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-144
Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

BGT 1

Type of action:
- ☐ Below grade tank registration
- ☐ Permit of a pit or proposed alternative method
- ☒ Closure of a pit, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit/or registration
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.

1.
Operator: Dugan Production Corp. OGRID #: 006515
Address: PO Box 420, Farmington, NM 87499-0420
Facility or well name: Farming D Com #1R
API Number: 30-045-25396 OCD Permit Number:
U/L or Qtr/Qtr K Section 2 Township 27N Range 9W County: San Juan
Center of Proposed Design: Latitude 36.6015549 Longitude -107.7597046 NAD83
Surface Owner: ☐ Federal ☒ State ☐ Private ☐ Tribal Trust or Indian Allotment

2.
☐ **Pit:** Subsection F, G or J of 19.15.17.11 NMAC

* Operator Closed BGT without Closure plan Approval.

Temporary: ☐ Drilling ☐ Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A ☐ Multi-Well Fluid Management Low Chloride Drilling Fluid ☐ yes ☐ no
☐ Lined ☐ Unlined Liner type: Thickness _____mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other _____
☐ String-Reinforced
Liner Seams: ☐ Welded ☐ Factory ☐ Other _____ Volume: _____bbl Dimensions: L_____ x W_____ x D_____

3.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC
Volume: _____bbl Type of fluid: _____
Tank Construction material: _____
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other _____
Liner type: Thickness _____mil ☐ HDPE ☐ PVC ☐ Other _____

4.
☐ **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

5.
Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*
☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*
☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet
☐ Alternate. Please specify_____

6.
Netting: Subsection E of 19.15.17.11 NMAC *(Applies to permanent pits and permanent open top tanks)*

☐ Screen ☐ Netting ☐ Other_____

☐ Monthly inspections (If netting or screening is not physically feasible)

7.
Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☐ Signed in compliance with 19.15.16.8 NMAC

8.
Variances and Exceptions:
Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☐ Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

9.
Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. **Siting criteria does not apply to drying pads or above-grade tanks.**

General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank. - ☐ NM Office of the State Engineer - iWATERS database search; ☐ USGS; ☐ Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit . NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. **(Does not apply to below grade tanks)** - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. **(Does not apply to below grade tanks)** - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. **(Does not apply to below grade tanks)** - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. **(Does not apply to below grade tanks)** - FEMA map	☐ Yes ☐ No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.) - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
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, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application; - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

10.

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

11.

Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
☐ A List of wells with approved application for permit to drill associated with the pit.
☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Hydrogeologic Data - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Previously Approved Design (attach copy of design) API Number: _____ or Permit Number: _____

12.
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Climatological Factors Assessment
- ☐ Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Quality Control/Quality Assurance Construction and Installation Plan
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Nuisance or Hazardous Odors, including H_2S, Prevention Plan
- ☐ Emergency Response Plan
- ☐ Oil Field Waste Stream Characterization
- ☐ Monitoring and Inspection Plan
- ☐ Erosion Control Plan
- ☐ Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC

13.
Proposed Closure: 19.15.17.13 NMAC
Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.

Type: ☐ Drilling ☐ Workover ☐ Emergency ☐ Cavitation ☐ P&A ☐ Permanent Pit ☐ Below-grade Tank ☐ Multi-well Fluid Management Pit ☐ Alternative

Proposed Closure Method:
- ☐ Waste Excavation and Removal
- ☐ Waste Removal (Closed-loop systems only)
- ☐ On-site Closure Method (Only for temporary pits and closed-loop systems)
  - ☐ In-place Burial ☐ On-site Trench Burial
- ☐ Alternative Closure Method

14.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

15.
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC
Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

16.
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC
- ☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.11 NMAC
- ☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)
- ☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

17.
Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): _____ Title: _____

Signature: _____ Date: _____

e-mail address: _____ Telephone: _____

18.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure ~~Plan (only)~~ ☐ OCD Conditions (see attachment)

OCD Representative Signature: _____ **Approval Date:** 7/22/2020

Title: Environmental Specialist **OCD Permit Number:** BGT 1

19.
Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☒ **Closure Completion Date:** July 15, 2020

20.
Closure Method:

☒ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)
☐ If different from approved plan, please explain.

Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Proof of Closure Notice (surface owner and division)
- ☐ Proof of Deed Notice (required for on-site closure for private land only)
- ☐ Plot Plan (for on-site closures and temporary pits)
- ☒ Confirmation Sampling Analytical Results (if applicable)
- ☐ Waste Material Sampling Analytical Results (required for on-site closure)
- ☒ Disposal Facility Name and Permit Number
- ☒ Soil Backfilling and Cover Installation
- ☒ Re-vegetation Application Rates and Seeding Technique
- ☒ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude _____ Longitude _____ NAD: ☐1927 ☐ 1983

22.
Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Kevin Smaka Title: Regulatory Engineer

Signature: Date: July 16, 2020

e-mail address: kevin.smaka@duganproduction.com Telephone: 505-325-1821 x1049

From: Smith, Cory, EMNRD
To: "Kevin Smaka"
Cc: Powell, Brandon, EMNRD
Subject: RE: Farming D #1R Closure
Date: Wednesday, July 22, 2020 11:36:00 AM
Importance: High

Kevin,

Please remember that documents that are not signed, stamped registered(C-144), or otherwise noted by the OCD are not approved documents. Please also keep in mind that most if not all approved documents are located on OCD online imagining system.

Please be mindful of the requirements to have an approved closure plan prior to closure in the future or Dugan may be subject to enforcement and compliance per 19.15.5 NMAC

Thanks,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

-----Original Message-----
From: Kevin Smaka <Kevin.Smaka@duganproduction.com>
Sent: Wednesday, July 22, 2020 10:59 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: [EXT] Farming D #1R Closure

Hey Cory,

While in the course of making preparations to close the BGT located at the Farming D #1R, I checked Dugan's records and found the attached BGT Registration and the accompanying closure plan. I failed to verify that the OCD had a copy of the same document on file prior to closing the pit.

