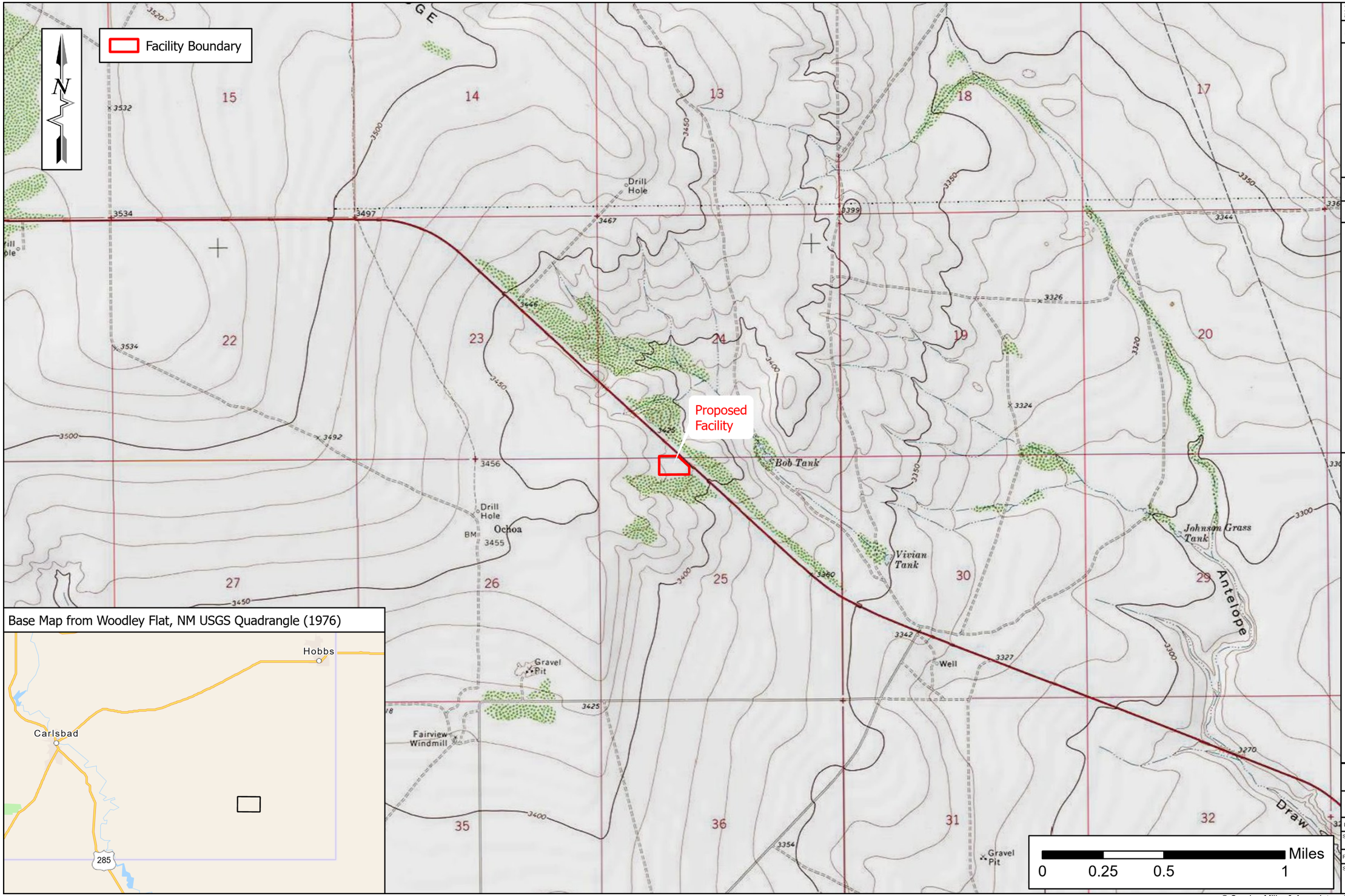
FIGURES



Rev #	Date	Description	By	Chkd

SMA
Souder, Miller & Associates
Engineering • Environmental
Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

VICINITY MAP ON USGS QUADRANGLE
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 12/20/2024

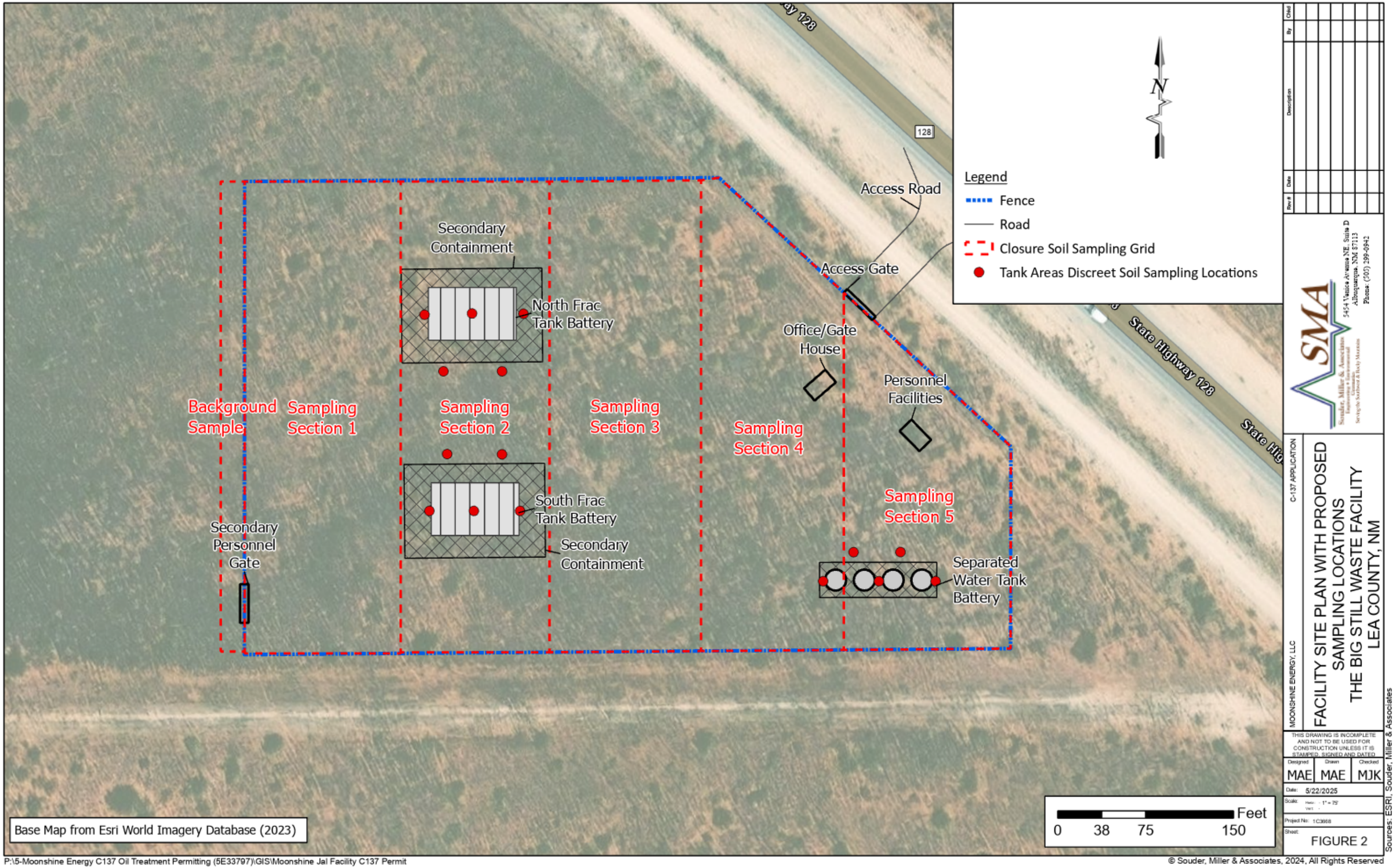
Scale: Horiz: - 1" = 2,000'
Vert: -

Project No: 1C33668

Sheet: FIGURE 1

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit



SMA
Souder, Miller & Associates
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION
MOONSHINE ENERGY, LLC

FACILITY SITE PLAN WITH PROPOSED SAMPLING LOCATIONS
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 5/22/2025
Scale: Horiz: 1" = 75' Vert: -
Project No: 1C3968
Sheet: FIGURE 2

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit

ATTACHMENT 1

THE BIG STILL OIL TREATMENT FACILITY
COST ESTIMATE BREAKDOWN

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Total Cost Summary

Phase No.	Task	Total
1	NMOCD Notification	$2,000.00
2	Cessation of Operations/Emptying Tanks	$53,387.00
3	Tank Cleaning and Removal	$26,292.00
4	Secondary Containment & Building Removal	$6,325.00
5	Site Confirmation Sampling	$25,980.00
6	Site Restoration & Revegetation	$33,875.00
7	CQA Reporting	$8,200.00
	Contingency/Administrative Cost (10%)	$15,605.00
Closure Total		**$171,664.00**

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Phase 1 - NMOCD Notification

Task/Activity	Cost Type and Anticipated Units				
	PM Labor Hours	Operator Labor Hours	Laborer Hours		
Cost per Unit	$200	100	50		**SubTotal Cost**
Letter of Notification to NMOCD	4				$ 800.00
Closure Plan Updates and Revisions	4				$ 800.00
Final Plan Approval	2				$ 400.00

Total Cost, Phase 1 - NMOCD Notification	**$ 2,000.00**

Assumptions:

Minor Revisions to Closure Plan will be required, no additional sampling or field work needed to obtain closure appoval

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Phase 2 - Cease Operations/Empty Tanks & Remove Waste

	Cost Type and Anticipated Units									
Task/Activity	PM Labor Hours	Laborer Hours	Vacuum Truck(110bbl) & Operator (per Hour)	Dump Truck & Operator (per Hour)	Front End Loader & Operator (per Hour)	Disposal Cost - Separated Water (per Barrel)	Disposal Cost - Solids (per yard)	Fuel Cost (per Gallon)	Mileage	
Cost per Unit	$ 200.00	$ 50.00	$ 105.00	$ 95.00	$ 100.00	$ 0.75	$ 50.00	$ 5.00	$ 2.00	**SubTotal Cost**
2.1 Cease Operations, Facility Closure										$ -
Coordinate Shutdown/Closure	40									$ 8,000.00
Office Closeout/Documentation	8	16								$ 2,400.00
										$ -
2.2 North Tank Battery - Material Removal										$ -
Remove and Dispose of Water (3750 bbl)			35			3750		175	70	$ 7,502.50
Transfer Crude to Independent Hauler (1250 bbl Vac)			12					60		$ 1,560.00
Remove & Transport Solids for Disposal (104 yd3)		16	10	8	8		104	58	120	$ 9,140.00
										$ -
2.3 South Tank Battery - Material Removal										$ -
Transfer Crude to Independent Hauler (5000 bbl Vac)			46					230		$ 5,980.00
Remove & Transport Solids for Disposal (104 yd3)		8		8	8		104		120	$ 7,400.00
2.4 Water Tank Battery - Material Removal										$ -
Remove and Dispose of Water (3000 bbl)			28			3000		140	60	$ 6,010.00
Remove & Transport Solids for Disposal (62 yd3)		8	4	5	5		62	70	75	$ 5,395.00
										$ -

Total Cost, Phase 2 - Cessation of Operations & Emptying of Tanks	**$ 53,387.50**

Assumptions:

The facility closure occurs at a time when all waste storage tanks are 100% full of waste

Estimate also assumes that an additional 10% of the total tank volumes will be solid basic sediment and water (BS&W) which will require disposal at a permitted facility. The 10% BS&W volume is omitted from liquid waste disposal calculations to ensure a conservative estimate)
Assumes North Tank Batteries contain 75% water, 25% crude which can be recycled
Assumes South Tank Batteries contain 100% crude which can be recycled/sold
Assumes Separated Water Tanks contain 100% water
Separated hydrocarbons/crude/oil has value and can be sold and therefore not incur disposal costs

Travel and Time Calculations and Assumptions

Vacuum Truck - Water Disposal. Assume disposal @ MooMaw SWB Facility 0.5 miles south of Facility. Assume 1 hour round trip (0.4 hours load, 0.4 hours unload, 0.2 hours Transit Time)
Vacuum Truck - Crude Transfer. Assume transfer of material within facility, 1 hours per load. No travel out of facility
Solid Disposal - Assume 1 hour of vac truck time and laborer per tank for removal of solids. Solids loaded using front end loader, transferred via 14 yard dump truck to NGL North Ranch Disposal Facility, 15 mile round-trip, 1 hour per trip. 1 hour loader time per trip
Assume 5 gallons fuel per hour for Vaccum Truck and Loader Operation
Mileage assumes cost of fuel for dump trucks/vacuum truck

