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

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

# Release Notification

## Responsible Party

| | |
|---|---|
| Responsible Party Dugan Production | OGRID 006515 |
| Contact Name Kevin Smaka | Contact Telephone 505-325-1921 |
| Contact email kevin.smaka@duganproduction.com | Incident # *(assigned by OCD)* |
| Contact mailing address Box 420, Farmington NM 87499 | |

## Location of Release Source

Latitude 36.7552223 Longitude -108.2850723
*(NAD 83 in decimal degrees to 5 decimal places)*

| | |
|---|---|
| Site Name Com #91 pipeline | Site Type pipeline |
| Date Release Discovered 4/14/2020 | API# *(if applicable) NA* 30-045-29935 |

| Unit Letter | Section | Township | Range | County |
|---|---|---|---|---|
| L | 2 | 29N | 14W | San Juan |

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

## Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| | | |
|---|---|---|
| ☐ Crude Oil | Volume Released (bbls) | Volume Recovered (bbls) |
| ☒ Produced Water | Volume Released (bbls) 19 | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | ☒ Yes ☐ No |
| ☐ Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| ☐ Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |

Cause of Release: A valve in Dugan's produced water pipeline began leaking due to internal corrosion.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

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

| | |
|---|---|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br>☐ Yes ☒ No | If YES, for what reason(s) does the responsible party consider this a major release? |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? | |

## Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| 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? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☐ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☐ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☐ No |
| Did the release impact areas **not** on an exploration, development, production, or storage site? | ☐ Yes ☐ No |

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| Incident ID | |
| 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: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

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

# Remediation Plan

**Remediation Plan Checklist**: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only**: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

**OCD Only**

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

| | |
|---|---|
| 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.***

- [x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- [x] 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)
- [x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- [x] 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: Kevin Smaka Title: Regulatory Engineer

Signature: Date: July 28, 2020

email: kevin.smaka@duganproduction.com Telephone: 505-325-1821 x1049

**OCD Only**

Received by: Date:

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

Closure Approved by: Date: 3/26/2021

Printed Name: Cory Smith Title: Environmental Specialist

# Com #91 Spill Closure Report

On 4/14/2020 Dugan was notified by OCD inspectors that a potential release was occurring near the Com #91 well site. Dugan investigated the area and found a leaking valve inside a valve can. Dugan took the following actions after determining the cause of the spill:

1. Dugan personnel took the pipeline out of service, replaced the valve and constructed a fence to prevent harm to the public, wildlife and surrounding areas.
2. The affected area measured most nearly to be a rectangle 15' x 40'. 500 lbs of gypsum were applied to the soils and 80 bbls of fresh water were applied to the spill area in an effort to remediate the soils.
3. Dugan sampled the spill area on 4/24/2020. A copy of the notice has been included with this report. Sampling results indicated that all of the contaminated soils had been successfully remediated. None of the samples contained any BTEX or hydrocarbons. All contained traces of chlorides however they were all below 600 mg/kg.

Sampling results indicated that remedial activities were successful. Since this was an active well site there was no further action on Dugan's part.

Note: By Dugan's counting this report was due by July 13. We recognize the rule states that after that 90 day timeframe the operator must include site characterization and closure plans. Dugan was late with the report as a result of confusion and work disruption caused by the Covid-19 pandemic. As we go forward living in a pandemic we hope to do better and avoid being late with our paperwork. We apologize and hope the division understands.

## Kevin Smaka

**From:** Kevin Smaka
**Sent:** Monday, April 20, 2020 3:26 PM
**To:** 'aadeloye@blm.gov'; 'Smith, Cory, EMNRD'; Johnson, David
**Subject:** Notification of sampling

Dugan plans to sample soils as part of remediation at the following well sites;

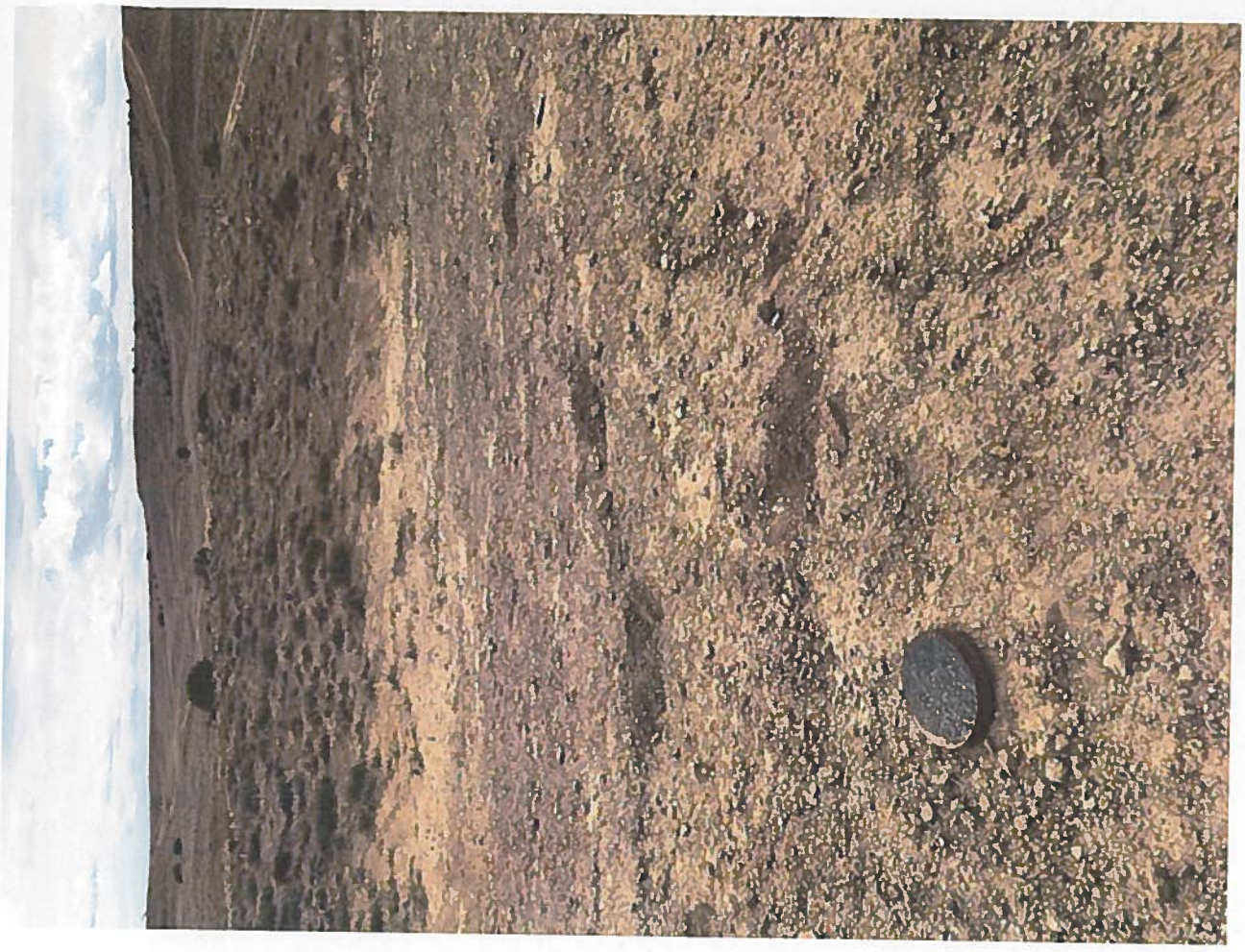
Com #91, API# 30-045-29935, State Lease.
Dorsey #90, API# 30-045-33861, Federal Lease.