Dugan followed all of the sampling, remediation and closure requirements but failed to verify the closure plan was in place.
We hope this does complicate or delay the approval of the C-144 for that well.

Kevin

-----Original Message-----
From: DuganScans@duganproduction.com [mailto:DuganScans@duganproduction.com]
Sent: Tuesday, July 21, 2020 10:21 AM
To: Kevin Smaka <Kevin.Smaka@duganproduction.com>
Subject: Scanned Production Accounting Department

Please open the attached document. It was scanned and sent to you using a Xerox Multifunction Printer.

Attachment File Type: pdf, Multi-Page

From: Kevin Smaka
To: Smith, Cory, EMNRD
Subject: [EXT] Farming D #1R Closure
Date: Wednesday, July 22, 2020 10:59:52 AM
Attachments: Scanned from a Xerox Multifunction Printer.pdf

Hey Cory,

While in the course of making preparations to close the BGT located at the Farming D #1R, I checked Dugan's records and found the attached BGT Registration and the accompanying closure plan. I failed to verify that the OCD had a copy of the same document on file prior to closing the pit.

Dugan followed all of the sampling, remediation and closure requirements but failed to verify the closure plan was in place.
We hope this does complicate or delay the approval of the C-144 for that well.

Kevin

-----Original Message-----
From: DuganScans@duganproduction.com [mailto:DuganScans@duganproduction.com]
Sent: Tuesday, July 21, 2020 10:21 AM
To: Kevin Smaka <Kevin.Smaka@duganproduction.com>
Subject: Scanned Production Accounting Department

Please open the attached document. It was scanned and sent to you using a Xerox Multifunction Printer.

Attachment File Type: pdf, Multi-Page

Multifunction Printer Location: Dugan Main
Device Name: Production Accounting

Dugan Production Corp

Farming D #1R

API # 30-045-25396

K-02-27N-09W 1725 FSL 1850 FWL

BGT Closure Report

Dugan Production Corp. has plugged and abandoned the Farming D #1R well. As part of reclamation and as directed by the NMAC Dugan has also closed the BGT located at the plugged wells pad.

In order to be compliant with NMOCD rules Dugan took the following actions to close the BGT:

1. Verified that an existing, approved closure plan was on file with the Division prior to commencing work.
2. On July 3rd, 2019 notified the division and the State Land Office through an email that Dugan planned to pull the BGT, collect samples and analyze the dirt to see if further remediation was needed. Copies of those emails are included with this report.
3. On July 8, 2019, the BGT was removed, soils were sampled and taken to Envirotech for analysis. The sampling results indicate no contamination occurred. The results are included with this report.
4. Since no soil was contaminated no waste was hauled to a land farming facility. The BGT liner was hauled to the Crouch Mesa Waste Management facility for disposal. The BGT was hauled to Dugan's yard for refurbishment and repurposing.
5. On August 5th 2019, Dugan personnel filled the BGT with soil stock piled on location when the BGT cellar was dug. No outside or dissimilar soils were used to backfill the hole.
6. On July 15, 2020 the BGT was seeded with a broadcaster and raked into the ground. Pictures of those reclamation efforts are included as part of this report.
   Since no prescribed seed mix was included as part of the BGT closure plan or part of the well APD Dugan elected to use a seed mix prescribed by the BLM that will fit in well with surrounding flora. A copy of that seed mix is included with this report. The names highlighted in pink were included in the seed mix. Since the seed was broadcast as opposed to drilled the application rates were doubled. Dugan will notify OCD when revegetation is successful.

Kevin Smaka

From: Kevin Smaka
Sent: Wednesday, July 3, 2019 3:37 PM
To: Smith, Cory, EMNRD; Creeden, Eric
Cc: Mike Sandoval; Bill Wilson; Bill Armenta
Subject: BGT Closure Sampling

Gentlemen,

You are being notified of Dugan's intentions to remove, sample and close 2 below grade tanks.

The first is located at the Ross Federal #1, API # 20-045-22484. (Federal lease)
The Second is located at the Farming D #1 R, API # 30-045-25396. (State Lease)

It is our intention to start Monday, 7/8/19, @ 10 AM at the Ross Federal. After completing sampling activities at the Ross we will move to the Farming D to sample that BGT.

Our office is having difficulty reaching the NMSLO in Farmington via e-mail so a letter will be mailed as well.

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

Kevin Smaka

From: Kevin Smaka
Sent: Wednesday, July 3, 2019 4:03 PM
To: djohnson@slo.state.nm.us
Subject: BGT Sampling

Gentlemen,

You are being notified of Dugan's intentions to remove, sample and close 2 below grade tanks.

The first is located at the Ross Federal #1, API # 20-045-22484. (Federal lease)
The Second is located at the Farming D #1 R, API # 30-045-25396. (State Lease)

It is our intention to start Monday, 7/8/19, @ 10 AM at the Ross Federal. After completing sampling activities at the Ross we will move to the Farming D to sample that BGT.

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

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: Dugan Production Corp.

Samples Received: 7/8/2019
Job Number: 06094-0177
Work Order: P907018
Project Name/Location: Farming D #1 R

Report Reviewed By: Walter Hinchman Date: 7/10/19

Walter Hinchman, Laboratory Director

NELAP ACCREDITED 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.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865
24 Hour Emergency Response Phone (800) 362-1879
envirotech-inc.com
Labadmin@envirotech-inc.com

envirotech
Analytical Laboratory

Dugan Production Corp	Project Name	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	07/10/19 14:23

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Farming D #1R North Wall 1	P907018-01A	Solid	07/08/19	07/08/19	Glass Jar, 4 oz.
Farming D #1R East Wall 2	P907018-02A	Solid	07/08/19	07/08/19	Glass Jar, 4 oz.
Farming D #1R South Wall 3	P907018-03A	Solid	07/08/19	07/08/19	Glass Jar, 4 oz.
Farming D #1R West Wall 4	P907018-04A	Solid	07/08/19	07/08/19	Glass Jar, 4 oz.
Farming D #1R Bottom 5	P907018-05A	Solid	07/08/19	07/08/19	Glass Jar, 4 oz.