Disposal Volume Calculations

Waste Material Volumes								
Unit	**Volume**	**Quantity**	**Volume Crude per Tank (bbl)**	**Volume Water per Tank (bbl)**	**Volume Solids per Tank (yd3)**	**Total Volume Crude for Sale (bbl)**	**Total Volume Water for Disposal (bbl)**	**Total Volume Solids for Disposal (yd3)**
North Tank Battery - Acceptance Frac Tanks	500 bbl	10	125	375	10.4	**1250**	**3750**	**104**
South Tank Battery - Crude Storage Tanks	500 bbl	10	500	0	10.4	**5000**	**0**	**104**
Separated Water Tanks	750 bbl	4	0	750	15.6	**0**	**3000**	**62**
Frac Tank Secondary Containment	9600 ft2 liner	2			36		-	**71**
Water Tank Secondary Containment	3000 ft2 liner	1			11			**11**
Contaminated Soil	9600 ft3	1			200			**200**
Total Volumes for Facility						**6250**	**6750**	**353**

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Phase 3 - Tank Cleaning and Removal

	Cost Type and Anticipated Units										
Task/Activity	PM Labor Hours	Dump Truck & Operator (per Hour)	Vacuum Truck(110bbl) & Operator (per Hour)	Tank Cleaning Crew (3-person) with Water Truck & Equipment (per hour)	Tank Dismantling Crew (4-person) with tools and truck (cost per hour)	Excavator with Tank Cutting Attachment and Operation (cost per hour)	Disposal Cost - Separated Water (per Barrel)	Disposal Cost - Solids (per yard)	Fuel Cost (per Gallon)	Mileage	
Cost per Unit	$ 200.00	$ 95.00	$ 105.00	$ 160.00	$ 200.00	$ 400.00	$ 0.75	$ 50.00	$ 5.00	$ 2.00	**SubTotal Cost**
3.1 North Tank Battery - Cleaning & Removal											$ -
Remove Hoses and Valves				10							$ 1,600.00
Steam Clean Interior			20	20			220		100	4	$ 5,973.00
Coordinate Pickup/Removal from Site	2										$ 400.00
											$ -
3.2 South Tank Battery - Cleaning & Removal											$ -
Remove Hoses and Valves				10							$ 1,600.00
Steam Clean Interior			20	20			220		100	4	$ 5,973.00
Coordinate Pickup/Removal from Site	2										$ 400.00
											$ -
3.3 Water Tank Battery - Cleaning & Dismantling/Disposal											$ -
Remove Hoses and Valves				4							$ 640.00
Steam Clean Interior			8	8			110		40	2	$ 2,406.50
Dismantle Tanks					8	8					$ 4,800.00
Dispose of Tanks		4						40		60	$ 2,500.00
											$ -
											$ -

Total Cost, Phase 3 - Tank Cleaning and Removal	**$ 26,292.50**

Assumptions:

Assumes all 20 site frac tanks can be reused at other facilities or sold and will therefore not incur disposal or transportation costs

Assumes the 4 fiberglass salt water tanks cannot be reused and will need to be dismantled and hauled away for sale

All transfer hoses can be reused at facilites and will not incurr disposal costs

Travel and Time Calcs

Cleaning Team - Assumes a 3-person cleaning crew with equipment including power washer and water truck. Team will require 2 hours for each tank cleaned

Vacuum Truck - Water Disposal. Assume vacuum truck present on site 50% of cleaning time to collect cleaning water and transport for disposal @ MooMaw SWB Facility 0.5 miles south of Facility.

Assume tank dismantling completed by 4-person crew with associated tools and excavator with cutting attachment. Moblization included in hourly rate

Tank Disposal - Assume tank transferred via 14 yard dump truck to NGL North Ranch Disposal Facility, 15 mile round-trip, 1 hour per trip

Assume 5 gallons fuel per hour for Vaccum Truck

Mileage assumes cost of fuel for vacuum truck

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Phase 4 - Secondary Containment and Modular Building Removal

	Cost Type and Anticipated Units						
Task/Activity	PM Labor Hours	Dump Truck & Operator (per Hour)	Tank Dismantling Crew (4-person) with tools and truck (cost per hour)	Disposal Cost - Solids (per yard)	Fuel Cost (per Gallon)	Mileage	
Cost per Unit	$ 200.00	$ 95.00	$ 200.00	$ 50.00	$ 5.00	$ 2.00	**SubTotal Cost**
4.1 North Tank Battery - Containment Removal	1						$ 200.00
Dismantle Steel Walls			1				$ 200.00
Cut up Liner			2				$ 400.00
Transport to Landfill		1		14		15	$ 825.00
							$ -
4.2 South Tank Battery - Containment Removal	1						$ 200.00
Dismantle Steel Walls			1				$ 200.00
Cut up Liner			2				$ 400.00
Transport to Landfill		1		14		15	$ 825.00
							$ -
4.3 Water Tank Battery - Containment Removal	1						$ 200.00
Dismantle Steel Walls			1				$ 200.00
Cut up Liner			1				$ 200.00
Transport to Landfill		1		11		15	$ 675.00
							$ -
4.4 Building Removal	1						$ 200.00
Remove Material/Dismantle as Necessary			8				$ 1,600.00
							$ -
Total Cost, Phase 4 - Secondary Containment & Building Removal							**$ 6,325.00**

Assumptions:

Assumes steel walls from secondary containment can be reused/recyled and will not incurr disposal costs

Assumes liner can be rolled/cut into sections and will have a rolled thickness of 0.1 foot for volume calculations

Assumes buildings can be removed from site and reused at another facility, and will therefore not incurr disposal costs

Travel and Time Calcs:

Assume containment dismantling completed by 4-person crew with associated tools. Moblization included in hourly rate

Liner Disposal - Assume liner transferred via 14 yard dump truck to NGL North Ranch Disposal Facility, 15 mile round-trip, 1 hour per trip.

Mileage assumes cost of fuel for dump truck

SMA

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Phase 5 - Soil Confirmation Sampling

	Cost Type and Anticipated Units						
Task/Activity	PM Labor Hours	Staff Scientist	Laboratory Analysis - TPH, BTEX, RCRA 8 Metals, Cations/Anions	Hand Auger	Per Diem	Mileage	
Cost per Unit	$ 200.00	$ 120.00	$ 500.00	$ 450.00	$ 160.00	$ 1.00	**SubTotal Cost**
5.1 Confirmation Sampling							$ -
Collect Soil Samples - 5 Sec. & background		10	11	1	1	250	$ 7,560.00
Discreet Tank Sampling - 15 Borings, 15 Samples	2	10	15	1	1	50	$ 9,760.00
Stained Soil Sampling	2	4	2		1	50	$ 2,090.00
Post-Remediation Confirmation Sample Collection	2	10	4		1	250	$ 4,010.00
Reporting	8	8					$ 2,560.00
							$ -
							$ -

Total Cost, Phase 5 - Soil Confirmation Sampling	**$ 25,980.00**

Travel and Time Calcs:

Assume 1 person team to collect samples, mobilization from Albuquerque, NM

Assume collection of 26 soil samples for initial effort - 1 background, 10 composite samples throughout property (2 depths), 15 samples from tank areas

Assume collection of 2 soil samples in one area with staining

Assume collection of 4 confirmation samples after remediation on separate mobilization

Mileage assumes cost of fuel for team

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Phase 6 - Revegetation and Reclamation

	Cost Type and Anticipated Units										
Task/Activity	PM Labor Hours	Laborer	Dump Truck & Operator (per Hour)	Front End Loader & Operator (per Hour)	Grader & Operator (per Hour)	Dozer and Operator (per Hour)	Reseeding (Cost Per Acre)	Disposal Cost - Solids (per yard)	Fuel Cost (per Gallon)	Mileage	
Cost per Unit	$ 200.00	$ 50.00	$ 95.00	$ 100.00	$ 125.00	$ 165.00	$ 1,500.00	$ 50.00	$ 5.00	$ 2.00	**SubTotal Cost**
6.1 Caliche Removal											$ -
Remove Caliche from Site, assume 800 yards			20	10		20			300	300	$ 8,300.00
											$ -
6.2 Contaminated Soil Removal											$ -
Assume 200 yards required for removal			14	7		8		200	65		$ 13,675.00
											$ -
6.3 Regrading											$ -
Remove Berms and Regrade					10	10			300		$ 4,400.00
											$ -
6.3 Reseeding											$ -
Reseed Area using Native Seeds							5				$ 7,500.00
											$ -

Total Cost, Phase 6 - Site Restoration and Revegetation	**$ 33,875.00**

Assumptions:

Assumes Caliche can be reused and will not incur disposal costs

Assumes up to 200 yards of contaminated soil will need to be removed from site

Assumes regrading will not require fill material

Travel and Time Calcs

Caliche Removal - Assume 4 Hours per Acre for Dozer to Scrape Material, Approximately 800 yards of Material for Removal. Loaded using front end loader, transferred via 14 yard dump truck to NGL North Ranch Disposal Facility, 15 mile round-trip, 1 hour per trip. 0.5 hour loader time per trip

Contaminated Soil Removal - Assumes soil can be scraped using dozer, transported by dump truck for disposal at North Ranch Disposal Facility

Regrading completed by dozer to remove berms, grader to level and contour. 2 hours per acre for grader, dozer clears berm in 10 hours

Reseeding Completed by Subcontractor at per-acre rate

Assume 10 gallons fuel per hour for heavy equipment

Mileage assumes cost of fuel for dump truck

Attachment 1 - Closure Cost Estimate

Big Still Oil Treatment Facility

Lea County, New Mexico

April, 2025

Phase 7 - CQA Reporting

Task/Activity	Cost Type and Anticipated Units				
	PM Labor Hours	Construction Observer	Professional Engineer		
Cost per Unit	$ 200.00	$ 120.00	$ 150.00		**SubTotal Cost**
Closure Activity Oversight	1	40			$ 5,000.00
Review of Documentation	2		8		$ 1,600.00
Prepare/Stamp CQA Plan	2		8		$ 1,600.00

Total Cost, Phase 7 - CQA Reporting to NMOCD	**$ 8,200.00**

Assumptions:

Assume Oversight of Activities by Construction Observer ~50% of time

APPENDIX H

CONTINGENCY PLAN

Contingency Plan

The Big Still Treatment Facility

Lea County, New Mexico

C-137 Surface Waste Management Facility Application

May 2025

Prepared for:

Moonshine Energy, LLC
3206 Ma Mar Ave
Midland, TX 79705

SMA
Souder, Miller & Associates
Engineering ♦ Environmental ♦ Geomatics
5454 Venice Avenue NE, Suite D ♦ Albuquerque, NM 87113
505.299.0942 ♦ fax 505.293.3430 ♦ www.soudermiller.com

CONTINGENCY PLAN
THE BIG STILL OIL TREATMENT FACILITY

TABLE OF CONTENTS

LIST OF FIGURES, TABLES, AND ATTACHMENTS

Figures

Tables

Attachments

The Big Still Oil Treatment Facility
CONTINGENCY PLAN
NM OCD C-137 Facility Application

1.0 INTRODUCTION

The Moonshine Energy, LLC Big Still Oil Treatment Facility (Big Still, or Facility) is a proposed surface waste treatment facility which will be established and operated in accordance with New Mexico Oil Conservation Division (NM OCD) regulations as outlined and defined in 19.15.36 New Mexico Administrative Code (NMAC). The purpose of the facility will include processing tank bottoms, produced water, or other hydrocarbons from oil and gas operations to separate usable hydrocarbon material for sale and processing.

1.1 Purpose

This Contingency Plan (Plan) has been prepared to provide a thorough and available reference documenting emergency procedures at the Facility and to address the requirements of 19.15.36.13.N NMAC, which specifies that operators of surface waste management facilities must prepare and have available a Contingency Plan to address emergencies and unplanned events.

This Plan is organized for easy reference by Facility personnel, each of whom will be required to read it. The Plan is designed to minimize hazards to fresh water, public health, and the environment. These hazards include fires, explosions, or any unplanned sudden or non-sudden release of contaminants and/or hazardous waste constituents to air, soil, surface water or groundwater. Applicable provisions of this Plan will be implemented immediately in the event that any hazard to public health, welfare, or the environment occurs at the site.

As detailed in Section 8.0 of this Plan, whenever significant changes to the Plan are made, revised copies of the Plan will replace existing copies; and NM OCD will be provided with the most recent Plan update.

