Corporation | OGRID Number<br>25575         | Contact<br>Robert Asher |
| Address<br>104 S. 4 <sup>TH</sup> Street       | Telephone No.<br>505-748-1471 |                         |
| Facility Name<br>Medano VA State #2            | API Number<br>30-015-26382    | Order Number<br>2RP-187 |
| Surface Owner<br>State                         | Mineral Owner<br>State        | Lease No.<br>VO-0120    |

#### LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| E           | 16      | 23S      | 31E   | 1980          | North            | 660           | West           | Eddy   |

Latitude 32.30613 Longitude 103.78976

#### NATURE OF RELEASE

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                  |                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|
| Type of Release<br>Produced Water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Volume of Release<br>100 B/PW                                    | Volume Recovered<br>0 B/PW                 |
| Source of Release<br>Main water line                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date and Hour of Occurrence<br>6/5/2008, AM                      | Date and Hour of Discovery<br>6/5/2008, AM |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | If YES, To Whom?<br>Mike Bratcher/NMOCD District II, (Voicemail) |                                            |
| By Whom?<br>Bob Asher/YPC Environmental Department                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Date and Hour<br>6/5/2008, PM                                    |                                            |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | If YES, Volume Impacting the Watercourse.<br>N/A                 |                                            |
| If a Watercourse was Impacted, Describe Fully.*<br>N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                  |                                            |
| Describe Cause of Problem and Remedial Action Taken.*<br>Main produce water line west of Medano VA State #2 ruptured. Isolated line, shut down well(s). called vacuum truck and repaired line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |                                            |
| Describe Area Affected and Cleanup Action Taken.*<br>An approximate area of 125' X 10'. No produced water to recover. Vertical and horizontal delineation will be made and analysis ran for TPH/BTEX. If initial analytical results for TPH & BTEX are over RRAL's a work plan will be submitted. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. <b>Depth to Ground Water: &gt;100' (approx. 168' per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: &gt;1000', SITE RANKING IS 0. Yates Petroleum Corporation requests closure.</b>                                                                                                                                            |                                                                  |                                            |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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. |                                                                  |                                            |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | OIL CONSERVATION DIVISION                                        |                                            |
| Printed Name: Robert Asher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Approved by District Supervisor: <b>DENIED</b> 5/13/15           |                                            |
| Title: Environmental Regulatory Agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Approval Date: N/A                                               | Expiration Date: N/A                       |
| E-mail Address: boba@ypcnm.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Conditions of Approval:<br>PW Release - ND                       | Attached <input type="checkbox"/>          |
| Date: Wednesday, August 27, 2008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Phone: 505-748-1471                                              | Chloride sampling 2RP-187                  |

\* Attach Additional Sheets If Necessary

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210-2118  
TELEPHONE (575) 748-1471

AUG 29 2008  
OCD-ARTESIA

S.P. YATES  
CHAIRMAN EMERITUS  
JOHN A. YATES  
CHAIRMAN OF THE BOARD  
FRANK YATES, JR.  
PRESIDENT  
PEYTON YATES  
DIRECTOR  
JOHN A. YATES, JR.  
DIRECTOR

August 27, 2008

Mr. Mike Bratcher  
NMOCD District II  
1301 W. Grand Ave.  
Artesia, NM 88210

RE: Medano VA State #2  
2RP-187  
30-015-26382  
Section 16, T23S-R31E  
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on June 5, 2008. Vertical/horizontal delineation was conducted on August 13, 2008 and sent to an OCD approved laboratory (enclosed diagram and results). The depth to ground water is greater than 100' (168' per the New Mexico Office of the State Engineer) and the site ranking score is zero (0), RRAL's for BTEX is 50 ppm and TPH is 5000 ppm, the enclosed analytical results are below the Recommended Remediation Action Levels. Yates Petroleum Corporation requests closure.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher  
Environmental Regulatory Agent

Enclosure(s)  
/rca

RANDY G. PATTERSON  
SECRETARY

DAVID LANNING  
CHIEF OPERATING OFFICER

DENNIS G. KINSEY  
TREASURER

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

AUG 29 2008

OCD-ARTESIA

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

## OPERATOR

☐ Initial Report ☒ Final Report

|                                                |                               |                         |
|------------------------------------------------|-------------------------------|-------------------------|
| Name of Company<br>Yates Petroleum Corporation | OGRID Number<br>25575         | Contact<br>Robert Asher |
| Address<br>104 S. 4 <sup>TH</sup> Street       | Telephone No.<br>505-748-1471 |                         |
| Facility Name<br>Medano VA State #2            | API Number<br>30-015-26382    | Facility Type<br>Well   |
|                                                |                               | Order Number<br>2RP-187 |

|                        |                        |                      |
|------------------------|------------------------|----------------------|
| Surface Owner<br>State | Mineral Owner<br>State | Lease No.<br>VO-0120 |
|------------------------|------------------------|----------------------|

## LOCATION OF RELEASE

|                  |               |                 |              |                       |                           |                      |                        |                |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|----------------|
| Unit Letter<br>E | Section<br>16 | Township<br>23S | Range<br>31E | Feet from the<br>1980 | North/South Line<br>North | Feet from the<br>660 | East/West Line<br>West | County<br>Eddy |
|------------------|---------------|-----------------|--------------|-----------------------|---------------------------|----------------------|------------------------|----------------|

Latitude 32.30613 Longitude 103.78976

## NATURE OF RELEASE

|                                                                                                                                          |                                                                  |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|
| Type of Release<br>Produced Water                                                                                                        | Volume of Release<br>100 B/PW                                    | Volume Recovered<br>0 B/PW                 |
| Source of Release<br>Main water line                                                                                                     | Date and Hour of Occurrence<br>6/5/2008, AM                      | Date and Hour of Discovery<br>6/5/2008, AM |
| Was Immediate Notice Given?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?<br>Mike Bratcher/NMOCD District II, (Voicemail) |                                            |
| By Whom?<br>Bob Asher/YPC Environmental Department                                                                                       | Date and Hour<br>6/5/2008, PM                                    |                                            |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                        | If YES, Volume Impacting the Watercourse.<br>N/A                 |                                            |

If a Watercourse was Impacted, Describe Fully.\*

N/A

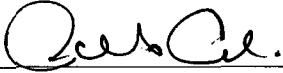
Describe Cause of Problem and Remedial Action Taken.\*

Main produce water line west of Medano VA State #2 ruptured. Isolated line, shut down well(s), called vacuum truck and repaired line.