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Dugan Production Corp.	Project Name:	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	07/10/19 14 23

Farming D #1R North Wall 1
P907018-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*97.1 %*	*50-150*		*1928011*	*07/09/19*	*07/09/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Surrogate: n-Nonane		*105 %*	*50-200*		*1928016*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*	*50-150*		*1928011*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1928013	07/09/19	07/09/19	EPA 300.0/9056A	

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Dugan Production Corp	Project Name:	Farming D #1 R	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	07/10/19 14 23

Farming D #1R East Wall 2
P907018-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Ethylbenzene	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
p,m-Xylene	ND	0 0500	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
o-Xylene	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Total Xylenes	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Surrogate: n-Nonane		*99.9 %*		*50-200*	*1928016*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20 0	mg/kg	1	1928013	07/09/19	07/09/19	EPA 300.0/9056A	

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Dugan Production Corp	Project Name	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	07/10/19 14 23

Farming D #1R South Wall 3
P907018-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Toluene	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Ethylbenzene	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
p,m-Xylene	ND	0 0500	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
o-Xylene	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Total Xylenes	ND	0 0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Surrogate 4-Bromochlorobenzene PID		*97 0 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25 0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50 0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Surrogate n-Nonane		*104 %*		*50-200*	*1928016*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20 0	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		*101 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20 0	mg/kg	1	1928013	07/09/19	07/09/19	EPA 300 0/9056A	

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Dugan Production Corp.	Project Name:	Farming D #1 R	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	07/10/19 14:23

Farming D #1R West Wall 4
P907018-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*97.6 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Surrogate: n-Nonane		*102 %*		*50-200*	*1928016*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*102 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1928013	07/09/19	07/09/19	EPA 300.0/9056A	

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Dugan Production Corp	Project Name:	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	07/10/19 14 23

Farming D #1R Bottom S
P907018-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8021B	
Surrogate 4-Bromochlorobenzene-PID		*97.9 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928016	07/09/19	07/09/19	EPA 8015D	
Surrogate n-Nonane		*105 %*		*50-200*	*1928016*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20 0	mg/kg	1	1928011	07/09/19	07/09/19	EPA 8015D	
Surrogate 1-Chloro-4-fluorobenzene-FID		*102 %*		*50-150*	*1928011*	*07/09/19*	*07/09/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20 0	mg/kg	1	1928013	07/09/19	07/09/19	EPA 300.0/9056A	

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Dugan Production Corp	Project Name	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	07/10/19 14 23

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 1928011 - Purge and Trap EPA 5030A										
Blank (1928011-BLK1)				Prepared 07/09/19 0 Analyzed 07/09/19 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	7.71		"	8.00		96.3	50-150			
LCS (1928011-BS1)				Prepared 07/09/19 0 Analyzed 07/09/19 1						
Benzene	4.30	0.0250	mg/kg	5.00		86.0	70-130			
Toluene	4.66	0.0250	"	5.00		93.2	70-130			
Ethylbenzene	4.63	0.0250	"	5.00		92.7	70-130			
p,m-Xylene	9.53	0.0500	"	10.0		95.3	70-130			
o-Xylene	4.61	0.0250	"	5.00		92.2	70-130			
Total Xylenes	14.1	0.0250	"	15.0		94.3	70-130			
Surrogate 4-Bromochlorobenzene-PID	7.72		"	8.00		96.5	50-150			
Matrix Spike (1928011-MS1)	Source: P907017-01			Prepared 07/09/19 0 Analyzed 07/09/19 1						
Benzene	4.29	0.0250	mg/kg	5.00	ND	85.8	54.3-133			
Toluene	4.66	0.0250	"	5.00	ND	93.2	61.4-130			
Ethylbenzene	4.63	0.0250	"	5.00	ND	92.6	61.4-133			
p,m-Xylene	9.54	0.0500	"	10.0	ND	95.4	63.3-131			
o-Xylene	4.61	0.0250	"	5.00	ND	92.3	63.3-131			
Total Xylenes	14.1	0.0250	"	15.0	ND	94.3	63.3-131			
Surrogate 4-Bromochlorobenzene-PID	7.72		"	8.00		96.5	50-150			
Matrix Spike Dup (1928011-MSD1)	Source: P907017-01			Prepared 07/09/19 0 Analyzed 07/09/19 1						
Benzene	4.42	0.0250	mg/kg	5.00	ND	88.4	54.3-133	2.99	20	
Toluene	4.80	0.0250	"	5.00	ND	96.0	61.4-130	2.91	20	
Ethylbenzene	4.77	0.0250	"	5.00	ND	95.4	61.4-133	3.00	20	
p,m-Xylene	9.82	0.0500	"	10.0	ND	98.2	63.3-131	2.99	20	
o-Xylene	4.76	0.0250	"	5.00	ND	95.2	63.3-131	3.09	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.2	63.3-131	3.02	20	
Surrogate: 4-Bromochlorobenzene-PID	7.77		"	8.00		97.1	50-150			

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Dugan Production Corp	Project Name	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	07/10/19 14 23