1.2 General Information

The proposed Facility will be located near mile marker 37.3 on New Mexico Highway 128, approximately 15 miles west of the City of Jal, New Mexico. The property is located within Township 24 South, Range 34 East, Section 25, and consists of a 5.4± acre parcel leased to Moonshine Energy, LLC. The facility will utilize the entire parcel, and will consist of a fenced, cleared and leveled area with caliche surface cover allowing for access and maneuvering of large trucks and equipment. Three tank batteries will be located on the facility for processing tank bottoms, hydrocarbons, or produced water delivered to the facility. Two tank batteries, located in the west-central portions of the property, will be used for the receipt of waste and for storage of reclaimed hydrocarbons prior to sale. Each of the two batteries will consist of ten (10) 500 barrel (bbl) (21,000 gallon) capacity steel frac tanks, situated within a secondary containment area constructed of 3-foot steel walls lined with a with a 40-mil High Density Polyethylene (HDPE) liner to prevent release of any spilled material. An additional tank battery consisting of four (4) 750 bbl (31,500 gallon) fiberglass tanks situated within secondary containment (also steel walls with a 40-mil HDPE liner) will be located on the southeast portion of the Facility and be utilized to store separated water until it is removed for disposal. The Facility will have two skid-mounted modular buildings to function as an

office/gate house and personnel facilities. The Facility will be staffed by at least one operator during all periods of operation.

1.3 Plan Availability & Agency Coordination

Copies of this Plan will be maintained in a readily accessible location within the Facility office. Copies of the Plan will also be made available to interested state and local emergency agencies as listed in Table 2. Local emergency response agencies are invited to the site for the purposes of inspecting the Facility, reviewing the Plan's contents, and for coordinating potential emergency response actions.

Emergency contact information will also be posted on signs located at the facility access gate and near the tank batteries.

1.4 Staff Training Program and Requirements

All employees working at the Facility will be required to attend training on operations and contingency/emergency response (this Plan) upon hire and attend annual refresher trainings thereafter. Refresher training will be completed and documented annually in employee files and maintained in facility records for no less than five (5) years. Specific emergency contingency training will include responses to fire emergencies, spill/release prevention and response, and identification of hazardous wastes.

2.0 EMERGENCY COORDINATORS AND RESPONSE AGENCIES

The Facility has designated specific individuals with the responsibility and authority to implement response measures in the event of an emergency which threatens public health, welfare, or the environment. The Primary and Alternate Emergency Coordinators (ECs) will be thoroughly familiar with all aspects of this Plan; operations and activities at the Facility; location and characteristics of wastes to be managed; and the Facility layout.

The Primary EC and Alternate EC are selected based upon each individual possessing a general knowledge of Facility operations; the ability to initiate a chain-of-command response within the Facility; and the completion of specific training. Specific training includes hazardous materials management, waste screening procedures, and Operator Certification.

The ECs are responsible for coordinating emergency response measures and have the authority to commit the resources required for implementation and maintenance of this Plan. Duties of the ECs are described below, and are addressed within the Plan in detail. Table 1 lists the names, titles, and office and mobile phone numbers of the Primary EC and designated Alternate EC. The Primary EC and/or the designated Alternate EC are available to respond to an emergency 7 days a week, 24 hours a day. Upon arrival at the scene of an emergency, the Primary EC will assume responsibility for response measures initiated by the designated Alternate EC, if applicable. The contact information for the designated ECs will be posted at prominent locations at the facility.

TABLE 1
List of Emergency Coordinators
The Big Still Oil Treatment Facility

Primary Emergency Coordinator			
Name:	Calvin Brown		
Title:	Big Still Facility Manager	Mobile/Home Phone:	575-361-2730
Address:	491 Scarlet Ct., Canyon Lake, TX		
Alternate Emergency Coordinator			
Name:	Allen Mosig		
Title:	Facility Operator	Mobile/Home Phone:	432-241-7061
Address:	3206 Ma Mar Ave. Midland, TX 79705		
Alternate Emergency Coordinator			
Name:	Michael McCurdy		
Title:	Regional Manager	Mobile/Home Phone:	432-312-5251
Address:	2004 Humble Ave. Midland, TX 79705		

As detailed in Section 1.3, copies of this plan will be made available to emergency response agencies. The contact information for local, state, and federal emergency response agencies is included in Table 2 below.

TABLE 2
Emergency Response Agencies and Contacts
The Big Still Oil Treatment Facility

Agency/Organization	Emergency Number
Fire	
• Jal Fire Department	911 or 575.395.2211
Police	
• Jal Police Department	911 or 575.395.2501
• Lea County Sheriff's Department	911 or 575.396.3611
• New Mexico State Police-Hobbs	911 or 575.392.5580
Medical/ Ambulance	
• Jal Fire Department	911 or 575.395.2211
• Jal Clinic	575.395.3400
• Winkler County Memorial Hospital (Kermit, TX)	432.586.8299
• Covenant Health Hospital (Hobbs, NM)	575.492.5000
State Emergency Response Contacts	
• New Mexico Oil Conservation Division Emergency Contacts	
○ OCD District 1 Office, Hobbs, NM	505.629.6116
○ OCD Main Office, Santa Fe, NM	505.476.3441
• New Mexico Environment Department	
○ Spill Emergencies 24 hr. Hotline (NMED)	505.827.9329
○ Hazardous Waste Bureau, Santa Fe	505.476.6000
○ Radiation Control Bureau, Santa Fe	505.476.8600
Federal Emergency Response Contacts	
• National Emergency Response Center (U.S. Coast Guard)	800.424.8802
• Region 6 Emergency Response Center (USEPA)	866.372.7745
Local Emergency Planning Committee Contact	
• Lea County Emergency Management	575.605.6561

2.1 Medical Facilities

The Jal Clinic, located at 805 W. Kansas in, Jal, New Mexico, is the closest medical center to the Facility. However, the clinic is only open for limited hours and is not equipped to handle serious injuries. The closest hospital capable of providing care in an emergency facility is the Winkler County Memorial Hospital, located approximately 36 miles to the southeast in Kermit, Texas. A map with directions to the Winkler County Memorial Hospital is included as Figure 4.

3.0 PLAN IMPLEMENTATION AND EMERGENCY PROCEDURES

This Plan will be implemented when an imminent or actual emergency situation develops that represents a potential impact to public health, fresh water, or the environment. Situations that could require implementation of the Plan include:

- Fires/explosions/accidents
- Spills or releases of materials into the surface, air, groundwater, or surface water

In the event of an emergency situation, the facility will implement the emergency procedures described in Table 3 below, which follows a five-phase response: Staff Notification, Assessment, Containment, Responder Notification, and Site Control. Additional response actions and procedures specific to the nature of the emergency are included in Sections 3.1 (Fires/Explosions) and Section 3.2 (Spill or release of materials to soil, groundwater, surface water, or air).

TABLE 3
Emergency Response Procedures
The Big Still Oil Treatment Facility

In the event of an emergency situation:
1. **Notification of Facility Personnel/EC:** The employee who first becomes aware of the fire or explosion will immediately notify the Primary EC. If the Primary EC is on-site, he/she will be contacted first. In the event the Primary EC cannot be readily contacted, the Alternate EC will be contacted. The EC can be notified in person, via telephone, or by radio. The EC, alternate EC, or employee designated to coordinate the response, will then notify all active facility personnel by phone or radio and provide instructions regarding assessment, response, or if needed, evacuation.
2. **Assessment:** Upon arrival, the EC will assess the source, amount, and extent of any released material resulting from the situation and determine possible hazards to human health, welfare or the environment. The assessment may be conducted by direct observation, review of facility records and manifests, or by chemical analysis. The assessment will include: **a. Initial Hazard Identification** i. Nature of the hazard: is the emergency a fire, substance release or other ii. Location: identification of the area and extent of hazard iii. Hazard Identification: Evaluation of the type, quantity, and status of any burning or released material and potential characteristics including corrosivity, naturally occurring radioactive material (NORM), or H_2S. **b. Vulnerability Analysis (damage potential)** i. Extent: identify the extent of the vulnerable zone and potential impacts. This can include the size of fire/release, wind direction, proximity to receptors, etc. ii. Human Safety: identification of persons within the vulnerable zone, including facility personnel, other facilities, general public, etc. iii. Environmental Safety: identification of potential environmental impacts, including critical habitat, endangered species, water resources, etc. iv. Severity of hazard: potential for hazard to damage people, environment, or property

c. Risk Analysis (probability of damage) i. Environmental conditions: potential for the situation to spread or propagate due to precipitation, weather, etc. ii. Facility personnel training: ability for on-site personnel to control the situation or need for external resources iii. Equipment availability: Equipment present at the facility or nearby which can be used to mitigate/control the situation
3. **Containment:** Responses to the situation which will contain and control the threat and mitigate hazards. a. **Facility Response:** If deemed safe by the EC, containment actions will be performed by on-site personnel who are trained in response utilizing appropriate equipment and materials. b. **Emergency Response:** if the scope of the situation exceeds personnel training or equipment on-site, emergency responders, including the local fire department or police, will be notified utilizing information presented in Table 2. **c. Containment Responses:** i. Fire or Explosion: Section 3.1 includes details on proposed responses to a fire or explosion emergency ii. Spill/Release to soil: Section 3.2.2 includes details on proposed responses to a release of material to the ground surface/soil. iii. Spill/Release to surface water: Section 3.2.3 includes details on proposed responses to a release of material to surface water resources. iv. Spill/Release to groundwater: Section 3.2.4 includes details on proposed responses to a release of material to groundwater. v. Release to air: Section 3.2.5 includes details on proposed responses to a release of chemicals or material to the atmosphere. vi. Hydrogen Sulfide: Specific responses to a release of hydrogen sulfide (H_2S) are included in the Hydrogen Sulfide Contingency Plan
4. **Notification of Emergency Authorities:** Appropriate state and local emergency authorities will be notified of the situation depending on the severity of the hazard and level of assistance needed. The NM OCD will also be notified of any situation within 15 business days (Section 5.0 below) utilizing Form C-141, and in the case of major spills or releases, will be notified within 24 hours. If an incident requires activation of the H_2S Contingency Plan, the NM OCD will be notified within four hours of activation of the plan. Table 2 lists phone numbers and contact information for both local and state agencies.
5. **Site Control:** As soon as the situation is assessed, the EC will divert any facility personnel or traffic from the area until the area is deemed safe and the situation is resolved. Site control measures may include implementation of the facility evacuation plan to remove non-essential personnel (Section 3.3, Figure 2) and closure of facility access by securing the main access gate.

3.1 Fires/Explosions

Although the Facility will be operated in a manner that does not pose a fire hazard to personnel or property, the potential for fire or explosions needs to be considered. The most likely scenario for a fire involves ignition of material during unloading or transfer of waste between storage tanks or as a result of

a spill. Table 5 includes a list of equipment which will be maintained on-site in the event of fire. All facility personnel will be trained in the use of the equipment and their storage locations, and all equipment will be inspected annually and maintained in operable condition. In the event a fire cannot be contained by facility staff, emergency numbers for local responders are posted on the facility near the access gate and tank batteries.

The following procedures will be implemented by on-site staff in the event of a fire:

1. The employee who first becomes aware of the fire or explosion will immediately notify the EC. If the Primary EC is on site they will be contacted first. In the event the Primary EC cannot be contacted, the Alternate EC will be contacted. The EC can be notified in person, via telephone, or by radio. The EC will coordinate initial assessment/response in accordance with Table 3.
2. If the fire or explosion poses a hazard to facility personnel or infrastructure, an evacuation will be ordered as outlined in Section 3.3.
3. The employee who first becomes aware of the fire or explosion will immediately initiate response actions within the scope of their training to control the spread of fire. Equipment which may be used to control the fire includes fire extinguishers or placement of soil to smother the fire.
4. Once present at the scene, the EC will direct efforts at extinguishing the fire. If the scope of the fire is beyond the capabilities of the on-site personnel to contain and/or extinguish it, the EC will contact the City of Jal Fire Department (Table 2) for assistance.
5. Once the fire has been extinguished, the EC will assess the area and, if necessary, engage with a third-party contractor to remediate the impacted area. If water was required to extinguish the fire, spill containment equipment (Table 5) will be utilized to prevent the spread of the liquid off of the Facility.
6. All impacted media, including materials utilized to control the fire, burned structural debris, ash, or slag, will be containerized and properly disposed of by a third-party contractor as described in Section 6.0.
7. Once operations are complete, the EC will ensure proper decontamination of any equipment used to fight the fire before returning it to its proper location and perform an inspection of the equipment and verify that all emergency equipment is cleaned and fit for future use.

After responding to the incident, the EC will document the incident on an incident report form (Attachment 2) and meet with involved personnel to assess the cause of the fire or explosion. The identified causative agent will be removed from the vicinity of the Facility if the possibility of re-ignition exists. Applicable processes or operational changes appropriate to prevent its recurrence will be developed and implemented. The NM OCD and any other applicable agencies will be notified as detailed in Section 5.0.

Personnel involved with the management, transport, and processing of materials at the Facility will be informed of the resultant actions. Significant changes in operating protocol or procedures resulting from this meeting will be documented and added as an amendment to the Plan (see Section 8.0); the Facility will provide updated plans to emergency entities and NM OCD.