Describe Area Affected and Cleanup Action Taken.\*

An approximate area of 125' X 10'. No produced water to recover. Vertical and horizontal delineation will be made and analysis ran for TPH/BTEX. If initial analytical results for TPH & BTEX are over RRAL's a work plan will be submitted. If initial analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will be submitted to the OCD requesting closure. **Depth to Ground Water: >100' (approx. 168' per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

|                                                                                                |                                  |                                   |
|------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------|
| Signature:  | <b>OIL CONSERVATION DIVISION</b> |                                   |
| Printed Name: Robert Asher                                                                     | Approved by District Supervisor: |                                   |
| Title: Environmental Regulatory Agent                                                          | Approval Date:                   | Expiration Date:                  |
| E-mail Address: boba@ypcnm.com                                                                 | Conditions of Approval:          | Attached <input type="checkbox"/> |
| Date: Wednesday, August 27, 2008                                                               | Phone: 505-748-1471              |                                   |

\* Attach Additional Sheets If Necessary

Report Date: August 22, 2008  
30-015-26382

Work Order: 8081526  
Medona VA State #2

Page Number: 1 of 1  
Eddy Co., NM

## Summary Report

Robert Asher  
Yates Petroleum Corp.  
105 South 4th South  
Artesia, NM, 88210

Report Date: August 22, 2008

Work Order: 8081526



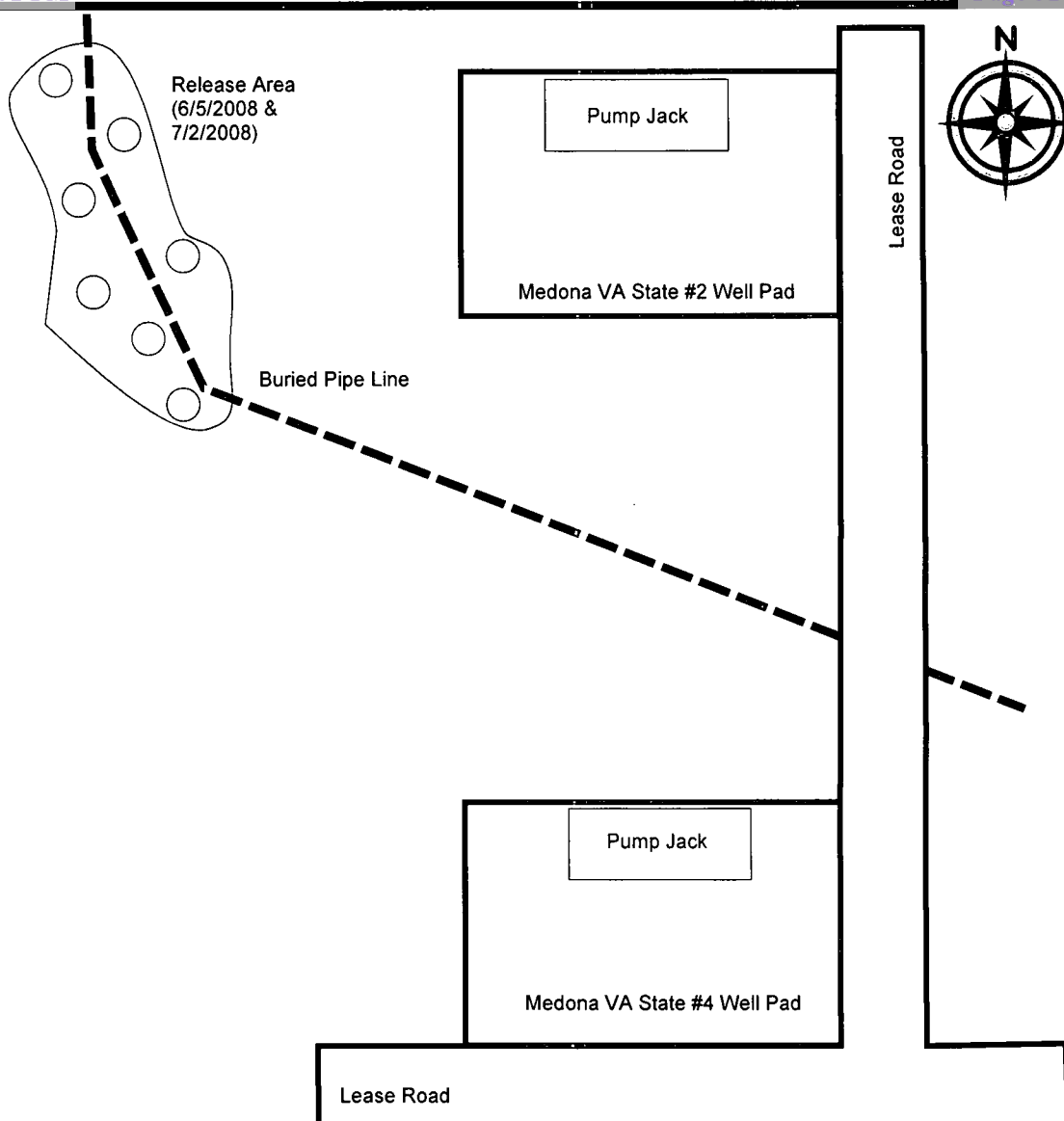
Project Location: Eddy Co., NM  
Project Name: Medona VA State #2  
Project Number: 30-015-26382

| Sample | Description  | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 170823 | GS/Comp.-001 | soil   | 2008-08-13 | 12:52      | 2008-08-15    |
| 170824 | GS/Comp.-002 | soil   | 2008-08-13 | 13:06      | 2008-08-15    |
| 170825 | GS/Comp.-003 | soil   | 2008-08-13 | 13:20      | 2008-08-15    |

| Sample - Field Code   | BTEX               |                    |                         |                   | TPH DRO        | TPH GRO        |
|-----------------------|--------------------|--------------------|-------------------------|-------------------|----------------|----------------|
|                       | Benzene<br>(mg/Kg) | Toluene<br>(mg/Kg) | Ethylbenzene<br>(mg/Kg) | Xylene<br>(mg/Kg) | DRO<br>(mg/Kg) | GRO<br>(mg/Kg) |
| 170823 - GS/Comp.-001 | <0.0100            | <0.0100            | <0.0100                 | <0.0100           | <50.0          | <1.00          |
| 170824 - GS/Comp.-002 | <0.0100            | <0.0100            | <0.0100                 | <0.0100           | 456            | <1.00          |
| 170825 - GS/Comp.-003 | 0.0253             | 0.0333             | <0.0100                 | 0.0231            | 78.6           | 1.05           |

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

*This is only a summary. Please, refer to the complete report package for quality control data.*



| Sample ID   | Sample Date | Sample Type | Depth | BTEX   | GRO  | DRO   | TPH TOTAL |
|-------------|-------------|-------------|-------|--------|------|-------|-----------|
| GS/Comp-001 | 8/13/2008   | Grab/Auger  | 1'    | <0.04  | <1.0 | <50.0 | <51.0     |
| GS/Comp-002 | 8/13/2008   | Grab/Auger  | 2'    | <0.04  | <1.0 | 456.0 | 456.0     |
| GS/Comp-003 | 8/13/2008   | Grab/Auger  | 3'    | 0.0817 | 1.05 | 78.6  | 79.7      |

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 168'). All results are ppm.



**Medona VA State #2**  
**Section 16, T23S-R31E**  
**Eddy County, NM**

**EXHIBIT**  
**Sample Diagram (Not to Scale)**  
 Prepared by Robert Asher  
 Environmental Regulatory Agent  
 August 27, 2008

**New Mexico Office of the State Engineer  
 Point of Diversion Summary**



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

|              |     |     |     |   |   |   |      |   |   |
|--------------|-----|-----|-----|---|---|---|------|---|---|
| POD Number   | Tws | Rng | Sec | q | q | q | Zone | X | Y |
| C 03351 POD1 | 23S | 31E | 04  | 4 | 1 | 4 |      |   |   |

|                               |                               |                 |
|-------------------------------|-------------------------------|-----------------|
| Driller Licence: 421          | GLENN'S WATER WELL SERVICE    | Source: Shallow |
| Driller Name: GLENN, CLARK A. |                               |                 |
| Drill Start Date: 11/20/2007  | Drill Finish Date: 11/20/2007 |                 |
| Log File Date: 12/04/2007     | PCW Received Date:            |                 |
| Pump Type:                    | Pipe Discharge Size:          |                 |
| Casing Size: 6.63             | Estimated Yield: 25           |                 |
| Depth Well: 320               | Depth Water: 168              |                 |

|                                |     |        |               |
|--------------------------------|-----|--------|---------------|
| Water Bearing Stratifications: | Top | Bottom | Description   |
|                                | 240 | 265    | Other/Unknown |
| Casing Perforations:           | Top | Bottom |               |
|                                | 152 | 304    |               |

## Appendix D



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-122-1

Client Project/Site: Medano VA State #002

**For:**

Tetra Tech, Inc.  
901 W Wall  
Ste 100  
Midland, Texas 79701

Attn: Clair Gonzales

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

Authorized for release by:  
2/8/2021 2:24:36 PM

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

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Laboratory Job ID: 890-122-1

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## Definitions/Glossary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

## Qualifiers

## GC VOA

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

## HPLC/IC

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

## Glossary

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

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# Case Narrative

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Job ID: 890-122-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative  
890-122-1

Receipt

The samples were received on 2/2/2021 3:45 PM; the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.6°C

GC VOA

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

HPLC/IC

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

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## Detection Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-01 0'-1'

Lab Sample ID: 890-122-1

No Detections.