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 1928016 - DRO Extraction EPA 3570										
Blank (1928016-BLK1)				Prepared & Analyzed 07/09/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*48.9*		"	*50.0*		*97.8*	*50-200*			
LCS (1928016-BS1)				Prepared & Analyzed 07/09/19 1						
Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500		96.4	38-132			
Surrogate: n-Nonane	*52.1*		"	*50.0*		*104*	*50-200*			
Matrix Spike (1928016-MS1)	Source: P907006-01			Prepared & Analyzed 07/09/19 1						
Diesel Range Organics (C10-C28)	562	25.0	mg/kg	500	74.4	97.6	38-132			
Surrogate: n-Nonane	*53.3*		"	*50.0*		*107*	*50-200*			
Matrix Spike Dup (1928016-MSD1)	Source: P907006-01			Prepared & Analyzed 07/09/19 1						
Diesel Range Organics (C10-C28)	591	25.0	mg/kg	500	74.4	103	38-132	4.94	20	
Surrogate: n-Nonane	*53.1*		"	*50.0*		*106*	*50-200*			

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Dugan Production Corp	Project Name:	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	07/10/19 14 23

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 1928011 - Purge and Trap EPA 5030A										
Blank (1928011-BLK1)				Prepared 07/09/19 0 Analyzed: 07/09/19 1						
Gasoline Range Organics (C6-C10)	ND	20 0	mg/kg							
Surrogate 1-Chloro-4-fluorobenzene-FID	*8.02*		"	*8.00*		*101*	*50-150*			
LCS (1928011-BS2)				Prepared 07/09/19 0 Analyzed: 07/09/19 1						
Gasoline Range Organics (C6-C10)	49 8	20.0	mg/kg	50.0		99.6	70-130			
Surrogate 1-Chloro-4-fluorobenzene-FID	*8 28*		"	*8.00*		*104*	*50-150*			
Matrix Spike (1928011-MS2)		Source: P907017-01		Prepared 07/09/19 0 Analyzed: 07/09/19 1						
Gasoline Range Organics (C6-C10)	52.7	20 0	mg/kg	50.0	ND	105	70-130			
Surrogate 1-Chloro-4-fluorobenzene-FID	*8.10*		"	*8.00*		*102*	*50-150*			
Matrix Spike Dup (1928011-MSD2)		Source: P907017-01		Prepared 07/09/19 0 Analyzed: 07/09/19 1						
Gasoline Range Organics (C6-C10)	54 9	20 0	mg/kg	50.0	ND	110	70-130	4 08	20	
Surrogate 1-Chloro-4-fluorobenzene-FID	*8.16*		"	*8.00*		*102*	*50-150*			

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Dugan Production Corp	Project Name	Farming D #1 R	
PO Box 420	Project Number	06094-0177	Reported:
Farmington NM, 87499	Project Manager	Mike Sandoval	07/10/19 14 23

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 1928013 - Anion Extraction EPA 300.0/9056A										
Blank (1928013-BLK1)				Prepared 07/09/19 0 Analyzed 07/09/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1928013-BS1)				Prepared 07/09/19 0 Analyzed 07/09/19 1						
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1928013-MS1)	Source: P907017-01			Prepared 07/09/19 0 Analyzed 07/09/19 1						
Chloride	268	20.0	mg/kg	250	ND	107	80-120			
Matrix Spike Dup (1928013-MSD1)	Source: P907017-01			Prepared 07/09/19 0 Analyzed 07/09/19 1						
Chloride	267	20.0	mg/kg	250	ND	107	80-120	0.250	20	

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

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Dugan Production Corp.	Project Name:	Farming D #1 R	
PO Box 420	Project Number:	06094-0177	Reported:
Farmington NM, 87499	Project Manager:	Mike Sandoval	07/10/19 14 23

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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Project Information

Client: Dugan Production
Project: Farming D #1R
Project Manager: Michael Sandoval
Address:
City, State, Zip
Phone: 505-320-0829
Email:

Chain of Custody

2 day

Page 1 of 1

Report Attention

Report due by:
Attention:
Address:
City, State, Zip
Phone:
Email:

Lab Use Only

Lab WO# 20 07018
Job Number 01094-0177

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ

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	TPH 418.1	Remarks
12:40	7-8-19	S	1	Farming D #1R North Wall 1	1	/	/	/			/		
12:35	7-8-19	S	1	Farming D #1R East Wall 2	2	/	/	/			/		
12:45	7-8-19	S	1	Farming D #1R South Wall 3	3	/	/	/			/		
12:30	7-8-19	S	1	Farming D #1R West Wall 4	4	/	/	/			/		
12:50	7-8-19	S	1	Farming D #1R Bottom 5	5	/	/				/		

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: Michael Sandoval

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	7-8-19	4:45	Rachel Lopez	7/8/19	4:45
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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