3.2 Spills/Releases to soil, surface water, groundwater, or air

Although the Facility will be operated in a manner that does not pose a hazard to personnel or property, there exists a potential for the unwanted release of material to the ground surface, surface water, or groundwater. All deliveries to the site will be screened in accordance with the Waste Management Plan prepared for the facility in order to preclude acceptance of unauthorized wastes.

Given the nature of the material processed and treated at the Facility, the material most likely to be spilled during operations will be hydrocarbons and produced-water brines. Table 5 includes a list of equipment to be maintained at the facility to address any spills or releases.

3.2.1 Spill/Release Definitions

Releases related to the production of oil and gas are addressed in 19.15.29 NMAC. The administrative code specifies two categories of releases – major and minor, which are defined as below.

19.15.29.7.A – "Major Release" means:

(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more;
(2) an unauthorized release of a volume that:
  (a) results in a fire or is the result of a fire;
  (b) may with reasonable probability reach a watercourse;
  (c) may with reasonable probability endanger public health; or
  (d) substantially damages property or the environment;
(3) an unauthorized release of gases exceeding 500 MCF; or
(4) a release of a volume that may with reasonable probability be detrimental to fresh water.

19.15.29.7.B – "Minor Release" means an unauthorized release, which is not a major release and is a volume greater than five barrels but less than 25 barrels; or for gases, greater than 50 MCF but less than 500 MCF.

3.2.2 Release to Soil/Ground Surface

In the event of a release, the following procedures will be implemented by on-site staff:

1. The employee who first becomes aware of the release will immediately notify the EC. If the Primary EC is on-site they will be contacted first. In the event the Primary EC cannot be contacted, the Alternate EC will be contacted. The EC can be notified in person, via telephone, or by radio. The EC will coordinate initial assessment/response in accordance with Table 3 and attempt to characterize the spill by assessing corrosive potential (pH), combustibility, and hazards related to NORM or H_2S. If the nature of the spill presents a significant hazard an evacuation of the Facility will be ordered, as detailed in Section 3.3. An evacuation will be ordered if there is a release of substances with high corrosivity (pH less than 2.0 or greater than 12.5), combustibility (greater than 10% LEL), or high H_2S (concentration of 10 ppm or greater) which impact an area in excess of 25 square feet (5'x5').
2. The employee who first becomes aware of the spill will immediately initiate response actions within the scope of their training to eliminate the source of the release. If possible, the employee

should attempt to minimize the spread of the release and contain the spill utilizing on-site equipment/spill kits (Table 5).

3. Once present at the scene, the EC will direct efforts at addressing the spill and engage with a third-party contractor to remediate the release, collect samples of released materials and impacted media, and assess the extent of resources which may have been impacted by the release (soil, surface water, groundwater, etc.).
4. If the spill is a major or minor release (as defined by 19.15.29 NMAC and described in Section 3.2.2), the EC will notify the NM OCD as detailed in Section 5.0. The Facility will also work with a third-party contractor and the NM OCD to develop a remediation and corrective action plan to address any remaining contamination.
1. Once operations are complete, the EC will ensure proper decontamination of any equipment used to address the spill and replacement of all equipment and materials utilized. Decontamination will be conducted over containment to allow collection of all fluids. The EC will document the release on an incident report form (Attachment 2) and maintain a copy in the facility operating record.
5. All impacted media, including decontamination liquids or absorbent materials utilized for controlling the spill, will be containerized and properly disposed of by a third-party contractor as described in Section 6.0.

3.2.3 Release to Surface Water

Given the location of the facility and the lack of any surface water features within 1,000 feet of the property boundary, the potential for a release into a surface water feature is low. In the event a release significant enough to result in contamination of surface water to occur, Facility personnel will follow the procedure outlined in Section 3.2.2, and will coordinate immediately with a third-party contractor to provide spill response, corrective action, and coordination support to work with NM OCD to prepare an appropriate scope of work to assess any changes to water quality and mitigate impacts. NM OCD will be notified of the spill as outlined in Section 5.0.

3.2.4 Release to Groundwater

Groundwater below the facility is present at a depth of approximately 165 feet below ground surface. In the event of a spill or release to the ground surface, Facility personnel will follow the procedure outlined in Section 3.2.2, and if media outside of secondary containment or impermeable surfaces are impacted (such as soil or native ground), the extent of contamination will be characterized and assessed by a third-party contractor. If investigations to determine vertical extent of contamination within the soil indicate groundwater impacts, the Facility will work with NM OCD to prepare an appropriate scope of work to assess any potential impacts to groundwater and actions needed to correct or mitigate detrimental impacts, including installation of monitoring wells, etc. NM OCD will be notified of the spill as outlined in Section 5.0.

3.2.5 Release to Air

A separate Hydrogen Sulfide Contingency Plan has been developed to address releases to air. Given the nature of the material processed and treated at the Facility, a release to air would likely occur from off-gassing of material delivered to the site, occurring during transfer or after build-up in on-site frac tanks.

The prevailing wind direction was evaluated by reviewing wind rose diagrams prepared by the Midwestern Regional Climate Center for the Carlsbad Municipal Airport, located 40 miles to the west of the facility, as well as the Winkler County Airport, located near Kermit, TX, approximately 40 miles southeast of the facility. Wind rose diagrams are included in Figure 3. The prevailing wind direction at both airports is from the South-Southeast; as such the prevailing winds at the proposed Big Still facility will also assumed to be from the south-southeast.

In the event of a release to air, the following procedures will be implemented by on-site staff:

1. The employee who first becomes aware of the release will immediately notify the EC. If the Primary EC is on site, they will be contacted first. In the event the Primary EC cannot be contacted, the Alternate EC will be contacted. The EC can be notified in person, via telephone, or by radio. The EC will coordinate initial assessment/response in accordance with Table 3 and attempt to characterize the release by utilizing the Facility 4-gas meter or other stationary monitoring equipment. If the nature of the release presents a significant hazard an evacuation of the Facility will be ordered, as detailed in Section 3.3. An evacuation will be ordered if on-site monitoring equipment detects atmospheric combustibility that is greater than 10% LEL, or elevated H_2S at a concentration of 10 ppm or greater. The direction and general strength of wind as determined by the on-site windsocks will be noted to determine direction of travel for the released gases.
2. The employee who first becomes aware of the release will immediately initiate response actions within the scope of their training to eliminate the source of the release by closing valves or sealing openings.
3. Once present at the scene, the EC will direct efforts at addressing the release and engage with a third-party contractor to remediate the release and assess the extent of resources which may have been impacted by the release.
4. If the spill is a major or minor release (as defined by 19.15.29 NMAC and described in Section 3.2.2), the EC will notify the NM OCD as detailed in Section 5.0. The Facility will also work with a third-party contractor and the NM OCD to develop a remediation and corrective action plan to address any remaining contamination.
5. Once operations are complete, the EC will ensure proper decontamination of any equipment used to address the spill and replacement of all equipment and materials utilized. Decontamination will be conducted over containment to allow collection of all fluids. The EC will document the release on an incident report form (Attachment 2) and maintain a copy in the facility operating record.

3.3 Evacuation Plan for Facility Personnel

In the event of an emergency situation, all non-essential facility personnel will be diverted from the facility, and if deemed required by the EC or responding staff, the facility will be evacuated. Imminent or actual dangers that constitute a situation that could require evacuation include:

- A generalized fire or threat of fire that cannot be avoided.
- An explosion or the threat of explosion that cannot be averted.
- A major spill or leak that cannot be readily contained and constitutes a potential threat to human health, welfare, or the environment.

When conditions warrant immediate action, Facility personnel will proceed to the access gate for verbal instructions regarding the type and location of hazard that is present. Verbal information will be supplemented by cellular phone or two-way radio contact. Personnel will then exercise judgment and common sense in using either the primary or secondary evacuation route to exit the Facility. If appropriate, cellular phones will also be used to initiate contact with local authorities. A Site Evacuation Map is provided as Figure 2, and a Medical Center Location Map and driving directions are included as Figure 4. Additional information regarding evacuation procedures is detailed below in Table 4.

TABLE 4
Evacuation Procedures
The Big Still Oil Treatment Facility

In the event of evacuation:
1. Facility personnel will be alerted verbally or contacted using two-way radio or cellular phones.
2. Any on-site delivery vehicles will be diverted away from the emergency location and routed towards the facility exit, if necessary. The facility access gate will be closed to prevent access from any public or delivery vehicles.
3. Operating equipment will be shut down, if appropriate.
4. Personnel will be directed to proceed to the Primary Muster Point at the main facility access gate, which will be the primary designated emergency response coordination location (Figure 2). Identification of any missing persons will be implemented at that time.
5. If the emergency limits access to the main facility entrance gate, personnel will gather at the Secondary Muster Point, located at the southwest corner of the property (Figure 2). Identification of any missing persons will be implemented at that time.
6. Once assembled, personnel will stand by to afford assistance, if and as needed, or evacuate through one of the two access points.

4.0 EMERGENCY EQUIPMENT

Emergency equipment will be made available to all personnel at the Facility. Figure 2 includes a site map with the locations of response equipment. Table 5 below includes a list of on-site emergency equipment present on the facility or within facility equipment – descriptions of each type of equipment are included in the sections below:

TABLE 5
Emergency Equipment
The Big Still Oil Treatment Facility

Equipment Description	Location	Quantity	Purpose
On-Site Equipment			
Fire Extinguisher – ABC Rated, 10 lb	Facility Office	1	Fire Suppression
Fire Extinguisher – ABC Rated, 10 lb	Each Tank Battery Secondary Containment	3	Fire Suppression
Fire Extinguisher – ABC Rated, 10 lb	Facility Vehicles	1	Fire Suppression
Spill Response Kit (55 gallon drum with sorbent materials)	Each Tank Battery Secondary Containment	3	Spill Containment
Shovel	Each Tank Battery Secondary Containment	3	Fire Suppression & Spill Containment
pH Strips	Each Tank Battery Secondary Containment	2	Hazard Characterization
Otis Stationary H2S Monitor (OI-6900)	Central Tank Batteries Secondary Containment	2	Hazard Gas Detection
Windsock	Each Tank Battery	3	Wind Direction
4-Gas Meter	Facility Office	1	4-Gas Meter capable of detecting combustibility (%LEL), H_2S, CO, and O_2
First Aid Kit	Facility Office & Vehicle	2	First Aid
Personal Protective Equipment			
Gloves	Delivery/Facility Vehicle	1	Hand Protection
Hard Hat	Delivery/Facility Vehicle	1	Head Protection
Safety Goggles	Delivery/Facility Vehicle	1	Eye Protection
BW Clip-on H_2S Meter	On-Person	1	H2S gas detection

4.1 Internal and External Communications

Communications at the Facility will be accomplished via cellular telephones and two-way radios. Key site personnel carry two-way radios or cell phones for individual communications and for contacting outside

agencies (e.g., fire department, ambulance, etc.). The two-way radios and cellular phone network will be used daily, and any mechanical difficulties will be promptly addressed.

4.2 Fire Prevention

Portable ABC type fire extinguishers are located at several locations at the facility and in delivery trucks and site vehicles. Fire extinguishers will be maintained in accordance with state and local fire codes and regulations. Shovels are also located near Facility spill kits which can be used to suppress/smother fires with soil or other materials.

4.3 Personnel Protection/First Aid/Safety Equipment

Personal protective equipment (PPE) necessary for daily operations and emergency response will be maintained by individual Facility staff and also included as part of the spill response kit installed at each tank battery. PPE includes, but is not limited to, gloves, vests, safety glasses, ear protection, spill response equipment, H_2S personal monitors, etc. First aid kits are maintained within the facility office and facility vehicles.

Prominent signs are posted at the Facility to identify the location of health and safety equipment and fire extinguishers.

4.4 Spill Response Equipment

The Facility maintains three spill kits on the facility, which are stored near the secondary containment wall at each of the Facility's three tank batteries. The kits include nitrile gloves, googles, an emergency handbook, disposal bags, and absorbent materials including sorbent socks, pads, pillows, and a bag of granular clay material. One shovel is also stored near each spill kit to aid in spill response. The kits are contained within a sealed, clearly labeled 55-gallon drum which can be used to contain and transport response materials after a response.

5.0 NOTIFICATION REQUIREMENTS

If the EC has determined that the incident could threaten human health, welfare, or the environment beyond the limits of the Facility, they will notify local emergency responders, the National Emergency Response Center, NM OCD, and NMED Spill Emergencies hotline at the following phone numbers:

- Local Emergency Agencies/Responders: 911
- NM OCD Main Office: 505.476.3441
- National Emergency Response Center - 24 Hr. Hotline: 800.424.8802
- NMED Spill Emergencies - 24 Hr. Hotline: 505.827.9329

After responding to a incident (fire, spill, release to air, or other emergency), the EC will meet with involved personnel to assess the cause of the incident. The identified causative agent will be removed from the vicinity of the Facility if the possibility of re-ignition or further release exists. Mitigation measures or best management practices appropriate to prevent the incident's recurrence will be developed and implemented.