Client Sample ID: AH-01 1'-1.5'

Lab Sample ID: 890-122-2

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 10.7   |           | 10.0 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-01 2'-2.5'

Lab Sample ID: 890-122-3

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 10.5   |           | 10.1 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-01 3'-3.5'

Lab Sample ID: 890-122-4

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 11.8   |           | 10.1 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-01 4'-4.5'

Lab Sample ID: 890-122-5

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 10.3   |           | 9.94 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-02 0'-1'

Lab Sample ID: 890-122-6

No Detections.

Client Sample ID: AH-02 1'-1.5'

Lab Sample ID: 890-122-7

No Detections.

Client Sample ID: AH-02 2'-2.5'

Lab Sample ID: 890-122-8

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 10.2   |           | 10.1 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-02 3'-3.5'

Lab Sample ID: 890-122-9

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 10.0   |           | 9.90 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-02 4'-4.5'

Lab Sample ID: 890-122-10

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 11.1   |           | 10.0 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-03 0'-1'

Lab Sample ID: 890-122-11

No Detections.

Client Sample ID: AH-03 1'-1.5'

Lab Sample ID: 890-122-12

No Detections.

Client Sample ID: AH-03 2'-2.5'

Lab Sample ID: 890-122-13

No Detections.

This Detection Summary does not include radiochemical test results.

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## Detection Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-03 3'-3.5'

Lab Sample ID: 890-122-14

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 11.0   |           | 10.1 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

Client Sample ID: AH-03 4'-4.5'

Lab Sample ID: 890-122-15

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|------|-----|-------|---------|---|--------|-----------|
| Chloride | 10.1   |           | 10.1 |     | mg/Kg | 1       |   | 300.0  | Soluble   |

This Detection Summary does not include radiochemical test results.

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-01 0'-1'

Lab Sample ID: 890-122-1

Date Collected: 02/02/21 10:30

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 18:49 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 18:49 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 18:49 | 1       |
| Total BTEX          | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 18:49 | 1       |
| Xylenes, Total      | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 18:49 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 18:49 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 18:49 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene         | 107       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 18:49 | 1       |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 18:49 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <9.90  | U         | 9.90 |     | mg/Kg |   |          | 02/03/21 03:28 | 1       |

## Method: TPH SW8015\_MOD - SW846 8015B DRO

| Analyte                            | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)        | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 21:30 | 1       |
| Gasoline Range Hydrocarbons (GRO)  | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 21:30 | 1       |
| Motor Oil Range Hydrocarbons (MRO) | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 21:30 | 1       |
| Total TPH                          | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 21:30 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 81        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 21:30 | 1       |
| o-Terphenyl    | 91        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 21:30 | 1       |

Client Sample ID: AH-01 1'-1.5'

Lab Sample ID: 890-122-2

Date Collected: 02/02/21 10:35

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 19:56 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 19:56 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 19:56 | 1       |
| Total BTEX          | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 19:56 | 1       |
| Xylenes, Total      | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 19:56 | 1       |
| m-Xylene & p-Xylene | <0.00397 | U         | 0.00397 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 19:56 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 19:56 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene         | 105       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 19:56 | 1       |
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 19:56 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 10.7   |           | 10.0 |     | mg/Kg |   |          | 02/03/21 03:45 | 1       |

## Method: TPH SW8015\_MOD - SW846 8015B DRO

| Analyte                     | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:34 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-01 1'-1.5'

Lab Sample ID: 890-122-2

Date Collected: 02/02/21 10:35

Matrix: Solid

Date Received: 02/02/21 15:45

## Method: TPH SW8015\_MOD - SW846 8015B DRO (Continued)

| Analyte                            | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Hydrocarbons (GRO)  | ND        |           | 50.0     |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:34 | 1       |
| Motor Oil Range Hydrocarbons (MRO) | ND        |           | 50.0     |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:34 | 1       |
| Total TPH                          | ND        |           | 50.0     |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:34 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                     | 83        |           | 70 - 135 |     |       |   | 02/04/21 12:20 | 02/04/21 22:34 | 1       |
| o-Terphenyl                        | 92        |           | 70 - 135 |     |       |   | 02/04/21 12:20 | 02/04/21 22:34 | 1       |

Client Sample ID: AH-01 2'-2.5'

Lab Sample ID: 890-122-3

Date Collected: 02/02/21 10:40

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 10.5   |           | 10.1 |     | mg/Kg |   |          | 02/03/21 03:50 | 1       |

Client Sample ID: AH-01 3'-3.5'

Lab Sample ID: 890-122-4

Date Collected: 02/02/21 10:45

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 11.8   |           | 10.1 |     | mg/Kg |   |          | 02/03/21 03:56 | 1       |

Client Sample ID: AH-01 4'-4'.5'

Lab Sample ID: 890-122-5

Date Collected: 02/02/21 10:50

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 10.3   |           | 9.94 |     | mg/Kg |   |          | 02/03/21 04:02 | 1       |

Client Sample ID: AH-02 0'-1'

Lab Sample ID: 890-122-6

Date Collected: 02/02/21 11:05

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| Ethylbenzene                | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| Toluene                     | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| Total BTEX                  | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| Xylenes, Total              | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| m-Xylene & p-Xylene         | <0.00402  | U         | 0.00402  |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| o-Xylene                    | <0.00201  | U         | 0.00201  |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1,4-Difluorobenzene         | 105       |           | 70 - 130 |     |       |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 |     |       |   | 02/02/21 21:08 | 02/03/21 20:19 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-02 0'-1'

Lab Sample ID: 890-122-6

Date Collected: 02/02/21 11:05

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <9.94  | U         | 9.94 |     | mg/Kg |   |          | 02/03/21 04:19 | 1       |

## Method: TPH SW8015\_MOD - SW846 8015B DRO

| Analyte                            | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)        | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:55 | 1       |
| Gasoline Range Hydrocarbons (GRO)  | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:55 | 1       |
| Motor Oil Range Hydrocarbons (MRO) | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:55 | 1       |
| Total TPH                          | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 22:55 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 80        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 22:55 | 1       |
| o-Terphenyl    | 86        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 22:55 | 1       |

Client Sample ID: AH-02 1'-1.5'

Lab Sample ID: 890-122-7

Date Collected: 02/02/21 11:10

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:41 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:41 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:41 | 1       |
| Total BTEX          | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:41 | 1       |
| Xylenes, Total      | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:41 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:41 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 20:41 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene         | 107       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 20:41 | 1       |
| 4-Bromofluorobenzene (Surr) | 103       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 20:41 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <10.0  | U         | 10.0 |     | mg/Kg |   |          | 02/03/21 04:24 | 1       |