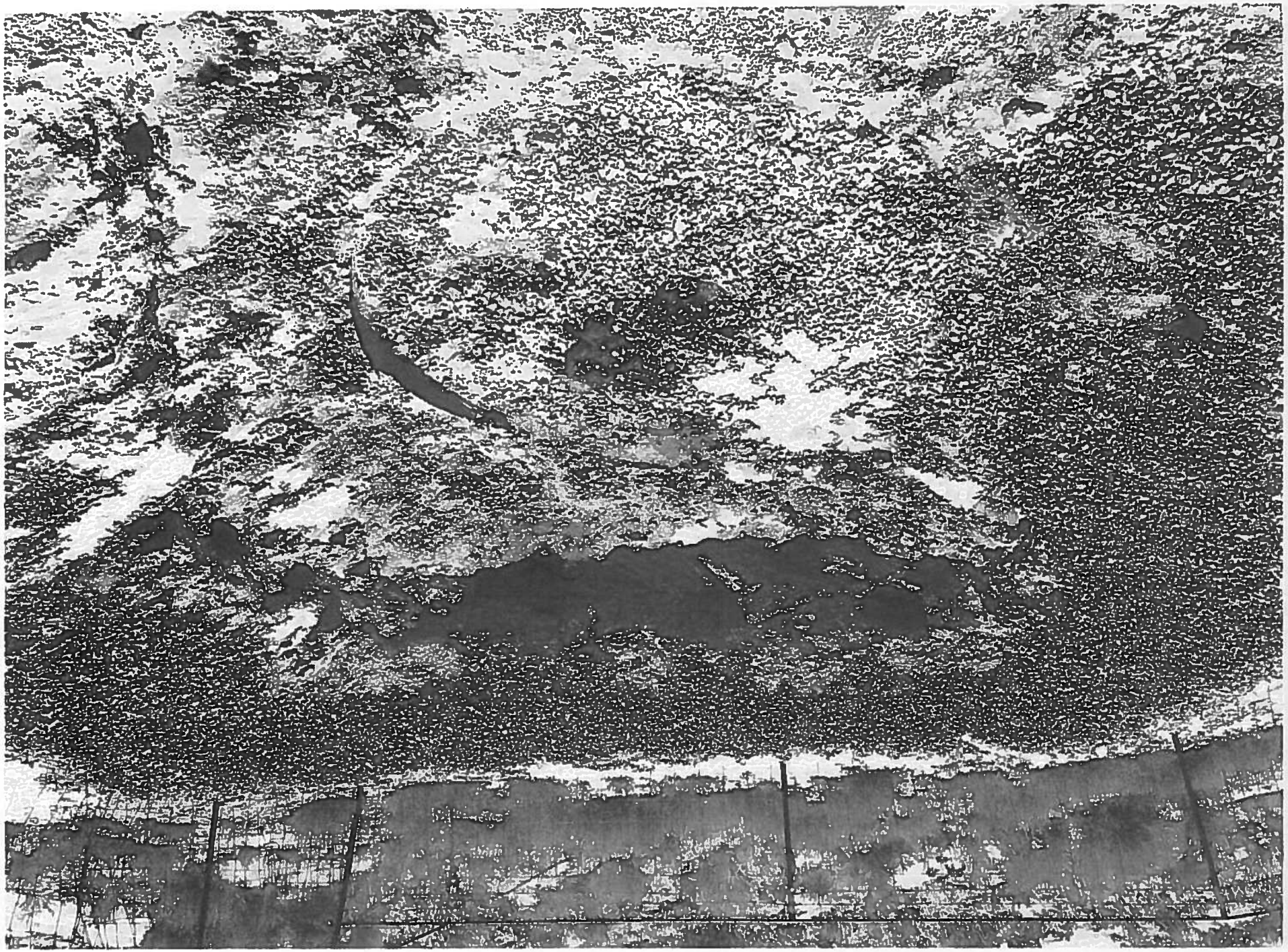
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

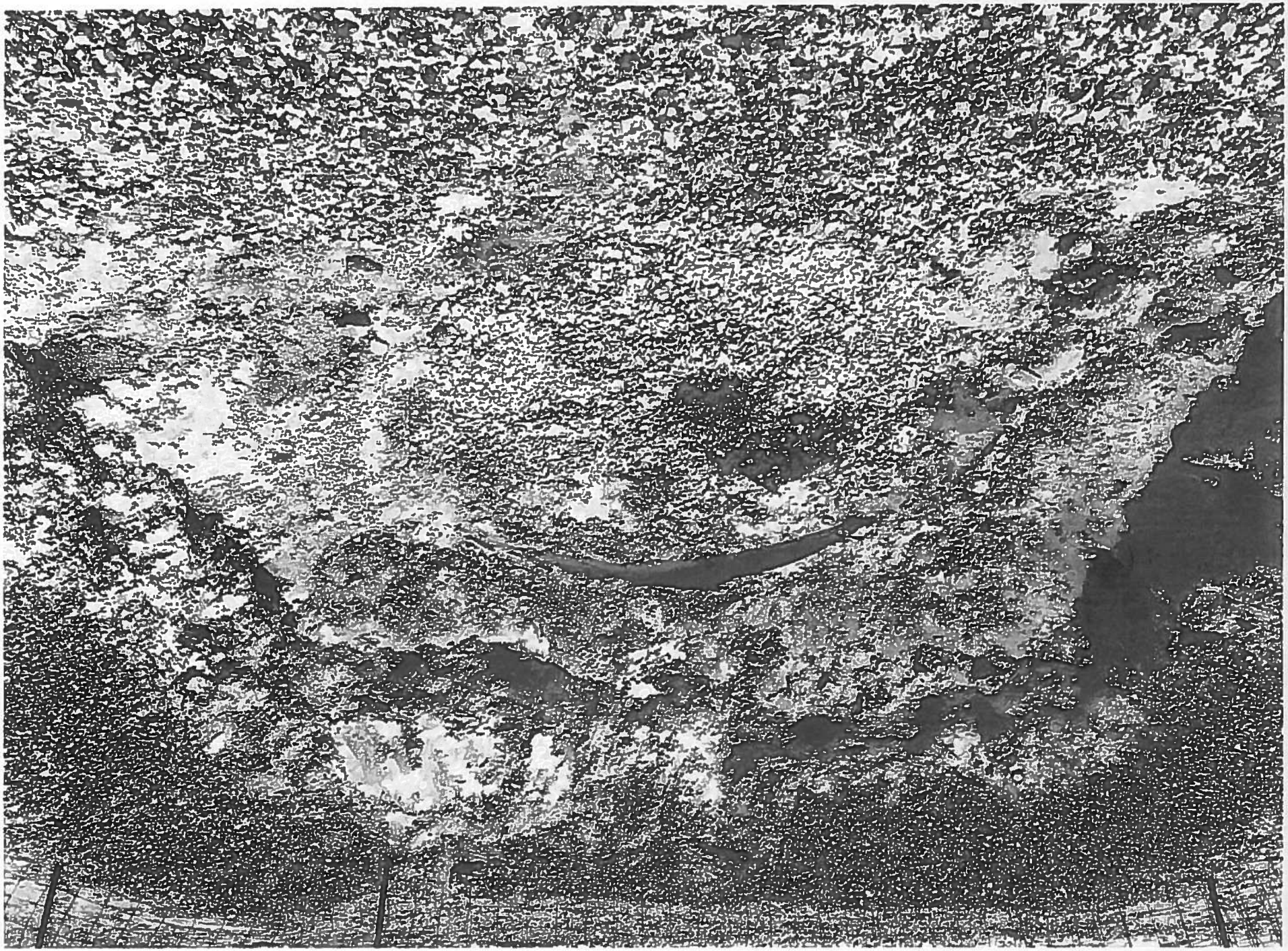
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this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