In the event of a major or minor release as defined by 19.15.29.7 NMAC (Section 3.2.1), the EC will notify the NM OCD District 1 office by completing the online NM OCD Form C-141 within 15 days of discovery of

the release. Information and instructions on submittal of the online C-141 form are included in Attachment 1.

If the release is considered a "major release", the EC will also inform the NM OCD Division 1 office as well as the NM OCD Environmental Bureau Chief as required in 19.15.29.10.A NMAC by utilizing the "Notice of Release" application within the NM OCD online permitting module within 24 hours of discovery of the release. In addition to the NOR, the Facility will provide verbal or email notification. If the incident includes the release of H_2S and requires activation of the H_2S Contingency Plan, the EC will notify the NM OCD within four hours of activation of the plan, in accordance with 19.15.11.16 NMAC. The notification will include information which will be required in the C-141 form, including:

- Facility information and location
- Date of release discovery
- Description and nature of the release, including type, volume, materials, and impact medial
- Initial response and mitigating actions

As the facility is located within privately-owned land, 19.15.29.9.B NMAC is not applicable to the facility and there will be no need to notify state, federal, or tribal authorities.

6.0 STORAGE AND TREATMENT OF RELEASED MATERIALS

Spilled material or substances used to control/absorb materials will be containerized, stored and disposed of in accordance with applicable local, state and federal regulatory requirements. The EC will coordinate with Facility staff and management to ensure that no operations to treat, store, or dispose of additional oilfield waste, which may be incompatible with released material, are performed until all cleanup procedures are complete. During cleanup, the EC will coordinate with emergency response agencies or third-party contractors who may be assisting with cleanup to ensure segregation of any exempt or non-exempt wastes. If required, samples will be collected from containerized material for characterization prior to disposal. Waste removal and transport for disposal will typically be completed by third-party specialized contractors.

7.0 RECORD KEEPING REQUIREMENTS

The Primary EC will be responsible for ensuring that emergency response actions are fully documented; or the Primary EC may designate that the Alternate EC complete documentation requirements. The Incident Report Form (Attachment 2) illustrates the information that will be recorded as a result of an emergency incident and related response action. This form will be signed by both the Primary and Alternate ECs. Copies of the form will be maintained as part of the Facility Operating Record.

8.0 PLAN AMENDMENT

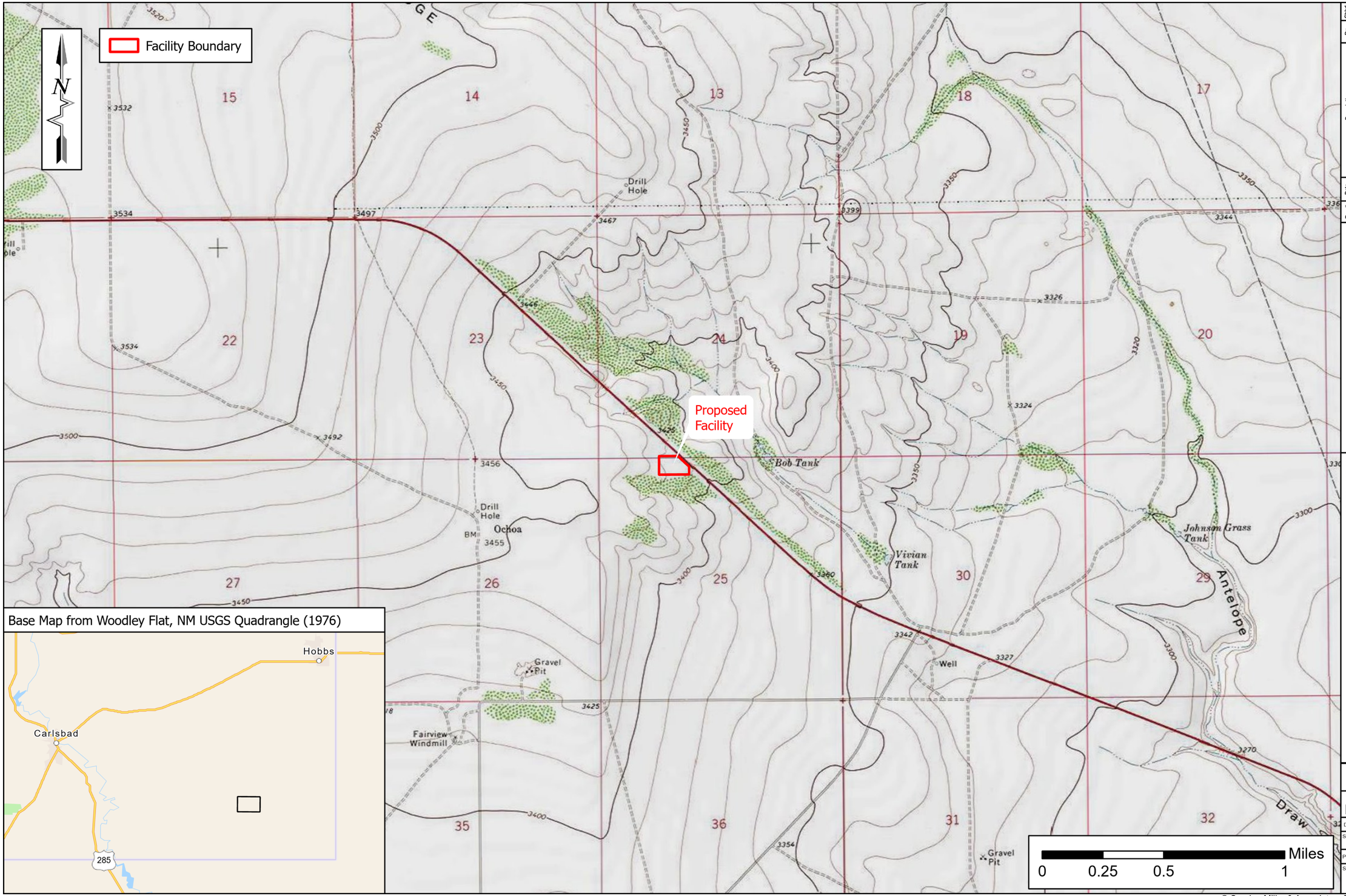
The Primary EC will be responsible for assuring the update or amendment of this Plan within five (5) business days in the event of any of the following:

1. The Facility Permit is revised or modified.
2. The Plan fails in an emergency.

3. Modification to the Facility design, construction, operation, maintenance or other circumstances that changes the potential for fires, explosion, or releases of hazardous waste constituents, or related changes in the appropriate emergency response.
4. The list of ECs changes (Table 1).
5. The list of emergency equipment changes.
6. The list of emergency response agencies and contacts changes (Table 2).
7. Changes in technology or emergency response equipment.
8. Changes to evacuation procedures (Table 4) and/or routes (Figure 3).
9. The designated medical center to be used in the event of an accident changes (Figure 4).

Following amendment, this Plan will be distributed to the New Mexico Oil Conservation Division and each of the interested organizations identified in Table 2 with a cover letter highlighting the substantive changes. The proposed changes will be made in compliance with 19.15.36 NMAC.

FIGURES



Rev #	Date	Description	By	Chkd

SMA
Souder, Miller & Associates
Engineering • Environmental
Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

VICINITY MAP ON USGS QUADRANGLE
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 12/20/2024

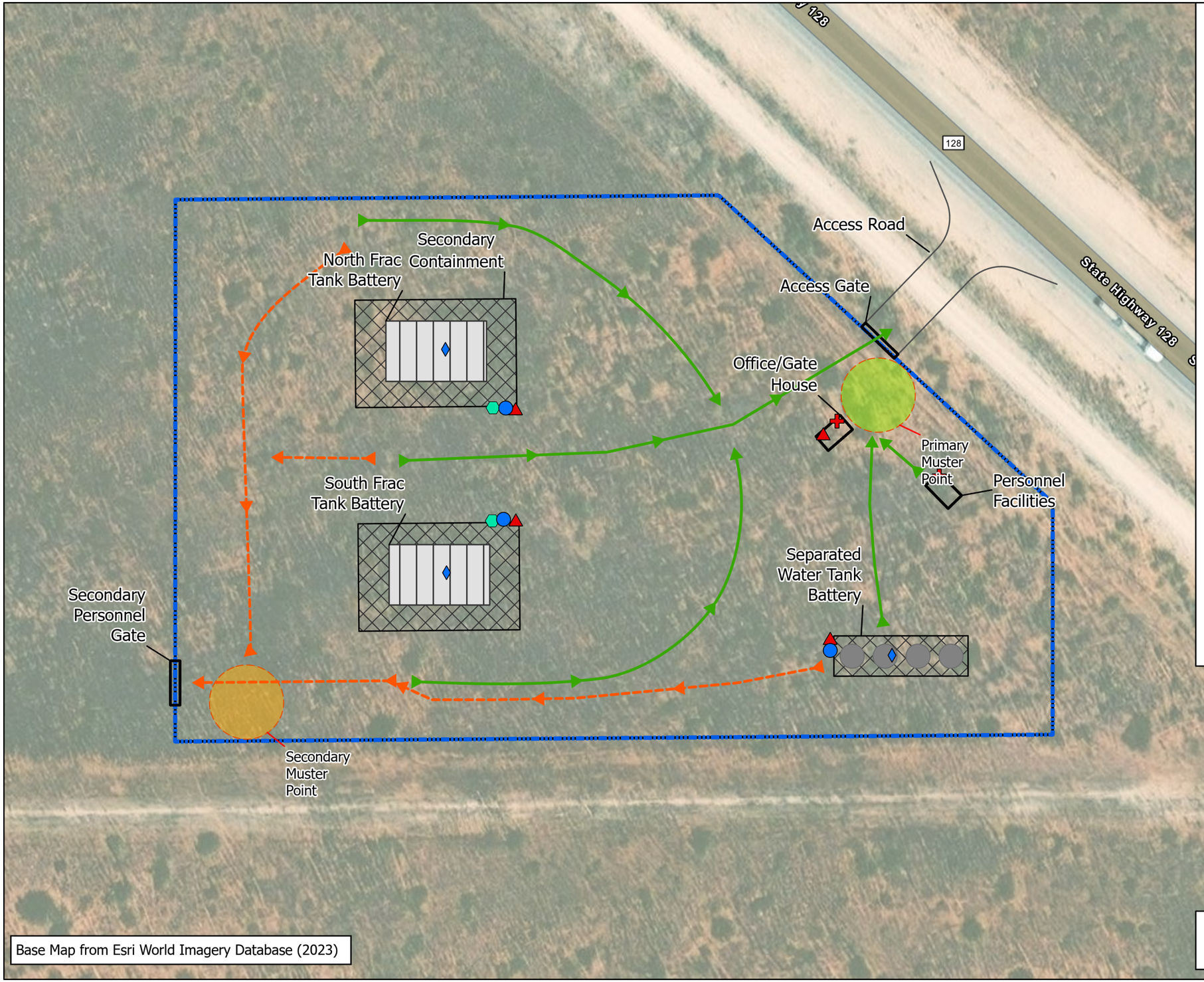
Scale: Horiz: - 1" = 2,000'
Vert: -

Project No: 1C33668

Sheet: FIGURE 1

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit



Base Map from Esri World Imagery Database (2023)

N

Legend

Fence
Road

Emergency Equipment

Fire Extinguisher
H2S Monitor
Spill Response Kit
First Aid Kit
Wind Sock

Muster Points

Primary Muster Point
Secondary Muster Point

Evacuation Route

Primary Evacuation
Secondary Evacuation

0 38 75 150 Feet

Rev #	Date	Description	By	Chkd

SMA
Souder, Miller & Associates
Engineering ★ Environmental
Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

EMERGENCY EQUIPMENT AND EVACUATION ROUTES THE BIG STILL WASTE FACILITY LEA COUNTY, NM

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 4/15/2025

Scale: Horiz: 1" = 75'
Vert: -

Project No: 1C3688

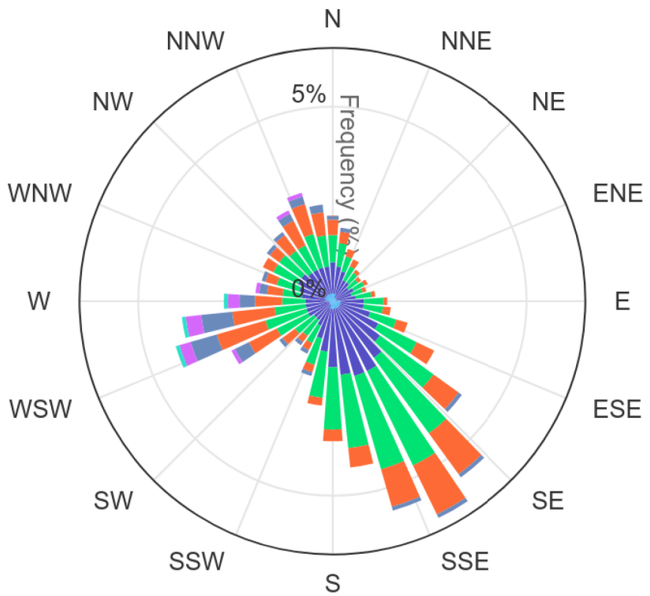
Sheet: FIGURE 2

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit

CAVERN CITY AIRPORT (NM) Wind Rose

September 01, 1942 - November 08, 2024
Sub-Interval: January 1 - December 31, 0 - 24