## Method: TPH SW8015\_MOD - SW846 8015B DRO

| Analyte                            | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)        | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:17 | 1       |
| Gasoline Range Hydrocarbons (GRO)  | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:17 | 1       |
| Motor Oil Range Hydrocarbons (MRO) | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:17 | 1       |
| Total TPH                          | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:17 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 91        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 23:17 | 1       |
| o-Terphenyl    | 100       |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 23:17 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-02 2'-2.5'

Lab Sample ID: 890-122-8

Date Collected: 02/02/21 11:15

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 10.2   |           | 10.1 |     | mg/Kg |   |          | 02/03/21 04:30 | 1       |

Client Sample ID: AH-02 3'-3.5'

Lab Sample ID: 890-122-9

Date Collected: 02/02/21 11:20

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 10.0   |           | 9.90 |     | mg/Kg |   |          | 02/03/21 04:36 | 1       |

Client Sample ID: AH-02 4'-4.5'

Lab Sample ID: 890-122-10

Date Collected: 02/02/21 11:25

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 11.1   |           | 10.0 |     | mg/Kg |   |          | 02/03/21 04:42 | 1       |

Client Sample ID: AH-03 0'-1'

Lab Sample ID: 890-122-11

Date Collected: 02/02/21 11:40

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:03 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:03 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:03 | 1       |
| Total BTEX          | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:03 | 1       |
| Xylenes, Total      | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:03 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:03 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:03 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene         | 105       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 21:03 | 1       |
| 4-Bromofluorobenzene (Surr) | 100       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 21:03 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <9.94  | U         | 9.94 |     | mg/Kg |   |          | 02/03/21 04:47 | 1       |

## Method: TPH SW8015\_MOD - SW846 8015B DRO

| Analyte                            | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)        | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:38 | 1       |
| Gasoline Range Hydrocarbons (GRO)  | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:38 | 1       |
| Motor Oil Range Hydrocarbons (MRO) | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:38 | 1       |
| Total TPH                          | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:38 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 23:38 | 1       |
| o-Terphenyl    | 103       |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 23:38 | 1       |

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## Client Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-03 1'-1.5'

Lab Sample ID: 890-122-12

Date Collected: 02/02/21 11:45

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:48 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:48 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:48 | 1       |
| Total BTEX          | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:48 | 1       |
| Xylenes, Total      | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:48 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:48 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 21:48 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene         | 107       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 21:48 | 1       |
| 4-Bromofluorobenzene (Surr) | 104       |           | 70 - 130 | 02/02/21 21:08 | 02/03/21 21:48 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <10.0  | U         | 10.0 |     | mg/Kg |   |          | 02/03/21 05:04 | 1       |

## Method: TPH SW8015\_MOD - SW846 8015B DRO

| Analyte                            | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)        | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:58 | 1       |
| Gasoline Range Hydrocarbons (GRO)  | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:58 | 1       |
| Motor Oil Range Hydrocarbons (MRO) | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:58 | 1       |
| Total TPH                          | ND     |           | 50.0 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 23:58 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 85        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 23:58 | 1       |
| o-Terphenyl    | 97        |           | 70 - 135 | 02/04/21 12:20 | 02/04/21 23:58 | 1       |

Client Sample ID: AH-03 2'-2.5'

Lab Sample ID: 890-122-13

Date Collected: 02/02/21 11:50

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <9.92  | U         | 9.92 |     | mg/Kg |   |          | 02/03/21 05:10 | 1       |

Client Sample ID: AH-03 3'-3.5'

Lab Sample ID: 890-122-14

Date Collected: 02/02/21 11:55

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 11.0   |           | 10.1 |     | mg/Kg |   |          | 02/03/21 05:27 | 1       |

Client Sample ID: AH-03 4'-4.5'

Lab Sample ID: 890-122-15

Date Collected: 02/02/21 12:00

Matrix: Solid

Date Received: 02/02/21 15:45

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 10.1   |           | 10.1 |     | mg/Kg |   |          | 02/03/21 05:33 | 1       |

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## Surrogate Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID    | Client Sample ID       | DFBZ1<br>(70-130) | BFB1<br>(70-130) |
|------------------|------------------------|-------------------|------------------|
| 890-122-1        | AH-01 0'-1'            | 107               | 103              |
| 890-122-1 MS     | AH-01 0'-1'            | 102               | 99               |
| 890-122-1 MSD    | AH-01 0'-1'            | 100               | 102              |
| 890-122-2        | AH-01 1'-1.5'          | 105               | 106              |
| 890-122-6        | AH-02 0'-1'            | 105               | 100              |
| 890-122-7        | AH-02 1'-1.5'          | 107               | 103              |
| 890-122-11       | AH-03 0'-1'            | 105               | 100              |
| 890-122-12       | AH-03 1'-1.5'          | 107               | 104              |
| LCS 890-124/2-A  | Lab Control Sample     | 98                | 94               |
| LCSD 890-124/3-A | Lab Control Sample Dup | 101               | 94               |
| MB 890-124/1-A   | Method Blank           | 105               | 101              |

## Surrogate Legend

DFBZ = 1,4-Difluorobenzene

BFB = 4-Bromofluorobenzene (Surr)

## Method: TPH SW8015\_MOD - SW846 8015B DRO

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 1CO<br>(70-135) | OTPH<br>(70-135) |
|---------------|------------------|-----------------|------------------|
| 890-122-1     | AH-01 0'-1'      | 81              | 91               |
| 890-122-2     | AH-01 1'-1.5'    | 83              | 92               |
| 890-122-6     | AH-02 0'-1'      | 80              | 86               |
| 890-122-7     | AH-02 1'-1.5'    | 91              | 100              |
| 890-122-11    | AH-03 0'-1'      | 92              | 103              |
| 890-122-12    | AH-03 1'-1.5'    | 85              | 97               |

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

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

Lab Sample ID: MB 890-124/1-A

Matrix: Solid

Analysis Batch: 129

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 124

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 17:41 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 17:41 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 17:41 | 1       |
| Total BTEX          | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 17:41 | 1       |
| Xylenes, Total      | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 17:41 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 17:41 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 02/02/21 21:08 | 02/03/21 17:41 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene         | 105          |              | 70 - 130 | 02/02/21 21:08 | 02/03/21 17:41 | 1       |
| 4-Bromofluorobenzene (Surr) | 101          |              | 70 - 130 | 02/02/21 21:08 | 02/03/21 17:41 | 1       |

Lab Sample ID: LCS 890-124/2-A

Matrix: Solid

Analysis Batch: 129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 124

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09638    |               | mg/Kg |   | 96   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.09436    |               | mg/Kg |   | 94   | 71 - 129     |
| Toluene             | 0.100       | 0.09632    |               | mg/Kg |   | 96   | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.1877     |               | mg/Kg |   | 94   | 70 - 135     |
| o-Xylene            | 0.100       | 0.09498    |               | mg/Kg |   | 95   | 71 - 133     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 1,4-Difluorobenzene         | 98            |               | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 94            |               | 70 - 130 |

Lab Sample ID: LCSD 890-124/3-A

Matrix: Solid

Analysis Batch: 129

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 124

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.1000      |                | mg/Kg |   | 100  | 70 - 130     | 4   | 35        |
| Ethylbenzene        | 0.100       | 0.09594     |                | mg/Kg |   | 96   | 71 - 129     | 2   | 35        |
| Toluene             | 0.100       | 0.1001      |                | mg/Kg |   | 100  | 70 - 130     | 4   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1885      |                | mg/Kg |   | 94   | 70 - 135     | 0   | 35        |
| o-Xylene            | 0.100       | 0.09635     |                | mg/Kg |   | 96   | 71 - 133     | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 1,4-Difluorobenzene         | 101            |                | 70 - 130 |
| 4-Bromofluorobenzene (Surr) | 94             |                | 70 - 130 |