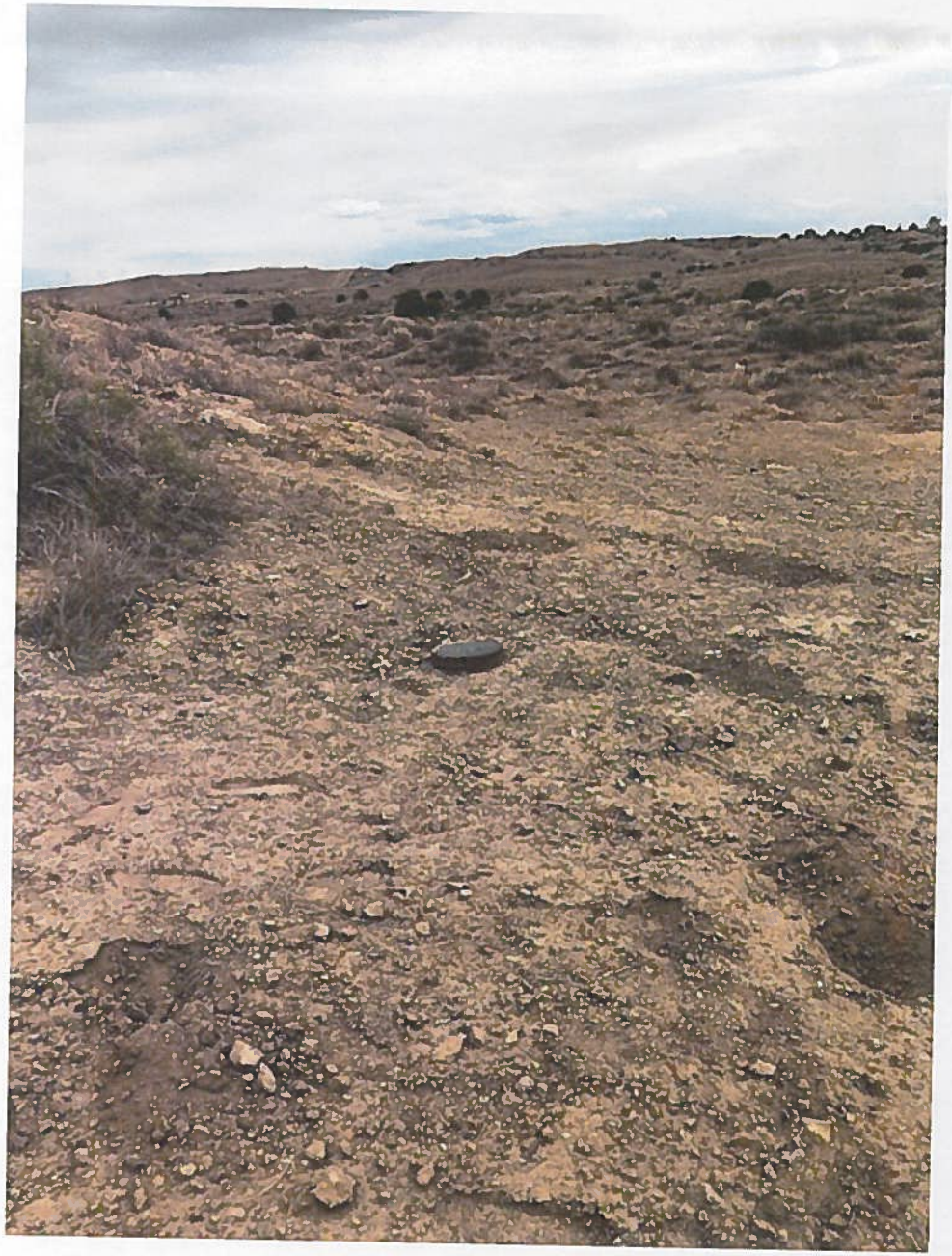
Dugan will conduct sampling activities this Friday, 4/24/2020 @ 10:00 AM. We will start at the Com #91.

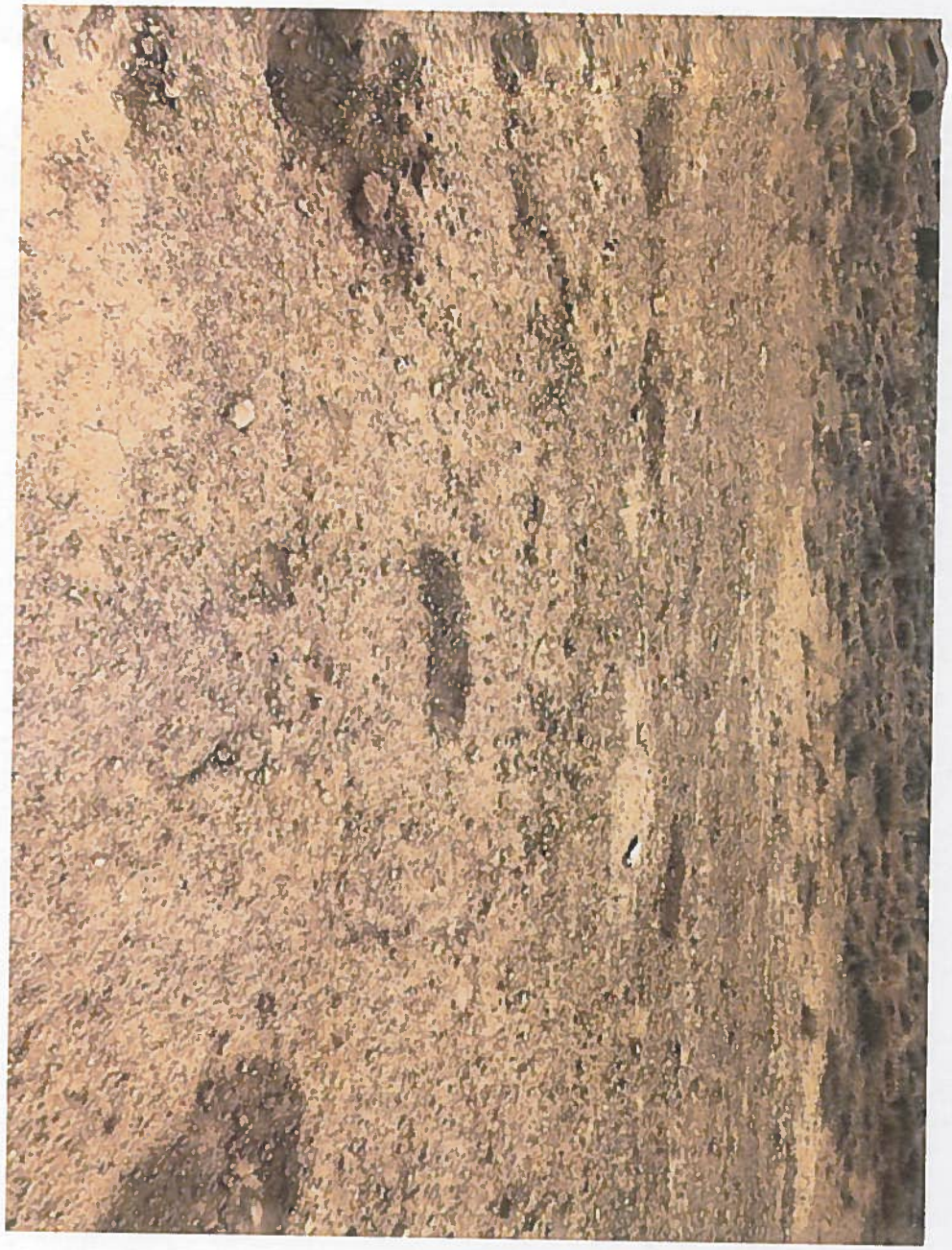
Kevin Smaka
Regulatory Engineer
Dugan Production Corp.
505-486-6207