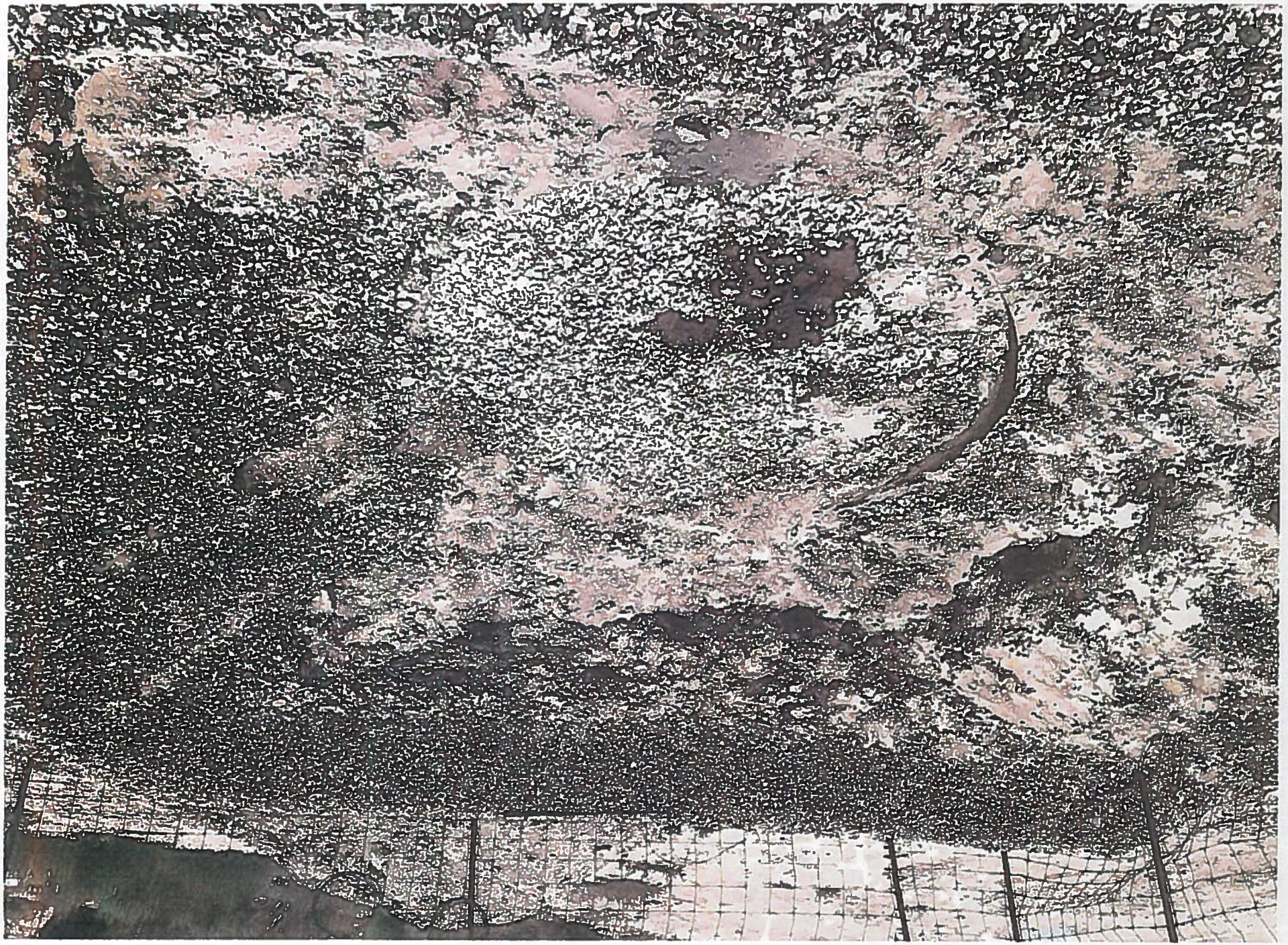
envirotech
Analytical Laboratory

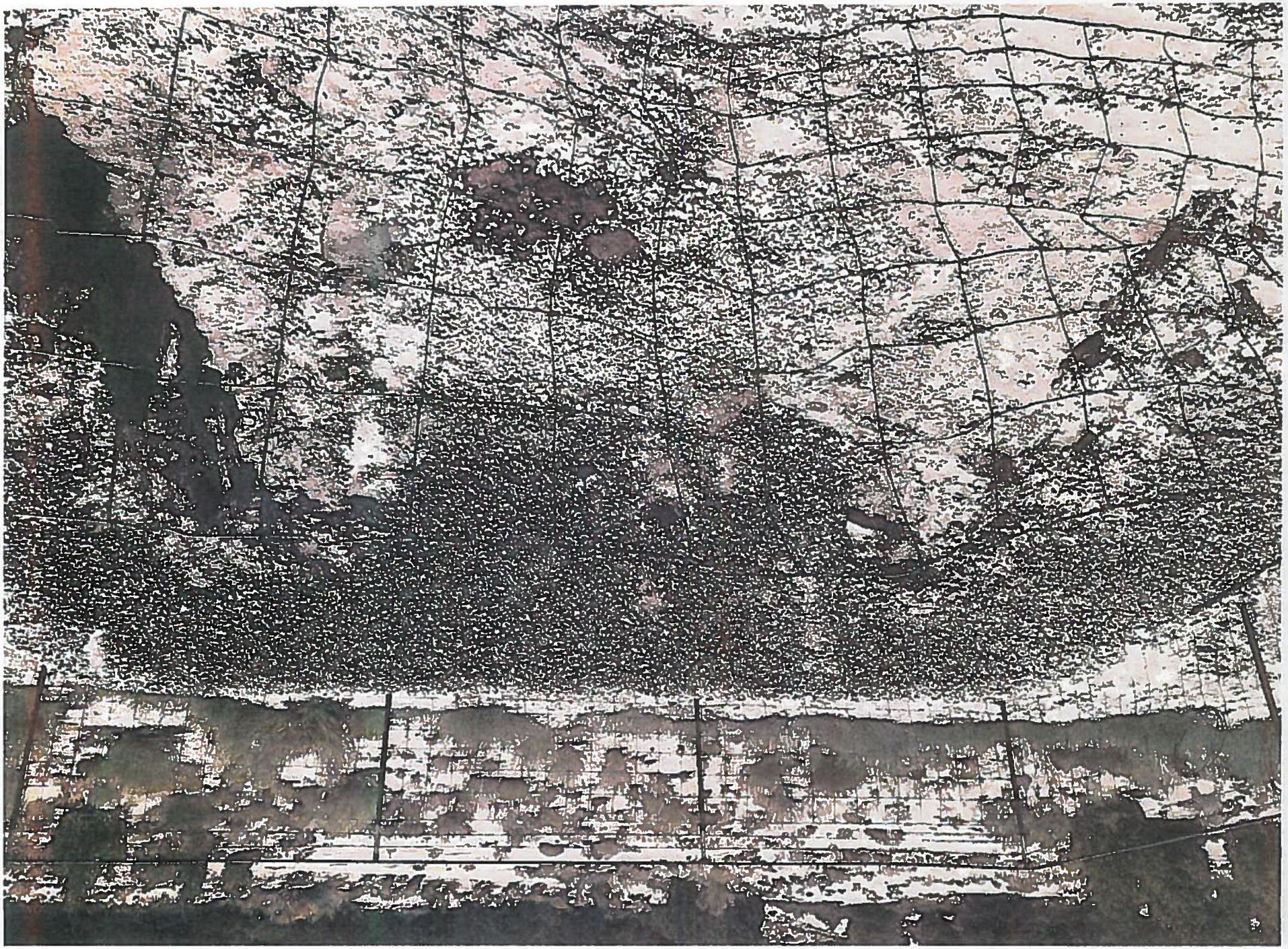
5796 US Highway 64, Farmington, NM 87401
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301
Ph (505) 632-0615 Fx (505) 632-1865
Ph (970) 259-0615 Fx (800) 362-1879