Lab Sample ID: 890-122-1 MS

Matrix: Solid

Analysis Batch: 129

Client Sample ID: AH-01 0'-1'

Prep Type: Total/NA

Prep Batch: 124

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00201      | U                | 0.101       | 0.09515   |              | mg/Kg |   | 94   | 70 - 130     |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

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

Lab Sample ID: 890-122-1 MS

Matrix: Solid

Analysis Batch: 129

Client Sample ID: AH-01 0'-1'

Prep Type: Total/NA

Prep Batch: 124

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-----------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene                | <0.00201      | U                | 0.101       | 0.08905   |              | mg/Kg |   | 89   | 71 - 129     |
| Toluene                     | <0.00201      | U                | 0.101       | 0.09208   |              | mg/Kg |   | 92   | 70 - 130     |
| m-Xylene & p-Xylene         | <0.00402      | U                | 0.201       | 0.1760    |              | mg/Kg |   | 87   | 70 - 135     |
| o-Xylene                    | <0.00201      | U                | 0.101       | 0.09063   |              | mg/Kg |   | 90   | 71 - 133     |
| Surrogate                   | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |              |
| 1,4-Difluorobenzene         | 102           |                  | 70 - 130    |           |              |       |   |      |              |
| 4-Bromofluorobenzene (Surr) | 99            |                  | 70 - 130    |           |              |       |   |      |              |

Lab Sample ID: 890-122-1 MSD

Matrix: Solid

Analysis Batch: 129

Client Sample ID: AH-01 0'-1'

Prep Type: Total/NA

Prep Batch: 124

| Analyte                     | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-------|
| Benzene                     | <0.00201      | U                | 0.0996      | 0.08835    |               | mg/Kg |   | 88   | 70 - 130     | 7   | 35    |
| Ethylbenzene                | <0.00201      | U                | 0.0996      | 0.08303    |               | mg/Kg |   | 83   | 71 - 129     | 7   | 35    |
| Toluene                     | <0.00201      | U                | 0.0996      | 0.08618    |               | mg/Kg |   | 87   | 70 - 130     | 7   | 35    |
| m-Xylene & p-Xylene         | <0.00402      | U                | 0.199       | 0.1631     |               | mg/Kg |   | 82   | 70 - 135     | 8   | 35    |
| o-Xylene                    | <0.00201      | U                | 0.0996      | 0.08407    |               | mg/Kg |   | 84   | 71 - 133     | 8   | 35    |
| Surrogate                   | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |              |     |       |
| 1,4-Difluorobenzene         | 100           |                  | 70 - 130    |            |               |       |   |      |              |     |       |
| 4-Bromofluorobenzene (Surr) | 102           |                  | 70 - 130    |            |               |       |   |      |              |     |       |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 890-118/1-A

Matrix: Solid

Analysis Batch: 119

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <10.0     | U            | 10.0 |     | mg/Kg |   |          | 02/03/21 03:11 | 1       |

Lab Sample ID: LCS 890-118/2-A

Matrix: Solid

Analysis Batch: 119

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 500         | 492.7      |               | mg/Kg |   | 99   | 90 - 110     |

Lab Sample ID: LCSD 890-118/3-A

Matrix: Solid

Analysis Batch: 119

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-------|
| Chloride | 500         | 492.1       |                | mg/Kg |   | 98   | 90 - 110     | 0   | 20    |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-122-1 MS

Matrix: Solid

Analysis Batch: 119

Client Sample ID: AH-01 0'-1'

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | <9.90         | U                | 503         | 497.6     |              | mg/Kg |   | 97   | 90 - 110     |

Lab Sample ID: 890-122-1 MSD

Matrix: Solid

Analysis Batch: 119

Client Sample ID: AH-01 0'-1'

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | <9.90         | U                | 502         | 493.5      |               | mg/Kg |   | 97   | 90 - 110     | 1   | 20        |

Lab Sample ID: 890-122-11 MS

Matrix: Solid

Analysis Batch: 119

Client Sample ID: AH-03 0'-1'

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Chloride | <9.94         | U                | 504         | 497.1     |              | mg/Kg |   | 97   | 90 - 110     |

Lab Sample ID: 890-122-11 MSD

Matrix: Solid

Analysis Batch: 119

Client Sample ID: AH-03 0'-1'

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | <9.94         | U                | 504         | 497.0      |               | mg/Kg |   | 97   | 90 - 110     | 0   | 20        |

## Method: TPH SW8015\_MOD - SW846 8015B DRO

Lab Sample ID: 7720905-1-BLK

Matrix: SOIL

Analysis Batch: 3150186

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 3150186\_P

| Analyte                            | BLANK Result | BLANK Qualifier | RL | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------------|-----------------|----|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO)        | U            |                 | 50 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 20:26 | 1       |
| Gasoline Range Hydrocarbons (GRO)  | U            |                 | 50 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 20:26 | 1       |
| Motor Oil Range Hydrocarbons (MRO) | U            |                 | 50 |     | mg/kg |   | 02/04/21 12:20 | 02/04/21 20:26 | 1       |

Lab Sample ID: 7720905-1-BKS

Matrix: SOIL

Analysis Batch: 3150186

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 3150186\_P

| Analyte                           | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-----------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (DRO)       | 1000        | 1180       |               | mg/kg |   | 118  | 70 - 135     |
| Gasoline Range Hydrocarbons (GRO) | 1000        | 1050       |               | mg/kg |   | 105  | 70 - 135     |

Lab Sample ID: 7720905-1-BSD

Matrix: SOIL

Analysis Batch: 3150186

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 3150186\_P

| Analyte                           | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO)       | 1000        | 1120        |                | mg/kg |   | 112  | 70 - 135     | 5   | 20        |
| Gasoline Range Hydrocarbons (GRO) | 1000        | 988         |                | mg/kg |   | 99   | 70 - 135     | 6   | 20        |

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## QC Sample Results

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

## Method: TPH SW8015\_MOD - SW846 8015B DRO

Lab Sample ID: 687087-001 S

Matrix: SOIL

Analysis Batch: 3150186

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 3150186\_P

| Analyte                           | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |  |  |
|-----------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|--|--|
| Diesel Range Organics (DRO)       | <50.0         |                  | 1000        | 905       |              | mg/kg |   | 91   | 70 - 135     |  |  |
| Gasoline Range Hydrocarbons (GRO) | <50.0         |                  | 1000        | 819       |              | mg/kg |   | 82   | 70 - 135     |  |  |

Lab Sample ID: 687087-001 SD

Matrix: SOIL

Analysis Batch: 3150186

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 3150186\_P

| Analyte                           | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-----------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Diesel Range Organics (DRO)       | <50.0         |                  | 1000        | 972        |               | mg/kg |   | 97   | 70 - 135     | 7   | 20        |
| Gasoline Range Hydrocarbons (GRO) | <50.0         |                  | 1000        | 875        |               | mg/kg |   | 88   | 70 - 135     | 7   | 20        |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