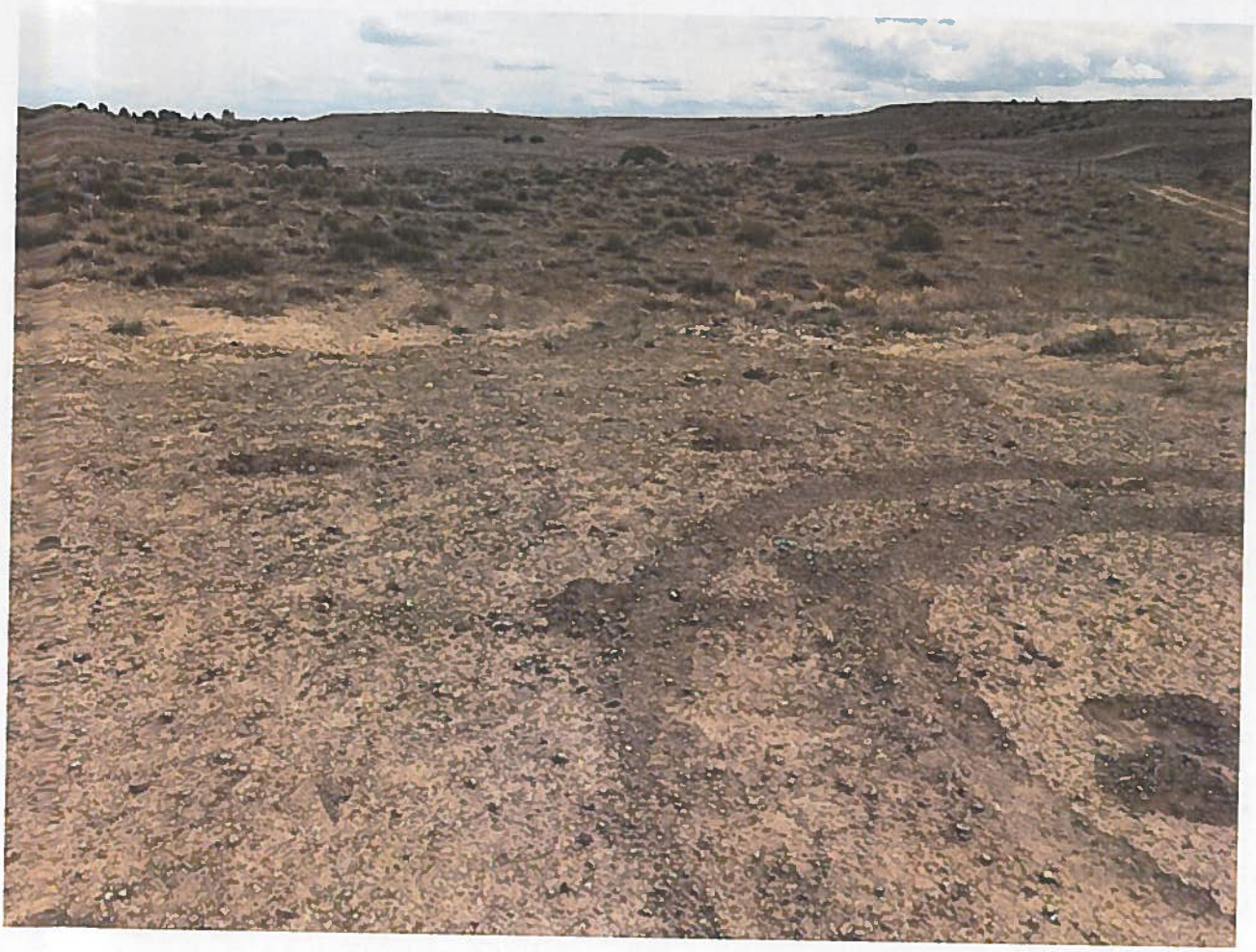
**Kevin Smaka**

**From:** Kevin Smaka <kevin.smaka@icloud.com>
**Sent:** Friday, July 24, 2020 2:48 PM
**To:** Kevin Smaka
**Subject:** Com 91