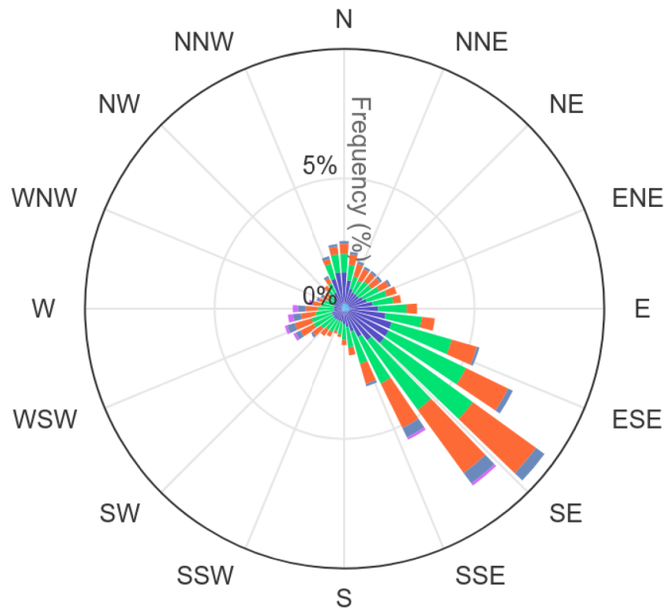


Wind Speed (mph)

- 1.3 - 4
- 4 - 8
- 8 - 13
- 13 - 19
- 19 - 25
- 25 - 32
- 32 - 39
- 39 - 47
- 47 -

WINKLER COUNTY AIRPORT (TX) Wind Rose

September 01, 1942 - November 08, 2024
Sub-Interval: January 1 - December 31, 0 - 24



Wind Speed (mph)

- 1.3 - 4
- 4 - 8
- 8 - 13
- 13 - 19
- 19 - 25
- 25 - 32
- 32 - 39
- 39 - 47
- 47 -

Click and drag to zoom

Wind Rose Diagrams from Midwestern Regional Climate Center (2024)

Rev #	Date	Description	By	Chkd

SMA
Souder, Miller & Associates
Engineering ■ Surveying ■ Environmental
Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

WIND ROSE DIAGRAMS
CARLSBAD & WINKLER CO. AIRFIELDS
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

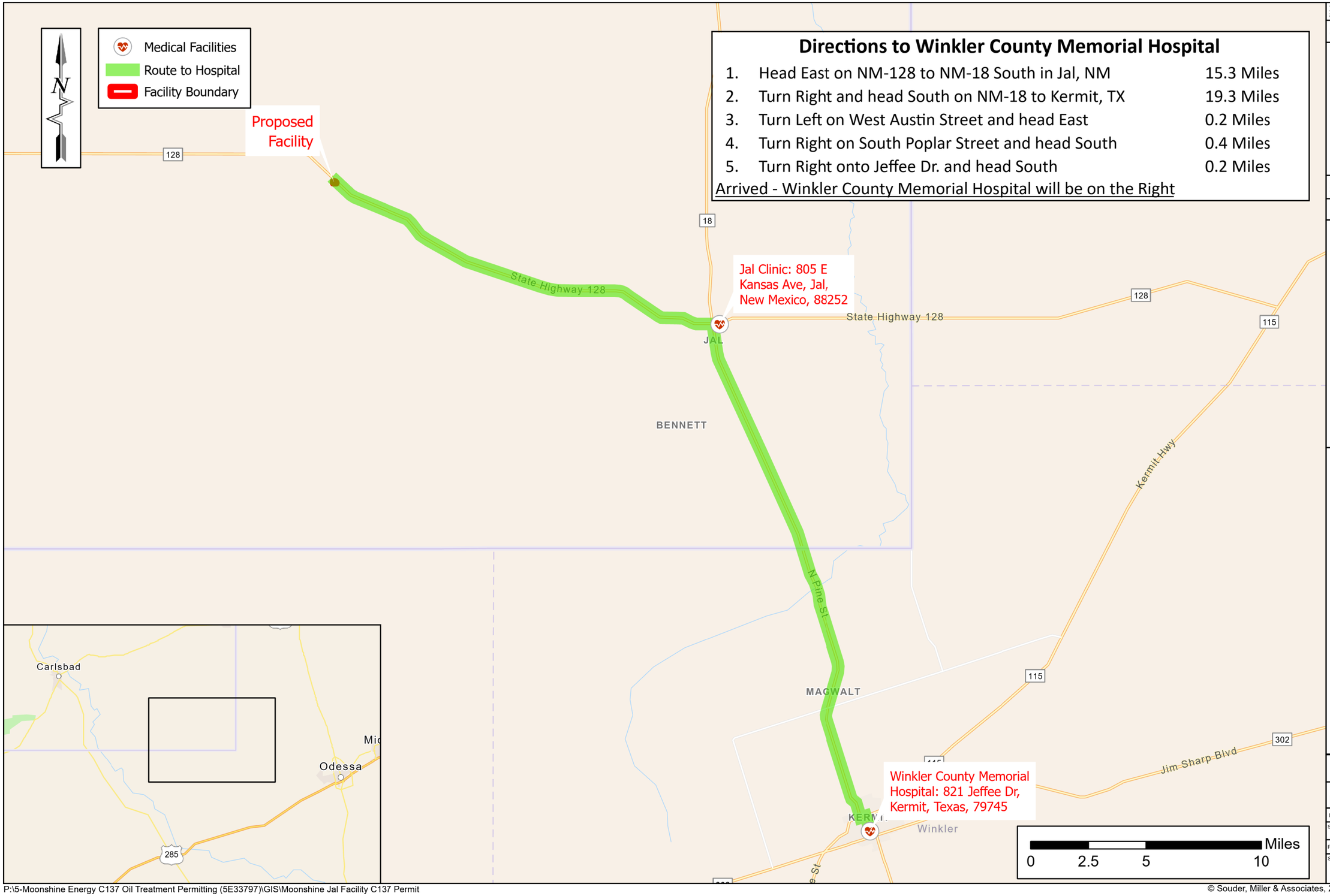
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 1/10/2025
Scale: Horiz: - Vert: -
Project No: 1C33668
Sheet: FIGURE 3

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit



Directions to Winkler County Memorial Hospital

1.	Head East on NM-128 to NM-18 South in Jal, NM	15.3 Miles
2.	Turn Right and head South on NM-18 to Kermit, TX	19.3 Miles
3.	Turn Left on West Austin Street and head East	0.2 Miles
4.	Turn Right on South Poplar Street and head South	0.4 Miles
5.	Turn Right onto Jeffee Dr. and head South	0.2 Miles

Arrived - Winkler County Memorial Hospital will be on the Right

Rev #	Date	Description	By	Chkd

SMA
Souder, Miller & Associates
Engineering ■ Environmental
Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

DIRECTIONS TO NEAREST MEDICAL FACILITIES
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 12/20/2024

Scale: Horiz: 1" = 20,833' Vert: -

Project No: 1C33668

Sheet: FIGURE 4

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit

ATTACHMENT 1

C-141 Notification Instructions and Documentation

State of New Mexico
Energy, Minerals and Natural Resources Department

NOTICE

Process Updates re: Submissions of Form C-141 Release Notification and Corrective Actions.

12/01/2023

The OCD (Oil Conservation Division) is in the process of updating its current OCD Permitting C-141 incident process and procedures that have largely been unchanged since the implementation of the 2018 release rule. The three current available incident statuses are: Closure Not Approved, Closure Approved, and Cancelled. OCD has determined that these established statuses do not reflect actual practice and project in the field or provide operators and the public with the ability to quickly and properly evaluate the status of an unauthorized release.

The C-141 form is used by Operators to notify, request approvals, and communicate the progress of unauthorized Oil & Gas releases pursuant to 19.15.29 NMAC. The update to OCD Permitting will provide better alignment with the provisions of 19.15.29 NMAC, digitize the C-141 form, and incorporate both into OCD permitting. Today's update will include the addition of 16 new incident statuses and a completely digitized version of the C-141. The new incident procedures will provide more accurate management and tracking of incident statuses throughout the lifecycle of a release. The update released today is the first of several phases and likely the biggest change to current operations. Future phases will focus on refinement and include new submission pipelines for C-141 applications as they are developed, which will allow OCD to prioritize applications by type.

The document posted on the EMNRD Website titled "Procedures for Implementation of the Spill Rule" released September 6, 2019, is no longer valid as the release of this Notice and is replaced by this document.

With today's OCD Permitting release, and in anticipation of upcoming developments, certain aspects of the OCD Incident review processes will be adjusted without altering the existing OCD policy. The first major change is that Form C-141 will now be completely digital and contained within OCD Permitting. Operators will no longer need to attach a signed copy to their C-141 applications. The new digital C-141 consists of a series of questions that the Operator is required to answer, in addition to attaching supporting documents. The questions were historically found in the attached documents. The information gathered from the questions will assist OCD in prioritizing and efficiently reviewing incident applications.

Pending C-141 submittals that are currently under OCD review do not need to be resubmitted. OCD will continue to process pending C-141 using the current C-141 method. After processing, the incident will be

given the proper status based upon the submission. New or subsequent C-141 submissions shall adhere to the new revised process.

It is important to note that, as of this release, OCD does not intend to retrospectively review incidents marked with a "Closure Approved Status" from 2018 to the present. These incidents will be granted a legacy closure status of "Incident Closure Approved". Although there are no immediate plans to revisit closed incidents, Operators are reminded to adhere to any rules or conditions of approval pertaining to deferrals, reclamation, or revegetation. OCD reserves the right to evaluate these sites in the future.

Below are a few examples of the proposed additional detailed statuses to be implemented and may be changed during future development.

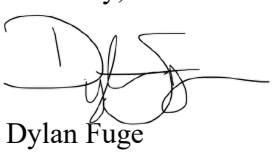
- Notification/ Initial Stage: 19.15.29.10 NMAC
  - Notification Received, Pending Initial C-141 from Operator.
  - Initial C-141 Accepted, Pending Submission of Site Char & Remediation Plan OR Remediation Closure Report from the operator.

- Remediation Stage: 19.15.29.11 & 12 NMAC
  - Site Characterization & Remediation Plan Submitted, Pending OCD Review.
  - Site Characterization & Remediation Plan Approved, Pending Remediation Closure Report from Operator.
  - Remediation Deferred, Pending Remediation Closure Report from Operator. **(Note: releases will not be closed in the OCD system while in this stage)**
  - Remediation Closure Report Approved, Pending Reclamation Report from Operator. **(Note: releases will not be closed in the OCD system while in this stage)**

- Restoration/Reclamation/Re-vegetation Stage: 19.15.29.13 NMAC
  - Reclamation Report Received, Pending OCD Review. **(Note: releases will not be closed in the OCD system while in this stage)**
  - Re-vegetation Extension approved, Pending Re-vegetation report from Operator.
  - Restoration Complete **(Release will be considered "closed" in this status)**
  - Incident Closure Approved **(For historic releases)**

The redesign is currently in the first phase of development and the examples provided in this notice and attached documents are subject to change. Additional notices will be posted on the Divisions website prior to implementation. If you have any questions regarding this notice, please email the OCD Environmental general e-mail box at ocd.enviro@emnrd.nm.gov with the subject line of Notice: Digital C-141 and Incident Status Change.

Sincerely,



Dylan Fuge

Deputy Secretary

Oil Conservation Division Director (Acting)

Procedures for Implementation of the Digital C-141 and the release rule (19.15.29 NMAC).

This document serves as a comprehensive guide for OCD Environmental Bureau Staff and regulated Operators outlining the implementation of the digital C-141, updated incident statuses, and formalizing the existing release rule (19.15.29 NMAC) as of August 14, 2018. This updated version aims to address emerging issues and ensure uniform responses fostering consistency in our approach to rule implementation.

Definitions

Non- waste Containing Material:
Material that does not contain trash/debris and is less than 600 mg/kg chlorides, or background levels whichever is greater; 100 mg/kg TPH; 50 mg/kg BTEX; and 10 mg/kg Benzene. Soils that have been treated, remediated, or land farmed and meet the above concentrations are acceptable. Soil blending or mixing of contaminated soils with cleaner soils for the purpose of reducing chloride/hydrocarbon concentrations is not acceptable.