## GC VOA

## Prep Batch: 124

| Lab Sample ID    | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 890-122-1        | AH-01 0'-1'            | Total/NA  | Solid  | 5030C  |            |
| 890-122-2        | AH-01 1'-1.5'          | Total/NA  | Solid  | 5030C  |            |
| 890-122-6        | AH-02 0'-1'            | Total/NA  | Solid  | 5030C  |            |
| 890-122-7        | AH-02 1'-1.5'          | Total/NA  | Solid  | 5030C  |            |
| 890-122-11       | AH-03 0'-1'            | Total/NA  | Solid  | 5030C  |            |
| 890-122-12       | AH-03 1'-1.5'          | Total/NA  | Solid  | 5030C  |            |
| MB 890-124/1-A   | Method Blank           | Total/NA  | Solid  | 5030C  |            |
| LCS 890-124/2-A  | Lab Control Sample     | Total/NA  | Solid  | 5030C  |            |
| LCSD 890-124/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 5030C  |            |
| 890-122-1 MS     | AH-01 0'-1'            | Total/NA  | Solid  | 5030C  |            |
| 890-122-1 MSD    | AH-01 0'-1'            | Total/NA  | Solid  | 5030C  |            |

## Analysis Batch: 129

| Lab Sample ID    | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 890-122-1        | AH-01 0'-1'            | Total/NA  | Solid  | 8021B  | 124        |
| 890-122-2        | AH-01 1'-1.5'          | Total/NA  | Solid  | 8021B  | 124        |
| 890-122-6        | AH-02 0'-1'            | Total/NA  | Solid  | 8021B  | 124        |
| 890-122-7        | AH-02 1'-1.5'          | Total/NA  | Solid  | 8021B  | 124        |
| 890-122-11       | AH-03 0'-1'            | Total/NA  | Solid  | 8021B  | 124        |
| 890-122-12       | AH-03 1'-1.5'          | Total/NA  | Solid  | 8021B  | 124        |
| MB 890-124/1-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 124        |
| LCS 890-124/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 124        |
| LCSD 890-124/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 124        |
| 890-122-1 MS     | AH-01 0'-1'            | Total/NA  | Solid  | 8021B  | 124        |
| 890-122-1 MSD    | AH-01 0'-1'            | Total/NA  | Solid  | 8021B  | 124        |

## HPLC/IC

## Leach Batch: 118

| Lab Sample ID    | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|------------------|------------------------|-----------|--------|----------|------------|
| 890-122-1        | AH-01 0'-1'            | Soluble   | Solid  | DI Leach |            |
| 890-122-2        | AH-01 1'-1.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-3        | AH-01 2'-2.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-4        | AH-01 3'-3.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-5        | AH-01 4'-4.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-6        | AH-02 0'-1'            | Soluble   | Solid  | DI Leach |            |
| 890-122-7        | AH-02 1'-1.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-8        | AH-02 2'-2.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-9        | AH-02 3'-3.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-10       | AH-02 4'-4.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-11       | AH-03 0'-1'            | Soluble   | Solid  | DI Leach |            |
| 890-122-12       | AH-03 1'-1.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-13       | AH-03 2'-2.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-14       | AH-03 3'-3.5'          | Soluble   | Solid  | DI Leach |            |
| 890-122-15       | AH-03 4'-4.5'          | Soluble   | Solid  | DI Leach |            |
| MB 890-118/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 890-118/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 890-118/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-122-1 MS     | AH-01 0'-1'            | Soluble   | Solid  | DI Leach |            |
| 890-122-1 MSD    | AH-01 0'-1'            | Soluble   | Solid  | DI Leach |            |
| 890-122-11 MS    | AH-03 0'-1'            | Soluble   | Solid  | DI Leach |            |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

## HPLC/IC (Continued)

## Leach Batch: 118 (Continued)

| Lab Sample ID  | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|----------------|------------------|-----------|--------|----------|------------|
| 890-122-11 MSD | AH-03 0'-1'      | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 119

| Lab Sample ID    | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 890-122-1        | AH-01 0'-1'            | Soluble   | Solid  | 300.0  | 118        |
| 890-122-2        | AH-01 1'-1.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-3        | AH-01 2'-2.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-4        | AH-01 3'-3.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-5        | AH-01 4'-4.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-6        | AH-02 0'-1'            | Soluble   | Solid  | 300.0  | 118        |
| 890-122-7        | AH-02 1'-1.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-8        | AH-02 2'-2.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-9        | AH-02 3'-3.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-10       | AH-02 4'-4.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-11       | AH-03 0'-1'            | Soluble   | Solid  | 300.0  | 118        |
| 890-122-12       | AH-03 1'-1.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-13       | AH-03 2'-2.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-14       | AH-03 3'-3.5'          | Soluble   | Solid  | 300.0  | 118        |
| 890-122-15       | AH-03 4'-4.5'          | Soluble   | Solid  | 300.0  | 118        |
| MB 890-118/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 118        |
| LCS 890-118/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 118        |
| LCSD 890-118/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 118        |
| 890-122-1 MS     | AH-01 0'-1'            | Soluble   | Solid  | 300.0  | 118        |
| 890-122-1 MSD    | AH-01 0'-1'            | Soluble   | Solid  | 300.0  | 118        |
| 890-122-11 MS    | AH-03 0'-1'            | Soluble   | Solid  | 300.0  | 118        |
| 890-122-11 MSD   | AH-03 0'-1'            | Soluble   | Solid  | 300.0  | 118        |

## Subcontract

## Analysis Batch: 3150186

| Lab Sample ID | Client Sample ID       | Prep Type | Matrix | Method            | Prep Batch |
|---------------|------------------------|-----------|--------|-------------------|------------|
| 890-122-1     | AH-01 0'-1'            | Total/NA  | Solid  | TPH               | 3150186_P  |
| 890-122-2     | AH-01 1'-1.5'          | Total/NA  | Solid  | SW8015_MOD<br>TPH | 3150186_P  |
| 890-122-6     | AH-02 0'-1'            | Total/NA  | Solid  | SW8015_MOD<br>TPH | 3150186_P  |
| 890-122-7     | AH-02 1'-1.5'          | Total/NA  | Solid  | SW8015_MOD<br>TPH | 3150186_P  |
| 890-122-11    | AH-03 0'-1'            | Total/NA  | Solid  | SW8015_MOD<br>TPH | 3150186_P  |
| 890-122-12    | AH-03 1'-1.5'          | Total/NA  | Solid  | SW8015_MOD<br>TPH | 3150186_P  |
| 7720905-1-BLK | Method Blank           | Total/NA  | SOIL   | SW8015_MOD<br>TPH | 3150186_P  |
| 7720905-1-BKS | Lab Control Sample     | Total/NA  | SOIL   | SW8015_MOD<br>TPH | 3150186_P  |
| 7720905-1-BSD | Lab Control Sample Dup | Total/NA  | SOIL   | SW8015_MOD<br>TPH | 3150186_P  |
| 687087-001 S  | Matrix Spike           | Total/NA  | SOIL   | SW8015_MOD<br>TPH | 3150186_P  |
| 687087-001 SD | Matrix Spike Duplicate | Total/NA  | SOIL   | SW8015_MOD<br>TPH | 3150186_P  |

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## QC Association Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