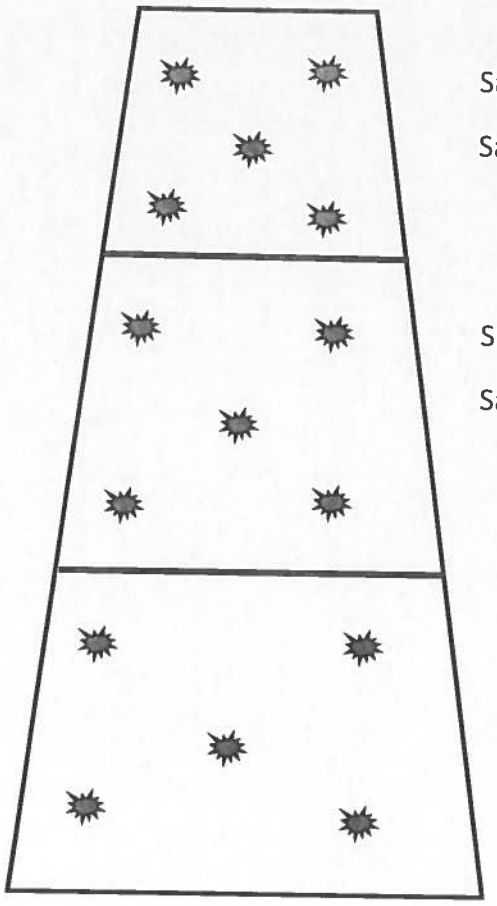






Sent from my iPhone

# Com #91 Spill Sampling Diagram



Sampling Area #1

Sample ID: Com 91 1

Sampling Area #2

Sample ID: Com 91 2

Sampling Area #3

Sample ID: Com 91 3

# National Flood Hazard Layer FIRMette

FEMA


## Legend

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

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

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

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

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

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

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

N

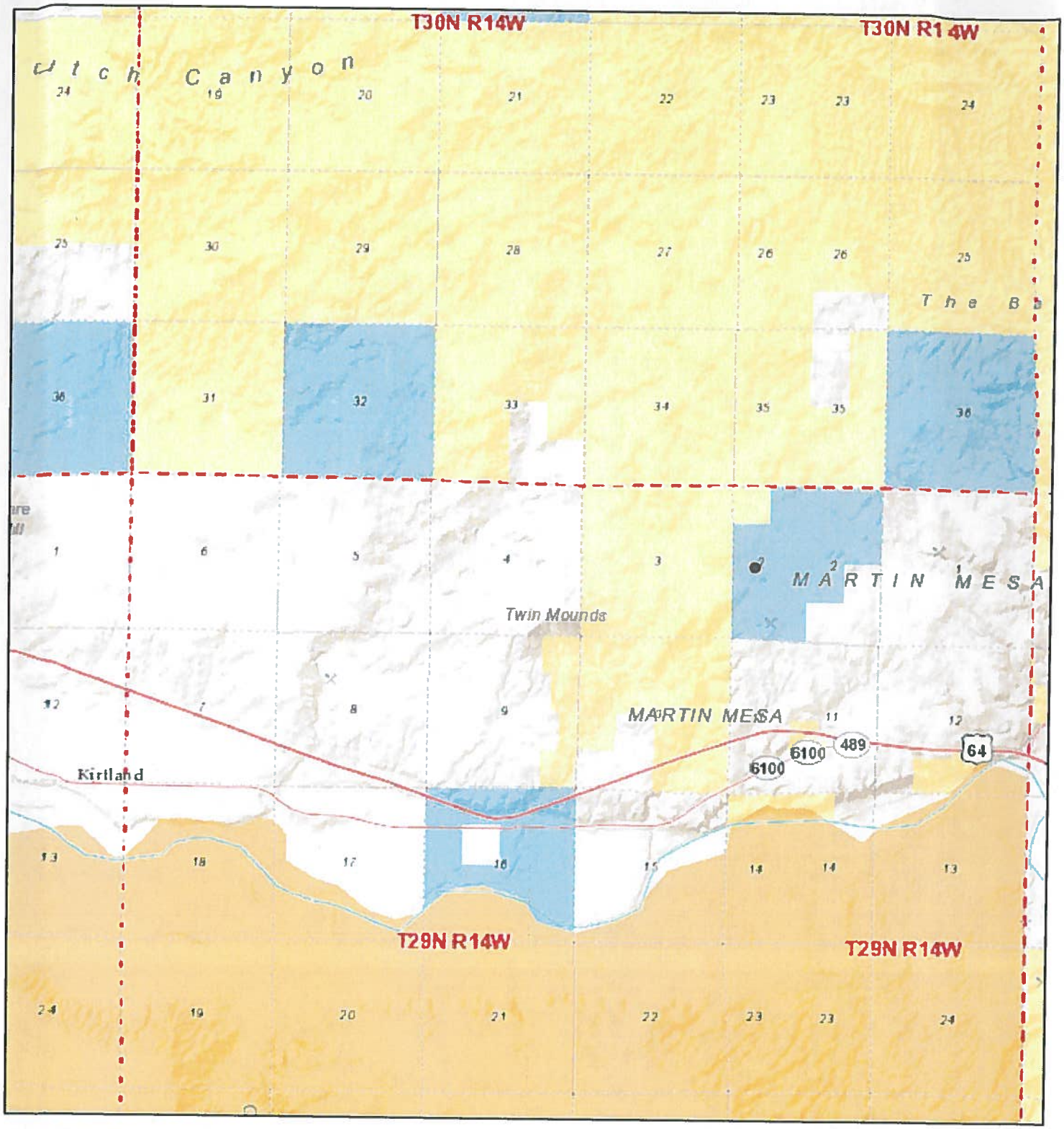
The pin displayed on the map is an approximat point selected by the user and does not represe an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 7/23/2020 at 3:58 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