Remediation:
Remediating impacted soil to Table I Standards or other applicable remediation closure standards by completing an OCD approved Remediation Plan.

Reclamation:
Perform backfilling, compacting, and stabilizing to prevent erosion and ponding of water in impacted areas and reclaiming those areas to contain non- waste containing material based on final land use. OR a soil cover approved by federal, state, or tribal agencies on lands managed or owned by those agencies that provide equal to or better protection of fresh water, human health, or the environment.

Revegetation:
Uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds OR a vegetative cover approved by federal, state, or tribal agencies on lands managed or owned by those agencies that provide equal to or better protection of fresh water, human health, or the environment.

Restoration:
When an unauthorized release has been remediated, reclaimed, and revegetated to a condition that existed prior to the release or their final land use.

Significant watercourse:
A watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse.

Unstable Area:
A location that is susceptible to natural or human-induced events or forces capable of impairing the integrity of some or all a division-approved facility's structural components. Examples of unstable areas are areas of poor foundation conditions, areas susceptible to mass earth movements, and karst terrain

areas where karst topography is developed because of dissolution of limestone, dolomite, or other soluble rock. Characteristic physiographic features of karst terrain include sinkholes, sinking streams, caves, large springs, and blind valleys.

Watercourse:
A river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water.

Variance Request:
The responsible party may file a written request for a variance for any requirement of 19.15.29 NMAC with the appropriate division district office. A variance requested in accordance with 19.15.29.14 NMAC must provide equal or greater protection of fresh water, public health, and the environment.

C-141 Form Family Application Types

Notice of Release (NOR)
The NOR is a notification that allows the Operators to quickly create an incident in OCD Permitting and to meet the major release reporting requirements.

Operators will use this application when they:

- Must create an incident number in OCD Permitting for all reportable releases.
- Must report a major release which meets the requirements of 19.15.29.10.A within 24 hours of discovery.

  Pursuant to 19.15.2.12.B NMAC this will be the preferred method to report major releases. Be advised if an operator chooses to call in the release or send an e-mail, they will still be required to fill out this NOR as a condition of approval, as it is essential to OCD's records.

This notification does NOT replace the required initial C-141 application as it is designed to collect the bare minimum of information to quickly communicate with the OCD.

See ***Figure 1*** for a step-by-step guide to uploading a Notice of Release.

Notice of Legacy Release (NOR)
The Notice of Legacy Release application type is designated based upon the answers provided in the completion of the NOR application. While completing a NOR if the user enters a date of discovery prior to 8/15/2018, the notification type will automatically change to a Notice of Legacy Release.

Operators will use this application when:

- Create an incident number in OCD Permitting for a release prior to 8/15/2018.

This notification does NOT replace the required initial C-141 application as it is designed to collect the bare minimum of information to quickly communicate with the OCD.

See ***Figure 1*** for a step-by-step guide to uploading a Notice of Release.

Release Corrective Action (C-141)

The C-141 application type is a multipurpose application that allows Operators to submit the different C-141 subtypes (described below) based upon the answers provided in the applications. The applications cost $150 and Operators have the ability to move through the entire C-141 life cycle based upon the information provided. For example, operators can submit an initial C-141 and a Remediation Closure Report in the same application.

Operators will use this Application to submit:

- Initial C-141
- Site Characterization and Remediation Plan
- Deferral Request
- Remediation Closure Report
- Reclamation Report
- Re-vegetation Report

Initial C-141 (C-141-v-initial)

This C-141 application type is designated based upon the answers provided in the completion of the Release Corrective Action (C-141) multipurpose application. C-141 submissions that do not request a review of a remediation plan will be classified as an Initial C-141.

Operators will use this application to submit:

- An Initial C-141 confirming the data provided in the NOR within 15 days of discovery of an authorized released pursuant to 19.15.29.10.A(2) & 19.15.29.10.B NMAC.

See ***Figure 2*** for a step-by-step guide to uploading an Initial C-141 application.

Site Characterization and Remediation Plan (C-141-v-Plan)

This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Site Characterization and Remediation Plan.

Operators will use this application to submit:

- A Site Characterization and Remediation Plan C-141 within 90 days* of discovery of an unauthorized released pursuant to 19.15.29.11.B NMAC
- A Remediation Closure Report within 90 days* of discovery of an authorized release pursuant to 19.15.29.12.B(1) NMAC.

See ***Figure 3*** for a step-by-step guide to uploading a Site Characterization and Remediation.

* 90 days are for sites that have not been granted an extension or any other Division approved timeframe.

Note Dig and Haul remediations are the ONLY remediation approach that is preapproved by the OCD. Any other type of remediation commenced by the operator without Division approval may result in additional remediation.

Notification of Sampling (C-141N)

The Notification of Sampling is a notification application that allows the Operators to notify the OCD of any confirmation closure sampling. This application is not for the use of submitting sampling plans and any such plans received in this application type will not be reviewed or accepted.

Operators Will use this application to:

- Notify the OCD two (2) business days prior to conducting final sampling pursuant to 19.15.29.12.D(1)(a) NMAC.

  Pursuant to 19.15.2.12.B NMAC this will be the preferred method for reporting all sampling events. Be advised if an operator chooses to call in the final sampling notification or send an e-mail, they will still be required to fill out this Notification as a condition of approval, as it is essential to OCD's records.

Operators may request a variance to the two (2) business day notice of sampling via email however, a notification application must also be submitted for that sampling event. Failure to complete the notification of confirmation sampling may result in the samples not being accepted for closure.

See ***Figure 4*** for a step-by-step guide to uploading a Notification of Sampling.

Notification of Liner Inspection (C-141L)
The Notification of Liner Inspection is a notification application that allows the Operators to notify the OCD of any integrity Liner confirmation inspections.

Operators will use this Application to:

- Notify the OCD two (2) business days prior to conducting a liner integrity inspection pursuant to 19.15.29.11.A(5)(a)(ii) NMAC

  Pursuant to 19.15.2.12.B NMAC this will be the preferred method to reporting all liner inspection events. Be advised if an operator chooses to call in the liner inspection notification or send an e-mail, they will still be required to fill out this Notification as a condition of approval, as it is essential to OCD's records.

Operators may request a variance to the two (2) business day notice of Liner inspection via email however, a notification application must also be submitted for that inspection event. Failure to complete the notification of Liner inspection may result in the inspection not being accepted for closure.

See Figure 4 for a step-by-step guide to uploading a Notification of Liner Inspection.

Remediation Closure Report (C-141-v-Closure)
This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Remediation Closure Report.

Operators will use this Application to submit:

- A Remediation Closure Report within 90 days* of discovery of an authorized release pursuant to 19.15.29.12.B(1) NMAC.

See ***Figure 5*** for a step-by-step guide to uploading a Remediation Closure Report.

* 90 days are for sites that have not been granted an extension or any other Division approved timeframe.

Reclamation Report (C-141-v-Reclmation)
This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Reclamation Report.

Operators will use this Application to submit:

- A Reclamation Report pursuant to 19.15.29.13.D & 19.15.29.13.D(1) NMAC.

See ***Figure 6*** for a step-by-step guide to uploading a Reclamation Report.

Re-Vegetation Report (C-141-v-Revegetation)
This C-141 application type is a subtype of the Release Corrective Action (C-141) multipurpose application. This form is not submitted independently and is a C-141 submission type that has a request to review a Reclamation Report. The Applications cost $150 to submit.

Operators will use this Application to submit:

- A Reclamation Report pursuant to 19.15.29.13.D & 19.15.29.13.D(1) NMAC.

See ***Figure 7*** for a step-by-step guide to uploading a Remediation Closure Report.

Cancellation Request (C-141C)
The Cancellation Request application allows the Operators to cancel incidents that were created in error. This application does not require a submission fee.

- Operators will use this application when they need to Cancel an incident because:
  - Association API#, Facility # were incorrectly recorded.
  - Locational Data, Unit Letter, Section, Township, Range, Latitude and Longitude incorrectly recorded.
  - Duplicate incidents were reported.
  - False incident or incident was not reportable.
  - Venting/Flaring event was incorrectly reported on C-141 and needs to be reported on C-129.
  - Responsible operator incorrectly reported.

Alternative Remediation Report (C-141AR)
The Alternative Remediation Report Application allows operators to submit reports that are required from an approved remediation plan. To access this submission Users, need to navigate to the OCD All Forms section.

Operators Will use this Application when:

- To submit Scheduled Reports of Remediation activities.

This application is only for submissions of scheduled reports of remediation activities. Any request to change Remediation Plans or Request for Remediation closure will be rejected.

Application Statuses

For clarification, when discussing statuses there are two different status types in OCD Permitting, applications statuses and Incident statuses.

Application Statuses are given to individual applications like C-103 or C-141 and pertain to 1 specific submission. Applications that have a fee associated to them have also have a Purchase Order # (PO#). All applications have an Application ID commonly referred to as an "App ID" or "Action ID." Applications can be searched by left clicking Operator Data and selecting Action Status. Below are all the possible application statuses.

Draft (DRAFT)
An application has been created by a user and has not been submitted to the OCD for review. Users can return to this application at any time and edit the details. To remove a draft application from your list, users can delete the application by clicking the blue Delete button.

Pending Payment (PPAYM)
This is an application in which the user has clicked the "Make Payment" button, and the payment was unsuccessful or pending reconciliation. These applications cannot be edited or returned to and will be automatically rejected or reconciled from the system within 7 days.

Under OCD Review (SUBMITTED)
The application has successfully been submitted to the OCD and is pending reviewing.

Approved (APPROVED)
The application has been reviewed by the OCD and has been approved. The information in the application has been accepted into the OCD database and image files/attachments are sent to imaging for record keeping.

Rejected (REJECTED)
The application has been reviewed by the OCD and has been rejected. The information in the application will not be accepted into the OCD database and image files/attachments will not be sent to imaging for record keeping.

New Incident Statuses

Just like Application Status, Incidents have their own unique status. Incidents are always identified in OCD permitting by an incident number that will start with the letter N and will be proceeded typically by 3 letters and 10 numbers Example: NAPP2331233024. Incident statuses automatically update when received and the approved dates are added to the Incident Dates section. This process is largely automated and is driven by C-141 Application submissions. Incidents statuses are not affected by rejected applications. The incident status will always display the furthest submitted or approved status.

Example: An incident has an approved Site Characterization and Remediation Plan. A C-141 application requesting remediation closure is submitted and subsequently rejected. The status of this incident will be *Remediation Plan Approved, Pending submission of Remediation Closure Report* from the operator because the last approved application was the remediation plan C-141 application.

Notification Received, Pending OCD Review:
Displayed when the Operator has submitted a Notice of Release (NOR) Application and it is currently being reviewed by the OCD.

Notification Accepted, Pending submission of Initial C-141 from the operator:
Displayed when the Operator has submitted a Notice of Release (NOR) Application and it has been approved by the OCD.

Initial C-141 Received, Pending OCD Review:
Displayed when the Operator has submitted an initial C-141 Application, and it is currently being reviewed by the OCD.

Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator:
Displayed when the Operator has submitted an initial C-141 Application, and it has been approved the OCD.

Remediation Plan Received, Pending OCD Review:
Displayed when the Operator has submitted a Site Characterization & Remediation plan C-141 Application, and it is currently being reviewed by the OCD.

Remediation Plan Approved, Pending submission of Remediation Closure Report from the operator:
Displayed when the Operator has submitted a Site Characterization & Remediation plan C-141 Application, and it has been approved by the OCD.

Deferral Request Received, Pending OCD Review:
Displayed when the Operator has submitted a Deferral request C-141 Application, and it is currently being reviewed by the OCD.

Deferral Request Approved, Pending submission of Remediation Closure Report from the operator:
Displayed when the Operator has submitted a Deferral request C-141 Application, and it has been approved by the OCD.

Remediation Closure Report Received, Pending OCD Review:
Displayed when the Operator has submitted a Remediation Closure request C-141 Application, and it is currently being reviewed by the OCD.

Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator:
Displayed when the Operator has submitted a Remediation Closure request C-141 Application, and it has been approved by the OCD.

Reclamation Report Received, Pending OCD Review:
Displayed when the Operator has submitted a Reclamation Report C-141 Application, and it is currently being reviewed by the OCD.

Reclamation Report Approved, Pending submission of Re-vegetation Report from the operator:
Displayed when the Operator has submitted a Reclamation Report C-141 Application, and it has been approved by the OCD.

Re-vegetation Report Received, Pending OCD Review:
Displayed when the Operator has submitted a Re-vegetation Report C-141 Application, and it is currently being reviewed by the OCD.

Re-vegetation Report Approved, Restoration Complete:
Displayed when the Operator has submitted a Re-vegetation Report C-141 Application, and it has been approved by the OCD. This status indicates that no further action is required by the Operator.

Legacy Incident Status.