## Subcontract

## Prep Batch: 3150186\_P

| Lab Sample ID | Client Sample ID       | Prep Type | Matrix | Method                | Prep Batch |
|---------------|------------------------|-----------|--------|-----------------------|------------|
| 890-122-1     | AH-01 0'-1'            | Total/NA  | Solid  | SW8015P               |            |
| 890-122-2     | AH-01 1'-1.5'          | Total/NA  | Solid  | SW8015P               |            |
| 890-122-6     | AH-02 0'-1'            | Total/NA  | Solid  | SW8015P               |            |
| 890-122-7     | AH-02 1'-1.5'          | Total/NA  | Solid  | SW8015P               |            |
| 890-122-11    | AH-03 0'-1'            | Total/NA  | Solid  | SW8015P               |            |
| 890-122-12    | AH-03 1'-1.5'          | Total/NA  | Solid  | SW8015P               |            |
| 7720905-1-BLK | Method Blank           | Total/NA  | SOIL   | ***DEFAULT<br>PREP*** |            |
| 7720905-1-BKS | Lab Control Sample     | Total/NA  | SOIL   | ***DEFAULT<br>PREP*** |            |
| 7720905-1-BSD | Lab Control Sample Dup | Total/NA  | SOIL   | ***DEFAULT<br>PREP*** |            |
| 687087-001 S  | Matrix Spike           | Total/NA  | SOIL   | ***DEFAULT<br>PREP*** |            |
| 687087-001 SD | Matrix Spike Duplicate | Total/NA  | SOIL   | ***DEFAULT<br>PREP*** |            |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-01 0'-1'

Lab Sample ID: 890-122-1

Date Collected: 02/02/21 10:30

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5030C          |     |                 | 124          | 02/02/21 21:08       | MC      | XC  |
| Total/NA  | Analysis   | 8021B          |     | 1               | 129          | 02/03/21 18:49       | MC      | XC  |
| Soluble   | Leach      | DI Leach       |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0          |     | 1               | 119          | 02/03/21 03:28       | A1S     | XC  |
| Total/NA  | Prep       | SW8015P        |     | 1               | 3150186_P    | 02/04/21 12:20       |         | XM  |
| Total/NA  | Analysis   | TPH SW8015_MOD |     | 1               | 3150186      | 02/04/21 21:30       | ARM     | XM  |

Client Sample ID: AH-01 1'-1.5'

Lab Sample ID: 890-122-2

Date Collected: 02/02/21 10:35

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5030C          |     |                 | 124          | 02/02/21 21:08       | MC      | XC  |
| Total/NA  | Analysis   | 8021B          |     | 1               | 129          | 02/03/21 19:56       | MC      | XC  |
| Soluble   | Leach      | DI Leach       |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0          |     | 1               | 119          | 02/03/21 03:45       | A1S     | XC  |
| Total/NA  | Prep       | SW8015P        |     | 1               | 3150186_P    | 02/04/21 12:20       |         | XM  |
| Total/NA  | Analysis   | TPH SW8015_MOD |     | 1               | 3150186      | 02/04/21 22:34       | ARM     | XM  |

Client Sample ID: AH-01 2'-2.5'

Lab Sample ID: 890-122-3

Date Collected: 02/02/21 10:40

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 03:50       | A1S     | XC  |

Client Sample ID: AH-01 3'-3.5'

Lab Sample ID: 890-122-4

Date Collected: 02/02/21 10:45

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 03:56       | A1S     | XC  |

Client Sample ID: AH-01 4'-4.5'

Lab Sample ID: 890-122-5

Date Collected: 02/02/21 10:50

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 04:02       | A1S     | XC  |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-02 0'-1'

Lab Sample ID: 890-122-6

Date Collected: 02/02/21 11:05

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5030C          |     |                 | 124          | 02/02/21 21:08       | MC      | XC  |
| Total/NA  | Analysis   | 8021B          |     | 1               | 129          | 02/03/21 20:19       | MC      | XC  |
| Soluble   | Leach      | DI Leach       |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0          |     | 1               | 119          | 02/03/21 04:19       | A1S     | XC  |
| Total/NA  | Prep       | SW8015P        |     | 1               | 3150186_P    | 02/04/21 12:20       |         | XM  |
| Total/NA  | Analysis   | TPH SW8015_MOD |     | 1               | 3150186      | 02/04/21 22:55       | ARM     | XM  |

Client Sample ID: AH-02 1'-1.5'

Lab Sample ID: 890-122-7

Date Collected: 02/02/21 11:10

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5030C          |     |                 | 124          | 02/02/21 21:08       | MC      | XC  |
| Total/NA  | Analysis   | 8021B          |     | 1               | 129          | 02/03/21 20:41       | MC      | XC  |
| Soluble   | Leach      | DI Leach       |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0          |     | 1               | 119          | 02/03/21 04:24       | A1S     | XC  |
| Total/NA  | Prep       | SW8015P        |     | 1               | 3150186_P    | 02/04/21 12:20       |         | XM  |
| Total/NA  | Analysis   | TPH SW8015_MOD |     | 1               | 3150186      | 02/04/21 23:17       | ARM     | XM  |

Client Sample ID: AH-02 2'-2.5'

Lab Sample ID: 890-122-8

Date Collected: 02/02/21 11:15

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 04:30       | A1S     | XC  |

Client Sample ID: AH-02 3'-3.5'

Lab Sample ID: 890-122-9

Date Collected: 02/02/21 11:20

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 04:36       | A1S     | XC  |

Client Sample ID: AH-02 4'-4.5'

Lab Sample ID: 890-122-10

Date Collected: 02/02/21 11:25

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 04:42       | A1S     | XC  |

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## Lab Chronicle

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

Client Sample ID: AH-03 0'-1'

Lab Sample ID: 890-122-11

Date Collected: 02/02/21 11:40

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5030C          |     |                 | 124          | 02/02/21 21:08       | MC      | XC  |
| Total/NA  | Analysis   | 8021B          |     | 1               | 129          | 02/03/21 21:03       | MC      | XC  |
| Soluble   | Leach      | DI Leach       |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0          |     | 1               | 119          | 02/03/21 04:47       | A1S     | XC  |
| Total/NA  | Prep       | SW8015P        |     | 1               | 3150186_P    | 02/04/21 12:20       |         | XM  |
| Total/NA  | Analysis   | TPH SW8015_MOD |     | 1               | 3150186      | 02/04/21 23:38       | ARM     | XM  |

Client Sample ID: AH-03 1'-1.5'

Lab Sample ID: 890-122-12

Date Collected: 02/02/21 11:45

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method   | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|----------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5030C          |     |                 | 124          | 02/02/21 21:08       | MC      | XC  |
| Total/NA  | Analysis   | 8021B          |     | 1               | 129          | 02/03/21 21:48       | MC      | XC  |
| Soluble   | Leach      | DI Leach       |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0          |     | 1               | 119          | 02/03/21 05:04       | A1S     | XC  |
| Total/NA  | Prep       | SW8015P        |     | 1               | 3150186_P    | 02/04/21 12:20       |         | XM  |
| Total/NA  | Analysis   | TPH SW8015_MOD |     | 1               | 3150186      | 02/04/21 23:58       | ARM     | XM  |

Client Sample ID: AH-03 2'-2.5'

Lab Sample ID: 890-122-13

Date Collected: 02/02/21 11:50

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 05:10       | A1S     | XC  |

Client Sample ID: AH-03 3'-3.5'

Lab Sample ID: 890-122-14

Date Collected: 02/02/21 11:55

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 05:27       | A1S     | XC  |

Client Sample ID: AH-03 4'-4.5'

Lab Sample ID: 890-122-15

Date Collected: 02/02/21 12:00

Matrix: Solid

Date Received: 02/02/21 15:45

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Soluble   | Leach      | DI Leach     |     |                 | 118          | 02/02/21 19:53       | MC      | XC  |
| Soluble   | Analysis   | 300.0        |     | 1               | 119          | 02/03/21 05:33       | A1S     | XC  |

## Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

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

Eurofins Xenco, Carlsbad

**Accreditation/Certification Summary**

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

**Laboratory: Eurofins Xenco, Carlsbad**

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

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Louisiana | NELAP   | 05092                 | 06-30-21        |

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

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8021B           | 5030C       | Solid  | Total BTEX |

**Laboratory: Eurofins Xenco, Midland**

The accreditations/certifications listed below are applicable to this report.