# Active Mines in New Mexico




7/23/2020, 1:54:33 PM

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

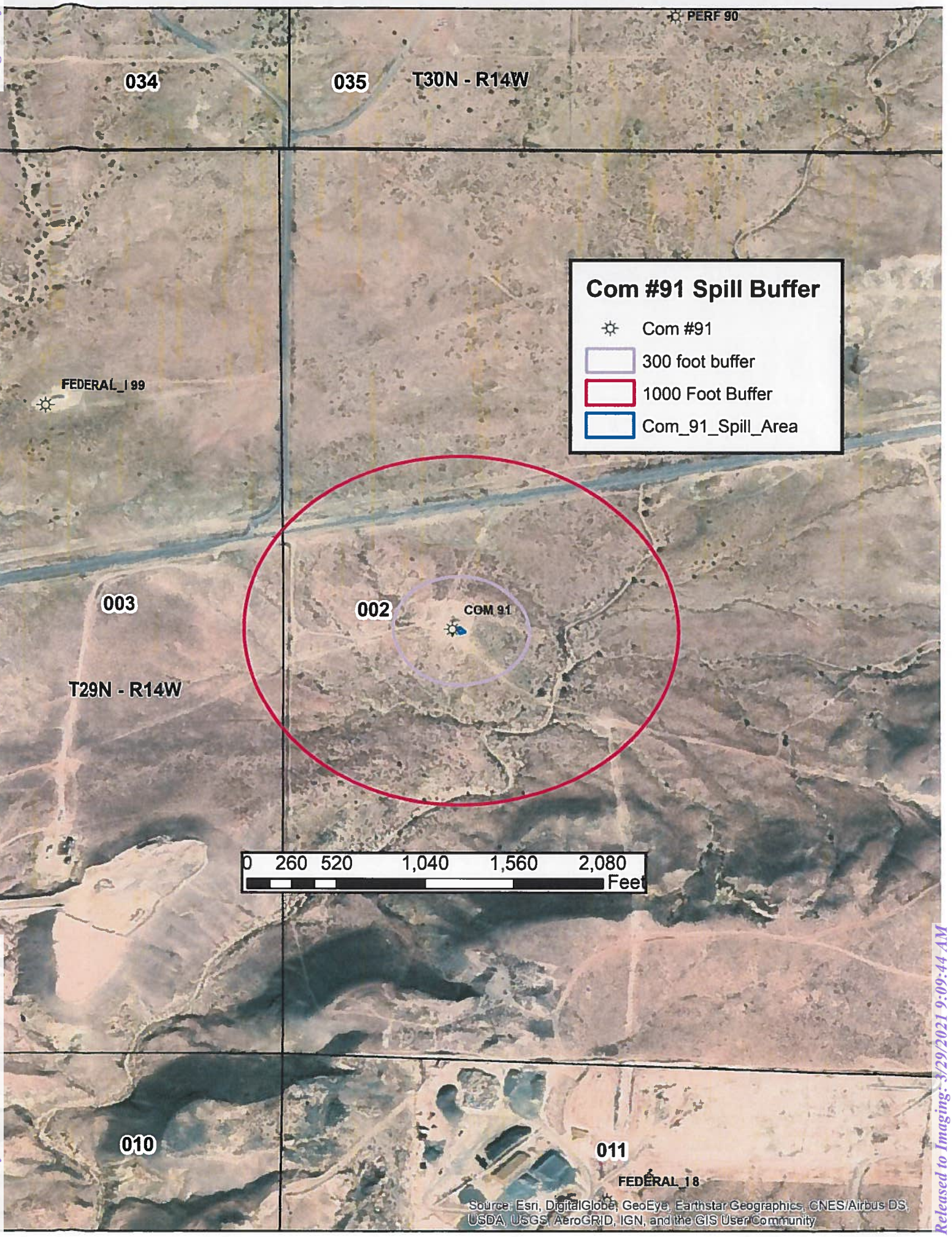
## Registered Mines

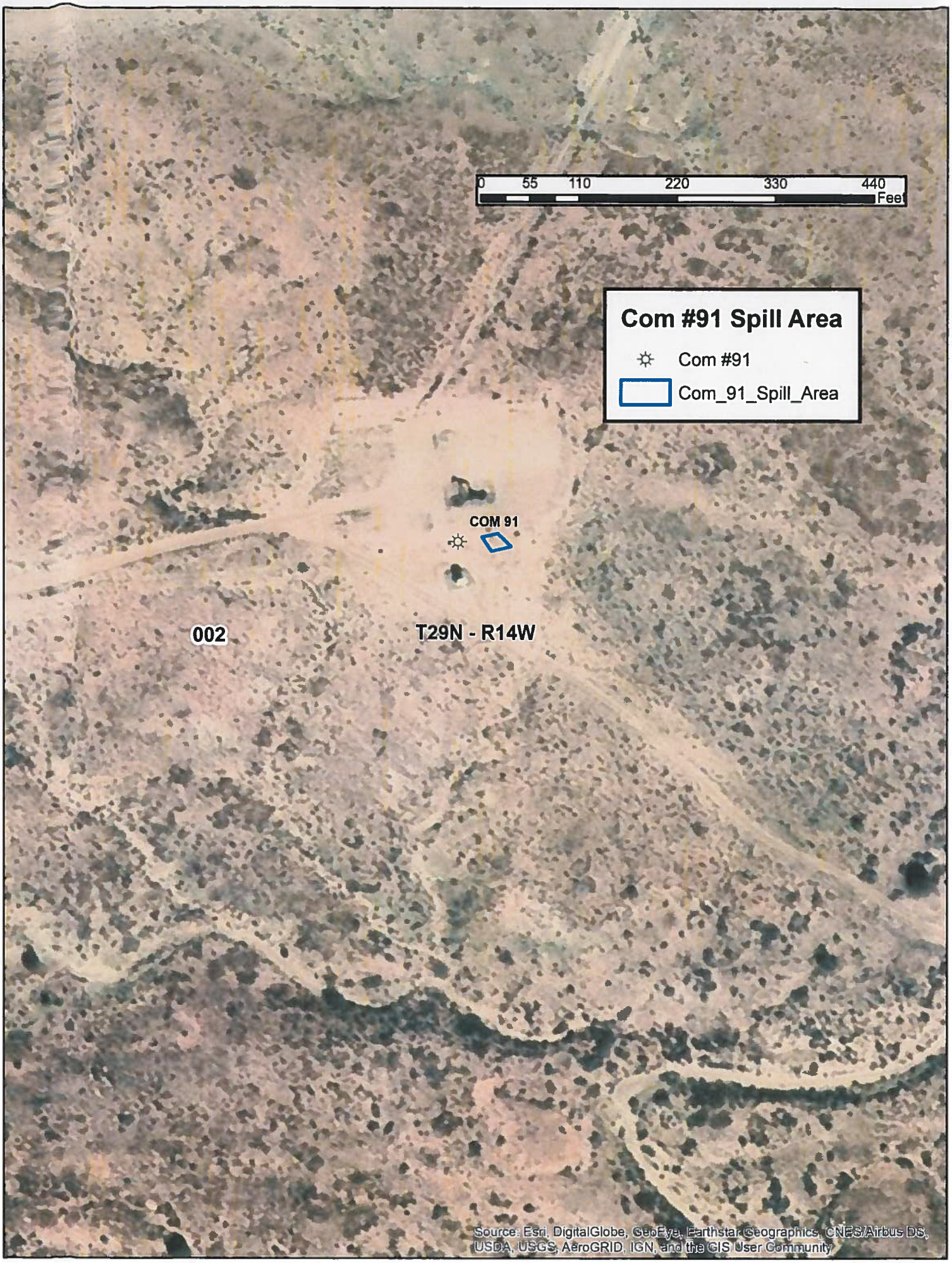
- Aggregate, Stone etc.
- Aggregate, Stone etc.

U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)





# New Mexico Office of the State Engineer
# Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number | POD Sub-Code | basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SJ 00080 | | SJM3 | SJ | 2 | 2 | 4 | 14 | 29N | 14W | 207796 | 4069451* | 60 | | |
| SJ 00081 | | SJM3 | SJ | 1 | 2 | 4 | 14 | 29N | 14W | 207596 | 4069451* | 60 | | |
| SJ 00082 | | SJM3 | SJ | 3 | 4 | 2 | 14 | 29N | 14W | 207603 | 4069649* | 60 | | |
| SJ 00083 | | SJM3 | SJ | 4 | 4 | 2 | 14 | 29N | 14W | 207803 | 4069649* | 60 | | |
| SJ 00084 | | SJM3 | SJ | 3 | 3 | 2 | 14 | 29N | 14W | 207185 | 4069653* | 60 | | |
| SJ 00085 | | SJM3 | SJ | 4 | 3 | 2 | 14 | 29N | 14W | 207385 | 4069653* | 60 | | |
| SJ 00086 | | SJM3 | SJ | 2 | 3 | 2 | 14 | 29N | 14W | 207385 | 4069853* | 60 | | |
| SJ 00087 | | SJM3 | SJ | 1 | 3 | 2 | 14 | 29N | 14W | 207185 | 4069853* | 60 | | |
| SJ 00130 EXPLORE | | SJM3 | SJ | 2 | 4 | 4 | 17 | 29N | 14W | 203010 | 4069210* | 40 | | |
| SJ 00130 X-2-EXPLOR | | SJM3 | SJ | 2 | 3 | 4 | 17 | 29N | 14W | 202608 | 4069223* | 40 | | |
| SJ 00130 X-EXPLORE | | SJM3 | SJ | 1 | 4 | 4 | 17 | 29N | 14W | 202810 | 4069210* | 40 | | |
| SJ 00226 | | SJM3 | SJ | 3 | 1 | 1 | 07 | 29N | 14W | 200124 | 4071962* | 100 | 50 | 50 |
| SJ 00376 | | SJM3 | SJ | 4 | 4 | 4 | 08 | 29N | 14W | 203070 | 4070625* | 80 | 50 | 30 |
| SJ 00417 | | SJM3 | SJ | 1 | 3 | 2 | 17 | 29N | 14W | 202439 | 4070029* | 38 | 7 | 31 |
| SJ 00418 | | SJM3 | SJ | 1 | 3 | 2 | 17 | 29N | 14W | 202439 | 4070029* | 35 | 7 | 28 |
| SJ 00451 | | SJM3 | SJ | 3 | 1 | 4 | 07 | 29N | 14W | 200881 | 4071114* | 39 | 24 | 15 |
| SJ 00788 | | SJM3 | SJ | | 4 | 4 | 08 | 29N | 14W | 202971 | 4070726* | 100 | 70 | 30 |
| SJ 00947 | | SJM3 | SJ | | | | 08 | 29N | 14W | 202369 | 4071369* | 370 | 275 | 95 |
| SJ 01034 | | SJM3 | SJ | 1 | 2 | 2 | 18 | 29N | 14W | 201249 | 4070480* | 28 | 16 | 12 |
| SJ 01259 | | SJM3 | SJ | | | 1 | 17 | 29N | 14W | 201937 | 4070156* | 31 | 3 | 28 |
| SJ 01407 | | SJM3 | SJ | 3 | 3 | 3 | 06 | 29N | 14W | 200141 | 4072370* | 70 | 52 | 18 |
| SJ 01568 | | SJM3 | SJ | | 1 | 1 | 07 | 29N | 14W | 200225 | 4072063* | 72 | 30 | 42 |
| SJ 01883 | | SJM3 | SJ | | 3 | 2 | 06 | 29N | 14W | 201056 | 4073263* | 75 | 30 | 45 |
| SJ 02036 | | SJM3 | SJ | | | 4 | 07 | 29N | 14W | 201166 | 4071008* | 62 | 15 | 47 |
| SJ 02055 | | SJM3 | SJ | | 1 | 1 | 05 | 29N | 14W | 201867 | 4073640* | 150 | 90 | 60 |
| SJ 02143 | | SJM3 | SJ | 4 | 2 | 1 | 17 | 29N | 14W | 202252 | 4070247* | 36 | 26 | 10 |