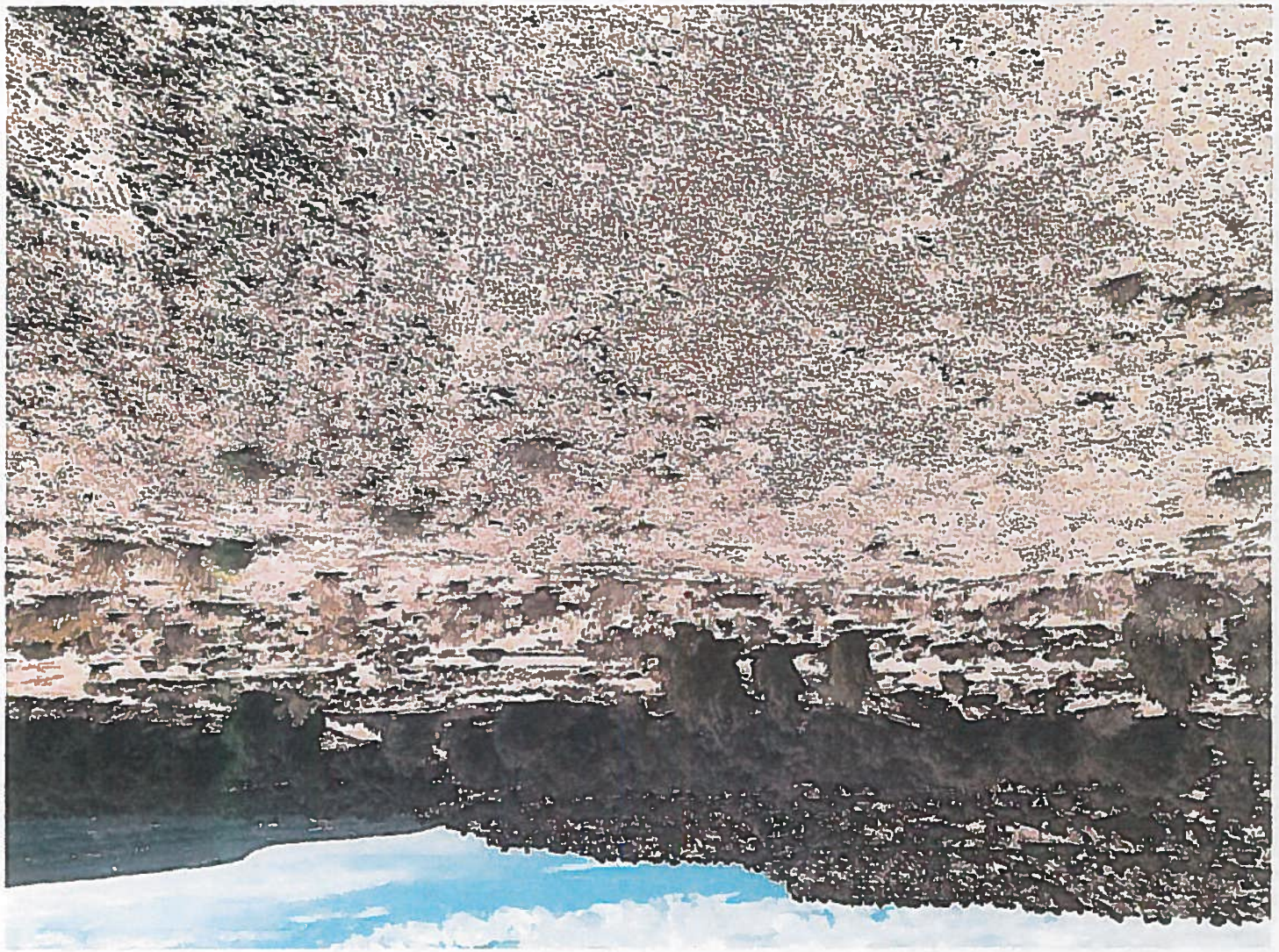

DUGAN PRODUCTION CORP.
FARMING D COM #1R
E-1200 API #30-045-25396
NE/4 SW/4 UNIT K
SEC.2 T27N R9W
LAT 36°36' 6" LONG 107°45'33"
SAN JUAN COUNTY, NM











from past, severe disturbance; natural, ongoing, Holocene range expansion; livestock grazing; fire exclusion; and effects of climatic variability and rising atmospheric CO2. (A synthesis on Pinyon-Juniper vegetation type Romme et al 2009).

Table 1. Reclamation Goal for Pinyon-Juniper Community Cover–Persistent (shallow, rocky soil)

Functional Group	*Percent (%) Foliar Cover*	*Common Species*
Trees/Shrubs/Grasses/Forbs	≥20	Utah juniper, pinyon pine; Utah serviceberry, alderleaf mountain mahogany, rubber rabbitbrush, cliff fendlerbush, big sagebrush, Antelope bitterbrush, green jointfir, Bigelow sagebrush, broom snakeweed, black sagebrush, Indian ricegrass, blue grama, bottlebrush squirreltail, muttongrass, needle-and-thread grass, sand dropseed, threeawn grass, prairie Junegrass, Arizona fescue, western wheatgrass, Wright's birdbeak, Eriogonum spp., hairy false goldenaster, pingue rubberweed, multi-lobed Senecio, scarlet globemallow, Penstemon spp., Wyoming paint brush, machaeranthera spp.
Invasive/undesirables **10% allowed toward meeting standard of 20%.**	≤10	Plants that have the potential to become a dominant species on a site where its presence is a detriment to revegetation efforts or the native plant community. Examples of invasive species include cheatgrass, Russian thistle, kochia.

Table 2. Reclamation Goal for Pinyon-Juniper Community Cover–Wooded shrubland (Deep soil)**

Functional Group	*Percent (%) Foliar Cover*	*Common Species*