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

Eurofins Xenco, Carlsbad

## Method Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

| Method   | Method Description                 | Protocol | Laboratory |
|----------|------------------------------------|----------|------------|
| 8021B    | Volatile Organic Compounds (GC)    | SW846    | XC         |
| 300.0    | Anions, Ion Chromatography         | MCAWW    | XC         |
| 8015B    | SW846 8015B DRO                    | SW846    | XM         |
| 5030C    | Purge and Trap                     | SW846    | XC         |
| DI Leach | Deionized Water Leaching Procedure | ASTM     | XC         |

### Protocol References:

ASTM = ASTM International

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

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

### Laboratory References:

XC = Eurofins Xenco, Carlsbad, 1089 N Canal St., Carlsbad, NM 88220, TEL (575)988-3199

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

Eurofins Xenco, Carlsbad

## Sample Summary

Client: Tetra Tech, Inc.  
Project/Site: Medano VA State #002

Job ID: 890-122-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 890-122-1     | AH-01 0'-1'      | Solid  | 02/02/21 10:30 | 02/02/21 15:45 |          |
| 890-122-2     | AH-01 1'-1.5'    | Solid  | 02/02/21 10:35 | 02/02/21 15:45 |          |
| 890-122-3     | AH-01 2'-2.5'    | Solid  | 02/02/21 10:40 | 02/02/21 15:45 |          |
| 890-122-4     | AH-01 3'-3.5'    | Solid  | 02/02/21 10:45 | 02/02/21 15:45 |          |
| 890-122-5     | AH-01 4'-4'.5'   | Solid  | 02/02/21 10:50 | 02/02/21 15:45 |          |
| 890-122-6     | AH-02 0'-1'      | Solid  | 02/02/21 11:05 | 02/02/21 15:45 |          |
| 890-122-7     | AH-02 1'-1.5'    | Solid  | 02/02/21 11:10 | 02/02/21 15:45 |          |
| 890-122-8     | AH-02 2'-2.5'    | Solid  | 02/02/21 11:15 | 02/02/21 15:45 |          |
| 890-122-9     | AH-02 3'-3.5'    | Solid  | 02/02/21 11:20 | 02/02/21 15:45 |          |
| 890-122-10    | AH-02 4'-4.5'    | Solid  | 02/02/21 11:25 | 02/02/21 15:45 |          |
| 890-122-11    | AH-03 0'-1'      | Solid  | 02/02/21 11:40 | 02/02/21 15:45 |          |
| 890-122-12    | AH-03 1'-1.5'    | Solid  | 02/02/21 11:45 | 02/02/21 15:45 |          |
| 890-122-13    | AH-03 2'-2.5'    | Solid  | 02/02/21 11:50 | 02/02/21 15:45 |          |
| 890-122-14    | AH-03 3'-3.5'    | Solid  | 02/02/21 11:55 | 02/02/21 15:45 |          |
| 890-122-15    | AH-03 4'-4.5'    | Solid  | 02/02/21 12:00 | 02/02/21 15:45 |          |

Eurofins Xenco, Carlsbad

## **Analysis Request of Chain of Custody Record**



**Tetra Tech, Inc.**

4000 N. Big Spring Street, Ste  
401 Midland, Texas 79705  
Tel (432) 662-4558  
Fax (432) 682-3848

890-122 Chain of Custody

1 of 2

|                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|---------------|--|-----------------------------------|--|--|--|
| Client Name:<br><b>EOG</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  | Site Manager: |  |                                   |  |  |  |
| Project Name:<br><b>Medano VA State #002</b>                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |               |  |                                   |  |  |  |
| Project Location: (county, state)<br><b>Lea, NM</b>                                                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |  |  |               |  | Project #:<br><b>212C-MD-2419</b> |  |  |  |
| Invoice to:<br><b>EOG: Adm. James Kennedy</b>                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |               |  |                                   |  |  |  |
| Receiving Laboratory:<br><b>Euroflms</b>                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |               |  |                                   |  |  |  |
| Comments:                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |               |  |                                   |  |  |  |
| Sampler Signature: <i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |               |  |                                   |  |  |  |
| LAB #<br>( Lab use ONLY )                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |               |  |                                   |  |  |  |
| SAMPLE IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |               |  |                                   |  |  |  |
| SAMPLING<br>YEAR: 2021<br>DATE TIME MATRIX PRESERVATIVE METHOD<br>WATER SOIL HCL HNO3 ICE<br># CONTAINERS FILTERED (Y/N)                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-1 0'-1' 2-Feb 1030 X X X X X X X X X X X X BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35) TPH 8015M ( GRO - DRO - ORO) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Semi Volatiles RCI GC/MS Vol. 8260B / 624 GC/MS Semi. Vol. 8270C/625 PCB's 6082 / 608 NORM PLM (Asbestos) Chloride Chloride Sulfate TDS General Water Chemistry (see attached list) Anion/Cation Balance Asbestos Hold |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-1 1'-1.5' 2-Feb 1035 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-1 2'-2.5' 2-Feb 1040 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-1 3'-3.5' 2-Feb 1045 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-1 4'-4.5' 2-Feb 1050 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-2 0'-1' 2-Feb 1105 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-2 1'-1.5' 2-Feb 1110 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-2 2'-2.5' 2-Feb 1115 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-2 3'-3.5' 2-Feb 1120 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| AH-2 4'-4.5' 2-Feb 1125 X X X X X X X X X X X X                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |               |  |                                   |  |  |  |
| Relinquished by: <i>[Signature]</i> Date: 3/2/21 Time: Received by: <i>[Signature]</i> Date: 2.2.21 1526 Time: LAB USE ONLY                                                                                                                                                                                                                                                                                                                            |  |  |  |  |  |               |  |                                   |  |  |  |
| Relinquished by: <i>[Signature]</i> Date: 3/2/21 Time: Received by: <i>[Signature]</i> Date: 2.2.21 1526 Time: REMARKS:                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |               |  |                                   |  |  |  |
| Relinquished by: <i>[Signature]</i> Date: 3/2/21 Time: Received by: <i>[Signature]</i> Date: 2.2.21 1526 Time: Sample Temperature: 21.8/21.6                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |               |  |                                   |  |  |  |
| (Circle) HAND DELIVERED FEDEX UPS Tracking #: Rush-Charges-Authorized Special Report Limits or TRRP Report                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |               |  |                                   |  |  |  |

ORIGINAL COPY

## Analysis Request of Chain of Custody Record



**Tetra Tech, Inc.**

**4000 N. Big Spring Street, Ste  
401 Midland, Texas 79705  
Tel (432) 682-4559  
Fax (432) 682-3946**

Page 2 of 2

[illegible]

ORIGINAL COPY

## Login Sample Receipt Checklist

Client: Tetra Tech, Inc.

Job Number: 890-122-1

Login Number: 122

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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

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

CONDITIONS  
  
Action 87737

CONDITIONS

|                                                                      |                                                           |
|----------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>EOG RESOURCES INC<br>P.O. Box 2267<br>Midland, TX 79702 | OGRID:<br>7377                                            |
|                                                                      | Action Number:<br>87737                                   |
|                                                                      | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| amaxwell   | None      | 3/17/2023      |