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number | POD Code | Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X | Y | Depth Well | Depth Water | Water Column |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SJ 02639 | | SJM3 | SJ | 4 | 3 | 3 | 07 | 29N | 14W | 200272 | 4070739* | 18 | 6 | 12 |
| SJ 02790 | | SJM3 | SJ | 4 | 2 | 2 | 18 | 29N | 14W | 201449 | 4070280* | 40 | | |
| SJ 02927 | | SJM3 | SJ | 2 | 3 | 2 | 06 | 29N | 14W | 201155 | 4073362* | 150 | | |
| SJ 02999 | | SJM3 | SJ | 1 | 4 | 1 | 17 | 29N | 14W | 202037 | 4070041* | 42 | 28 | 14 |
| SJ 03074 | | SJM3 | SJ | 1 | 3 | 1 | 09 | 29N | 14W | 203310 | 4071626* | 70 | | |
| SJ 03334 | | SJM3 | SJ | 4 | 4 | 4 | 07 | 29N | 14W | 201465 | 4070686* | 36 | 20 | 16 |
| SJ 03395 | | SJM3 | SJ | 1 | 2 | 2 | 18 | 29N | 14W | 201249 | 4070480* | 39 | 19 | 20 |
| SJ 03411 | | SJM3 | SJ | 4 | 1 | 3 | 06 | 29N | 14W | 200357 | 4072780* | 60 | | |
| SJ 03416 | | SJM3 | SJ | | 2 | 2 | 13 | 29N | 14W | 209348 | 4070088* | 60 | 10 | 50 |
| SJ 03478 | | SJM3 | SJ | 1 | 1 | 1 | 18 | 29N | 14W | 200056 | 4070538* | 30 | 15 | 15 |
| SJ 03538 | | SJM3 | SJ | 2 | 2 | 1 | 13 | 29N | 14W | 208641 | 4070225* | 20 | 4 | 16 |
| SJ 03594 | | SJM3 | SJ | 4 | 2 | 1 | 18 | 29N | 14W | 200647 | 4070320* | 36 | 25 | 11 |
| SJ 03644 | | SJM3 | SJ | | 2 | 2 | 18 | 29N | 14W | 201350 | 4070381* | 17 | 7 | 10 |
| SJ 03690 | O | | SJ | 2 | 3 | 2 | 17 | 29N | 14W | 202639 | 4070029* | 22 | 9 | 13 |
| SJ 03690 POD1 | | SJM3 | SJ | 2 | 3 | 2 | 17 | 29N | 14W | 202639 | 4070029* | 22 | 9 | 13 |
| SJ 03716 POD1 | | SJM3 | SJ | 3 | 2 | 2 | 18 | 29N | 14W | 201249 | 4070280* | 40 | 20 | 20 |
| SJ 03776 POD1 | | SJM3 | SJ | 3 | 1 | 1 | 13 | 29N | 14W | 208062 | 4070000 | 12 | 6 | 6 |
| SJ 03784 POD1 | | SJM3 | SJ | 4 | 3 | 4 | 12 | 29N | 14W | 208210 | 4070365 | 32 | 20 | 12 |
| SJ 03860 POD1 | | SJM3 | SJ | 2 | 2 | 3 | 16 | 29N | 14W | 203767 | 4069644 | 19 | 1 | 18 |
| SJ 03909 POD1 | | SJM3 | SJ | 4 | 1 | 1 | 13 | 29N | 14W | 207962 | 4070186 | 28 | 16 | 12 |
| SJ 03919 POD1 | | SJM3 | SJ | 4 | 2 | 3 | 17 | 29N | 14W | 202282 | 4069479 | 90 | 70 | 20 |
| SJ 04192 POD1 | | SJM3 | SJ | | 4 | 4 | 11 | 29N | 14W | 207754 | 4070631 | 650 | 250 | 400 |
| SJ 04250 POD1 | | SJM3 | SJ | 1 | 4 | 2 | 16 | 29N | 14W | 204402 | 4069983 | 30 | | |
| SJ 04275 POD1 | | SJAR | SJ | | 4 | 2 | 15 | 29N | 14W | 206018 | 4069942 | 30 | 18 | 12 |
| SJ 04290 POD1 | | SJ | SJ | | 2 | 3 | 06 | 29N | 14W | 200789 | 4073005 | 105 | 105 | 0 |

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

Average Depth to Water: **40 feet**

Minimum Depth: **1 feet**

Maximum Depth: **275 feet**

**Record Count:** 51

**Basin/County Search:**

**Basin:** San Juan

**PLSS Search:**

**Township:** 29N **Range:** 14W

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# Analytical Report

## Report Summary

Client: Dugan Production Corp.