Trees/Shrubs/Grasses/Forbs	≥20	Utah juniper, pinyon pine; big sagebrush, four-wing saltbush , Antelope bitterbrush, rubber rabbitbrush,, broom snakeweed, bottlebrush squirreltail, , western wheatgrass, Indian ricegrass, galleta, sand dropseed, threeawn grass, scarlet globemallow, wooly Indianwheat, fleabane spp., Penstemon spp., buckwheat spp., threadleaf groundsel
Invasive/undesirables **10% allowed toward meeting standard of 20%.**	≤10	Plants that have the potential to become a dominant species on a site where its presence is a detriment to revegetation efforts or the native plant community. Examples of invasive species include cheatgrass, Russian thistle, kochia.

Table 3. Menu based seed mix by habitat type for reclamation for pinyon-juniper community (minimum requirement)**

Common Name	*Scientific Names*	*Variety*	*Season*	*Form*	*PLS lbs/acre**
Plant one of the following:					
Mountain mahogany	*Cercocarpus montanus*	VNS	Warm	Shrub	2.0
Antelope bitterbrush	*Purshia tridentata*	VNS	Cool	Shrub	2.0

And two of the following:					
Western wheatgrass	*Pascopyrum smithii*	Arriba	Cool	Sod	2.0
Bottlebrush squirreltail	*Elymus elymoides*	Tusas or VNS	Cool	Bunch	3.0
Needleandthread	*Hesperostipa comata*	VNS	Cool	Bunch	3.0
And three of the following:					
Indian ricegrass	*Achnatherum hymenoides*	Paloma or Rimrock	Warm	Bunch	3.5
Blue grama	*Bouteloua gracilis*	Alma or Hachita	Warm	Bunch	2.0
Sand dropseed	*Sporobolus cryptandrus*	VNS	Warm	Bunch	0.5
Prairie Junegrass	*Koeleria macrantha*	VNS	Cool	Bunch	2.0
Muttongrass	*Poa fendleriana*	VNS	Cool	Bunch	2.0
And one of the following:					
Scarlet globemallow	*Sphaeralcea coccinea*	VNS	Warm	Forb	0.25
Utah sweetvetch	*Hedysarum boreale*	VNS	Warm	Forb	0.25

****Based on 60 pure live seeds (PLS) per square foot, drill seeded. Double this rate (120 PLS per square foot) if broadcast or hydroseeded.**

Photo 1. Pinyon-Juniper Woodland found in the Farmington Field Office.