Samples Received: 4/24/2020
Job Number: 06094-0177
Work Order: P004141
Project Name/Location: Dorsey & Com 91

Report Reviewed By: Walter Hinchman Date: 4/28/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

5796 Highway 64, Farmington, NM 87401
Ph (505) 632-0615 Fx (505) 632-1865
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| | | | |
|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|---|---|---|---|---|---|
| Com 91 1 | P004141-01A | Soil | 04/24/20 | 04/24/20 | Glass Jar, 4 oz. |
| Com 91 2 | P004141-02A | Soil | 04/24/20 | 04/24/20 | Glass Jar, 4 oz. |
| Com 91 3 | P004141-03A | Soil | 04/24/20 | 04/24/20 | Glass Jar, 4 oz. |
| Dorsey 90 1 | P004141-04A | Soil | 04/24/20 | 04/24/20 | Glass Jar, 4 oz. |
| Dorsey 90 2 | P004141-05A | Soil | 04/24/20 | 04/24/20 | Glass Jar, 4 oz. |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Com 91 1
**P004141-01 (Solid)**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *105 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8021B* | |
| **Nonhalogenated Organics by 8015 - DRO/ORO** | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| *Surrogate: n-Nonane* | | *73.6 %* | | *50-200* | *2017054* | *04/25/20* | *04/26/20* | *EPA 8015D* | |
| **Nonhalogenated Organics by 8015 - GRO** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8015D | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.8 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8015D* | |
| **Anions by 300.0/9056A** | | | | | | | | | |
| Chloride | 302 | 20.0 | mg/kg | 1 | 2017049 | 04/25/20 | 04/25/20 | EPA 300.0/9056A | |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Com 91 2
## P004141-02 (Solid)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *105 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8021B* | |
| **Nonhalogenated Organics by 8015 - DRO/ORO** | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| *Surrogate: n-Nonane* | | *72.2 %* | | *50-200* | *2017054* | *04/25/20* | *04/26/20* | *EPA 8015D* | |
| **Nonhalogenated Organics by 8015 - GRO** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8015D | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.1 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8015D* | |
| **Anions by 300.0/9056A** | | | | | | | | | |
| Chloride | **311** | 20.0 | mg/kg | 1 | 2017049 | 04/25/20 | 04/25/20 | EPA 300.0/9056A | |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Com 91 3
## P004141-03 (Solid)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *104 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8021B* | |
| **Nonhalogenated Organics by 8015 - DRO/ORO** | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| *Surrogate: n-Nonane* | | *80.8 %* | | *50-200* | *2017054* | *04/25/20* | *04/26/20* | *EPA 8015D* | |
| **Nonhalogenated Organics by 8015 - GRO** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8015D | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *91.5 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8015D* | |
| **Anions by 300.0/9056A** | | | | | | | | | |
| Chloride | **343** | 20.0 | mg/kg | 1 | 2017049 | 04/25/20 | 04/25/20 | EPA 300.0/9056A | |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

**Dorsey 90 1**
**P004141-04 (Solid)**

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *104 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8021B* | |
| **Nonhalogenated Organics by 8015 - DRO/ORO** | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| *Surrogate: n-Nonane* | | *74.3 %* | | *50-200* | *2017054* | *04/25/20* | *04/26/20* | *EPA 8015D* | |
| **Nonhalogenated Organics by 8015 - GRO** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8015D | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *93.1 %* | | *50-150* | *2017055* | *04/25/20* | *04/25/20* | *EPA 8015D* | |
| **Anions by 300.0/9056A** | | | | | | | | | |
| Chloride | 267 | 20.0 | mg/kg | 1 | 2017049 | 04/25/20 | 04/25/20 | EPA 300.0/9056A | |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Dorsey 90 2
## P004141-05 (Solid)

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **Volatile Organics by EPA 8021** | | | | | | | | | |
| Benzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Toluene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Ethylbenzene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| p,m-Xylene | ND | 0.0500 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| o-Xylene | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| Total Xylenes | ND | 0.0250 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8021B | |
| *Surrogate: 4-Bromochlorobenzene-PID* | | *105 %* | *50-150* | | *2017055* | *04/25/20* | *04/25/20* | *EPA 8021B* | |
| **Nonhalogenated Organics by 8015 - DRO/ORO** | | | | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| Oil Range Organics (C28-C40) | ND | 50.0 | mg/kg | 1 | 2017054 | 04/25/20 | 04/26/20 | EPA 8015D | |
| *Surrogate: n-Nonane* | | *81.9 %* | *50-200* | | *2017054* | *04/25/20* | *04/26/20* | *EPA 8015D* | |
| **Nonhalogenated Organics by 8015 - GRO** | | | | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | 1 | 2017055 | 04/25/20 | 04/25/20 | EPA 8015D | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | | *92.2 %* | *50-150* | | *2017055* | *04/25/20* | *04/25/20* | *EPA 8015D* | |
| **Anions by 300.0/9056A** | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg | 1 | 2017049 | 04/25/20 | 04/25/20 | EPA 300.0/9056A | |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | **Reported:** |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Volatile Organics by EPA 8021 - Quality Control

## Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2017055 - Purge and Trap EPA 5030A** | | | | | | | | | | |
| **Blank (2017055-BLK1)** | | | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Benzene | ND | 0.0250 | mg/kg | | | | | | | |
| Toluene | ND | 0.0250 | " | | | | | | | |
| Ethylbenzene | ND | 0.0250 | " | | | | | | | |
| p,m-Xylene | ND | 0.0500 | " | | | | | | | |
| o-Xylene | ND | 0.0250 | " | | | | | | | |
| Total Xylenes | ND | 0.0250 | " | | | | | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.28* | | " | *8.00* | | *104* | *50-150* | | | |
| **LCS (2017055-BS1)** | | | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Benzene | 4.39 | 0.0250 | mg/kg | 5.00 | | 87.7 | 70-130 | | | |
| Toluene | 4.38 | 0.0250 | " | 5.00 | | 87.5 | 70-130 | | | |
| Ethylbenzene | 4.36 | 0.0250 | " | 5.00 | | 87.2 | 70-130 | | | |
| p,m-Xylene | 8.74 | 0.0500 | " | 10.0 | | 87.4 | 70-130 | | | |
| o-Xylene | 4.40 | 0.0250 | " | 5.00 | | 88.0 | 70-130 | | | |
| Total Xylenes | 13.1 | 0.0250 | " | 15.0 | | 87.6 | 0-200 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.21* | | " | *8.00* | | *103* | *50-150* | | | |
| **Matrix Spike (2017055-MS1)** | | **Source: P004132-01** | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Benzene | 3.81 | 0.0250 | mg/kg | 5.00 | ND | 76.2 | 54.3-133 | | | |
| Toluene | 3.79 | 0.0250 | " | 5.00 | ND | 75.9 | 61.4-130 | | | |
| Ethylbenzene | 3.78 | 0.0250 | " | 5.00 | ND | 75.6 | 61.4-133 | | | |
| p,m-Xylene | 7.57 | 0.0500 | " | 10.0 | ND | 75.7 | 63.3-131 | | | |
| o-Xylene | 3.82 | 0.0250 | " | 5.00 | ND | 76.5 | 63.3-131 | | | |
| Total Xylenes | 11.4 | 0.0250 | " | 15.0 | ND | 76.0 | 0-200 | | | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.46* | | " | *8.00* | | *106* | *50-150* | | | |
| **Matrix Spike Dup (2017055-MSD1)** | | **Source: P004132-01** | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Benzene | 4.48 | 0.0250 | mg/kg | 5.00 | ND | 89.6 | 54.3-133 | 16.1 | 20 | |
| Toluene | 4.45 | 0.0250 | " | 5.00 | ND | 89.1 | 61.4-130 | 16.0 | 20 | |
| Ethylbenzene | 4.44 | 0.0250 | " | 5.00 | ND | 88.9 | 61.4-133 | 16.2 | 20 | |
| p,m-Xylene | 8.91 | 0.0500 | " | 10.0 | ND | 89.1 | 63.3-131 | 16.2 | 20 | |
| o-Xylene | 4.50 | 0.0250 | " | 5.00 | ND | 90.0 | 63.3-131 | 16.3 | 20 | |
| Total Xylenes | 13.4 | 0.0250 | " | 15.0 | ND | 89.4 | 0-200 | 16.2 | 200 | |
| *Surrogate: 4-Bromochlorobenzene-PID* | *8.49* | | " | *8.00* | | *106* | *50-150* | | | |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

## Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2017054 - DRO Extraction EPA 3570** | | | | | | | | | | |
| **Blank (2017054-BLK1)** | | | | Prepared: 04/25/20 0 Analyzed: 04/25/20 1 | | | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | mg/kg | | | | | | | |
| Oil Range Organics (C28-C40) | ND | 50.0 | " | | | | | | | |
| *Surrogate: n-Nonane* | *55.0* | | " | *50.0* | | *110* | *50-200* | | | |
| **LCS (2017054-BS1)** | | | | Prepared: 04/25/20 0 Analyzed: 04/25/20 1 | | | | | | |
| Diesel Range Organics (C10-C28) | 471 | 25.0 | mg/kg | 500 | | 94.2 | 38-132 | | | |
| *Surrogate: n-Nonane* | *49.6* | | " | *50.0* | | *99.1* | *50-200* | | | |
| **Matrix Spike (2017054-MS1)** | **Source: P004138-01** | | | Prepared: 04/25/20 0 Analyzed: 04/25/20 2 | | | | | | |
| Diesel Range Organics (C10-C28) | 509 | 25.0 | mg/kg | 500 | ND | 102 | 38-132 | | | |
| *Surrogate: n-Nonane* | *49.9* | | " | *50.0* | | *99.9* | *50-200* | | | |
| **Matrix Spike Dup (2017054-MSD1)** | **Source: P004138-01** | | | Prepared: 04/25/20 0 Analyzed: 04/25/20 2 | | | | | | |
| Diesel Range Organics (C10-C28) | 521 | 25.0 | mg/kg | 500 | ND | 104 | 38-132 | 2.15 | 20 | |
| *Surrogate: n-Nonane* | *50.1* | | " | *50.0* | | *100* | *50-200* | | | |

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|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Nonhalogenated Organics by 8015 - GRO - Quality Control

## Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2017055 - Purge and Trap EPA 5030A** | | | | | | | | | | |
| **Blank (2017055-BLK1)** | | | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | mg/kg | | | | | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.48* | | " | *8.00* | | *93.6* | *50-150* | | | |
| **LCS (2017055-BS2)** | | | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Gasoline Range Organics (C6-C10) | 47.2 | 20.0 | mg/kg | 50.0 | | 94.4 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.49* | | " | *8.00* | | *93.7* | *50-150* | | | |
| **Matrix Spike (2017055-MS2)** | | **Source: P004132-01** | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Gasoline Range Organics (C6-C10) | 41.8 | 20.0 | mg/kg | 50.0 | ND | 83.6 | 70-130 | | | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.55* | | " | *8.00* | | *94.3* | *50-150* | | | |
| **Matrix Spike Dup (2017055-MSD2)** | | **Source: P004132-01** | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Gasoline Range Organics (C6-C10) | 46.3 | 20.0 | mg/kg | 50.0 | ND | 92.7 | 70-130 | 10.3 | 20 | |
| *Surrogate: 1-Chloro-4-fluorobenzene-FID* | *7.42* | | " | *8.00* | | *92.7* | *50-150* | | | |

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| | | | |
|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | Reported: |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Anions by 300.0/9056A - Quality Control

## Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2017049 - Anion Extraction EPA 300.0/9056A** | | | | | | | | | | |
| **Blank (2017049-BLK1)** | | | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Chloride | ND | 20.0 | mg/kg | | | | | | | |
| **LCS (2017049-BS1)** | | | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Chloride | 255 | 20.0 | mg/kg | 250 | | 102 | 90-110 | | | |
| **Matrix Spike (2017049-MS1)** | | Source: P004138-01 | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Chloride | 2240 | 100 | mg/kg | 250 | 1870 | 147 | 80-120 | | | M2 |
| **Matrix Spike Dup (2017049-MSD1)** | | Source: P004138-01 | | Prepared & Analyzed: 04/25/20 1 | | | | | | |
| Chloride | 2230 | 100 | mg/kg | 250 | 1870 | 143 | 80-120 | 0.452 | 20 | M2 |

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

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| | | | |
|---|---|---|---|
| Dugan Production Corp. | Project Name: | Dorsey & Com 91 | |
| PO Box 420 | Project Number: | 06094-0177 | **Reported:** |
| Farmington NM, 87499 | Project Manager: | Kevin Smaka | 04/28/20 08:29 |

## Notes and Definitions

| | |
|---|---|
| M2 | Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| NR | Not Reported |
| RPD | Relative Percent Difference |
| ** | Methods marked with ** are non-accredited methods. |

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information

Chain of Custody

Page 1 of 1

| | |
|---|---|
| Client: | Dugan |
| Project: | Dorsey & com 91 |
| Project Manager: | Kevin Smaka |
| Address: | 709 E. Murray Dr |
| City, State, Zip | Farmington, NM 87401 |
| Phone: | 505-486-6201 |
| Email: | Kevin.Smaka@dugenproduction.com |
| Report due by: | 4-30-20 |

**Bill To**

| | |
|---|---|
| Attention: | |
| Address: | |
| City, State, Zip | |
| Phone: | |
| Email: | |

**Lab Use Only**

Lab WO# P004141 Job Number 06094-0177

**TAT**: 1D — 3D X

**EPA Program**: RCRA — CWA — SDWA

**State**: NM X — CO — UT — AZ — TX — OK

**Analysis and Method**

| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:05 | 4/24 | S | 81 | com 91 1 | 1 | X | X | X | | | X | |
| " | " | " | 1 | com 91 2 | 2 | X | X | X | | | X | |
| " | " | " | 1 | com 91 3 | 3 | X | X | X | | | X | |
| 12:00 | 4/24 | S | 1 | Dorsey 90 1 | 4 | X | X | X | | | X | |
| 12:02 | 4/24 | S | 1 | Dorsey 90 2 | 5 | X | X | X | | | X | |

**Additional Instructions:**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Kevin Smaka

| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
|---|---|---|---|---|---|
| Kevin Smaka | 4-24 | 1:37 | Raina Lopez | 4/24/20 | 13:37 |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |
| Relinquished by: (Signature) | Date | Time | Received by: (Signature) | Date | Time |

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Lab Use Only

Received on ice: (Y) N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other ____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com

labadmin@envirotech-inc.com

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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 9402

## CONDITIONS OF APPROVAL

| Operator: | | | OGRID: | Action Number: | Action Type: |
|---|---|---|---|---|---|
| DUGAN PRODUCTION CORP | 709 E Murray Drive | Farmington, NM87499 | 6515 | 9402 | C-141 |

| OCD Reviewer | Condition |
|---|---|
| csmith | None |