Incident Closure Approved:
Displayed when the incident was in the historic “Closure Approved” status prior to December 1, 2023. Operators are still required to follow any Conditions of Approval or reclamation requirements that were approved.

Closure Not Approved, Pending submission of C-141 from the operator:
Displayed when the incident was created prior to December 1, 2023 and the incident does not have any pending applications for OCD review. This status is a default status if the Division cannot determine a status due to missing information. This status will change and follow the new statuses when the Operator submits an application or if any incident dates are manual added by the OCD.

C-129 Incident Status.

C-129 Venting and Flaring Incident status were also affected by the new incident changes. The following are the new status for incidents created by C-129 submissions only.

Notification Accepted, Pending Submission of Amended C-129 from Operator:
Displayed when the User has submitted a Notice of Major Venting and Flaring (NOMVF) and is required to submit a C-129A to complete reporting within 15 days. See December 7, 2021 C-129 Guidance document for additional information.

Initial C-129 Accepted, Operator Required to follow Monthly/annual Waste Rule Reporting Requirements.:
Displayed when the User has submitted a complete C-129. No additional action is required for this incident however, Users are required to follow C-115B and Annual certification Reporting requirements. See December 7, 2021 C-129 Guidance document for additional information.

Amended C-129 Accepted, Operator Required to follow Monthly/annual Waste Rule Reporting Requirements.:
Displayed when the User has submitted an Amended C-129. No additional action is required for this incident however, Users are required to follow C-115B and Annual certification Reporting requirements. See December 7, 2021 C-129 Guidance document for additional information.

Cancelled:
Displayed when the User has submitted a cancelation C-129C No additional action is required for this incident. See December 7, 2021 C-129 Guidance document for additional information.

Frequently Asked Questions

I. DETERMINING DEPTH TO GROUNDWATER:

A. The remediation levels provided in Table I are largely dependent upon depth to groundwater. As such, the OCD focuses upon depth to water estimation. As written, 19.15.11(A)(2) NMAC allows for various means of determining depth to groundwater. If nearby wells are used, it is preferable if they are situated within ½-mile of the release, the water level information is no more than 25 years old, and well construction information is provided. If the water level information does not meet these criteria, the OCD may require boring to a limited depth for verification. If the operator has applicable information which does not meet the above preference, OCD will review it on a case-by-case basis to determine if it is acceptable.

B. If the water well information is representative of a confined aquifer (often described as "artesian"), the depth to water in the well will be considered the depth to the bottom of the upper confining layer, not the observed water level in the well.

C. It is important to note that wells installed for water supply purposes may not be screened across shallower, less-productive zones. The less-productive zones might contain protectable water.

D. Operators are still required to provide depth to ground water determinations even if a criteria like "High Karst" automatically requires the most stringent remediation requirements.

II. VOLUME CALCULATIONS:

A. Responsible parties have asked why the new form C-141 requires volume calculations and why there is a question on the release notification form regarding the concentration of chloride in the produced water. Under 19.15.29.11(A)(5)(c) NMAC, the vertical extent of chloride contamination must be delineated to less than 600 mg/kg even when the depth to groundwater is between 50 and 100 feet if any produced water released contains more than 10,000 mg/kg of chloride and the volume released is either unknown or more than 200 barrels of unrecovered water. The volume released can be accomplished in any number of ways, but it must be reasonable. Otherwise, the OCD will consider the volume as unknown, and the responsible party must delineate accordingly.

1. It is important to note that this does not affect the remediation requirements under Table I, only the site characterization limits.

B. Remediation and reclamation surface area/volume calculations are used to assist OCD in determining deferrals, variances, and compliance.

III. RELEASE DELINEATION:

A. Horizontal and vertical delineation, as required in 19.15.29 NMAC, must be completed to both the Remediation Standards of Table I and the Reclamation requirements of 19.15.29.13 NMAC. This is to ensure that the release did not migrate to areas no longer reasonably needed for production or subsequent drilling activities and to identify areas/volumes that are required to be reclaimed. Deferrals will not be considered without complete delineation.

IV. LINERS USED AS A REMEIDATION APPROACH:

A. Synthetic liners that are placed on top of contamination as a remediation variance in an effort solely to ensure contamination doesn't migrate further is not equal or better protection, as the contamination will remain in place. **Variances with a liner request solely to reduce cleanup will be denied**.

B. OCD may also require landowner concurrence for any variance request to permanently leave contamination in place.

V. REMEDIATION OF AREAS REASONABLY NEEDED VS AREAS NOT REASONABLY NEEDED:

A. All areas, regardless of if they are in an area reasonably needed for production operations or subsequent drilling operations, must be remediated to the remediation requirements in Table I of 19.15.29 NMAC as soon as possible.

B. Only the areas immediately under or around production equipment where remediation could cause a major facility deconstruction may be granted a deferral of remediation. The area must be fully delineated and cannot pose an imminent risk.

1. Major facility deconstruction typically involves concrete poured pads, structures, engineered designed facilities that include automation/electrical lines, sprayed in liners, etc. OCD will review each deferral request on a case-by-case basis.

VI. RECLAMATION OF AREAS REASONABLY NEEDED VS AREAS NOT RESONABLY NEEDED:

A. Reclamation of areas that are NOT reasonably needed for production operations or subsequent drilling operations, must be reclaimed as soon as possible following remediation.

B. Reclamation of areas that are still reasonably needed for production operations or subsequent drilling operations are NOT required to be reclaimed immediately following remediation. These areas are required to be fully delineated, compacted, covered, paved or otherwise stabilized in a manner that minimizes dust and erosion.

1. Once these areas are no longer reasonably needed, they must be reclaimed within 90 days. This normally occurs at plugging & abandonment or during a major facility deconstruction.

VII. REMEDIATION CLOSURE SAMPLING PLANS:

A. If a responsible party wishes to remediate a spill within 90 days of its discovery without submitting a remediation plan, the closure samples must reflect the gathering of composites representative of no more than 200 square feet per composite sample per 19.15.29.12(D)(1)(c) NMAC. Alternative sampling plans will only be allowed with written permission from the OCD. In accordance with 19.15.29.12(D)(1)(b) NMAC, there are no listed standards as to what a responsible party can base an alternative sampling plan upon. Therefore, the OCD may request justifications or methods used in constructing the plan such that an appropriate decision can be made. OCD staff can provide verbal approval, however, it must be followed up in writing, such as in an email.

VIII. REMEDIATION CLOSURE SAMPLING NOTICE & LINER INSPECTION NOTICES:

A. The responsible party is required to provide notice two (2) business days prior to final sample collection or liner inspections pursuant to 19.15.29.12.D(1)(a) and 19.15.29.11.A(5)(a)(ii) NMAC.

B. If a responsible party determines the release site may meet remediation closure standards during delineation activities and wish to use those samples for remediation closure, the responsible party must provide proper two (2) business day notice to the OCD pursuant to 19.15.29.12 NMAC.

IX. BACKGROUND SAMPLES:

A. The rule speaks of "background" chloride concentrations in three places: 19.15.29.11(A)(5)(c) NMAC, regarding unknown or large volume releases; as a footnote to Table I; and in 19.15.29.13(D)(1) NMAC regarding reclamation. When obtaining information to determine background limits, a grab, not composite, sample(s) should be gathered in endemic areas undisturbed by oil and gas activities, nominally uphill from the release area, no closer than 50 feet but no farther than 100 feet from the lateral and horizontal extents of a release's impact or disturbed areas. The background sampling should be representative of the entire horizontal and vertical extent of the release.

B. There are no natural background levels for TPH, BTEX, or Benzene.

X. GROUND WATER IMPACTS:

A. The regulatory oversight of all releases is initially covered under 19.15.29 NMAC. However, once a determination is made that groundwater or surface water has been impacted, corrective action is carried out under the provisions of 19.15.30 NMAC. These provisions potentially require the development of Stage 1 (investigation) and Stage 2 (remediation) abatement plans. There are also requirements for public notice.

B. Furthermore, 19.15.30 NMAC does not have numeric cleanup levels for contaminated soils. As written:
"The responsible person shall abate the vadose zone so that water contaminants in the vadose zone will not with reasonable probability contaminate groundwater or surface water in excess of the standards in Subsections B and C of 19.15.30.9 NMAC, through leaching, percolating or other transport mechanisms, or as the water table elevation fluctuates." (19.15.30.9(A) NMAC).

C. 19.15.30.9(B) and (C) NMAC refer to standards found in the Water Quality Control Commission regulations; 20.6.2 and 20.6.4 NMAC.

XI. FEES:

A. The new fees legislation took effect July 1, 2019, and requires a $150 filing fee to accompany each C-141 submission. This includes any submittal of a digital C-141, including but not limited to: Initial C-141s, Site characterization & Remediation plans, Remediation Closure Reports, Reclamation Reports, and Revegetation reports. Requests and notifications made separate from the C-141 do not require a fee, this includes but is not limited to: separate alternative sampling plans, notifications, cancelations, alternative remediation reports.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

Log into OCD Permitting and ensure that you are Logged into the Correct OGRID if you have access to multiples. It is very important that the correct OGRID is selected as the Responsible Party of the incident will be assigned to the reporting OGRID.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [NOTIFY] Notification of Release

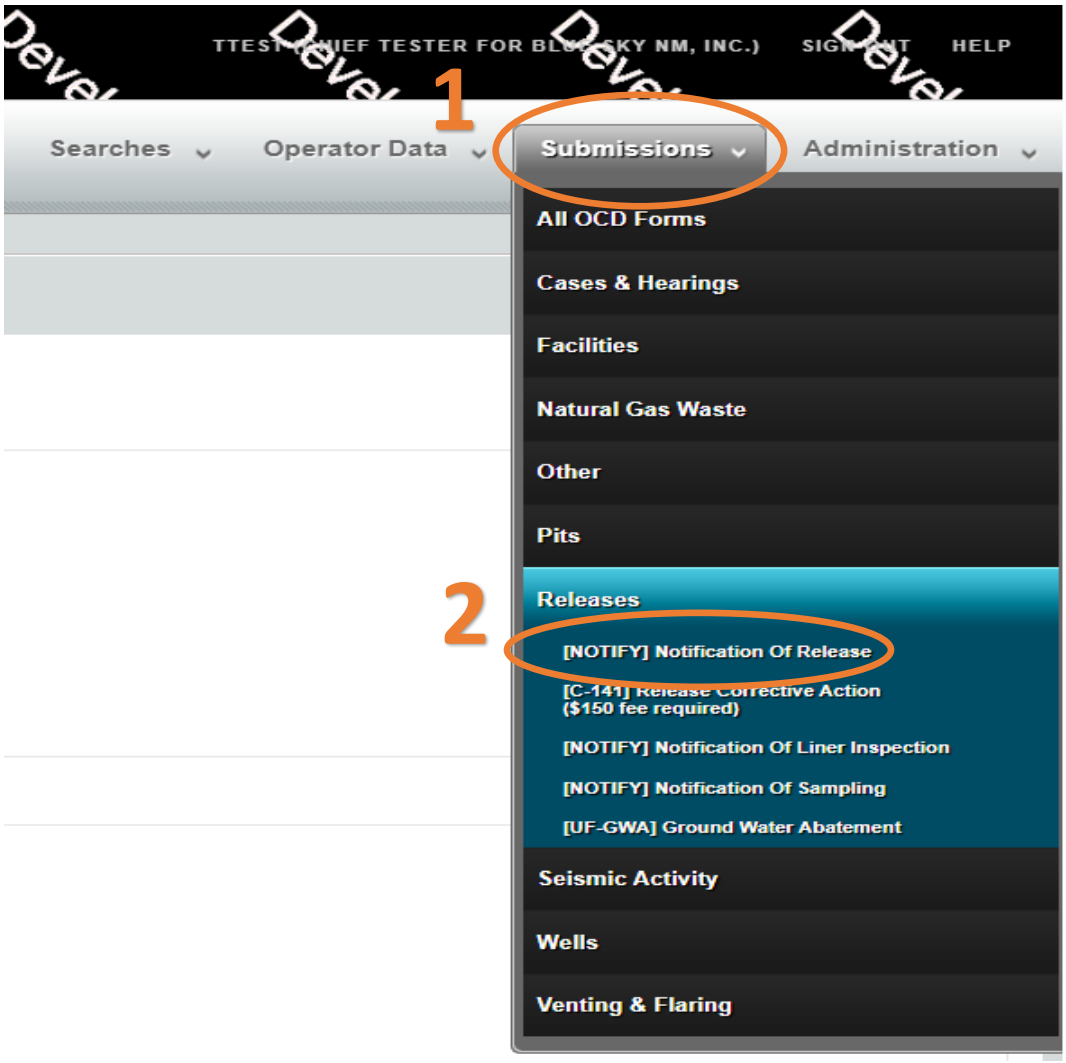


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

On this Permitting page Users can review the status of all previous submitted NOR Applications from their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new Notice of Release Application scroll down and left click on the New NOR Application button.

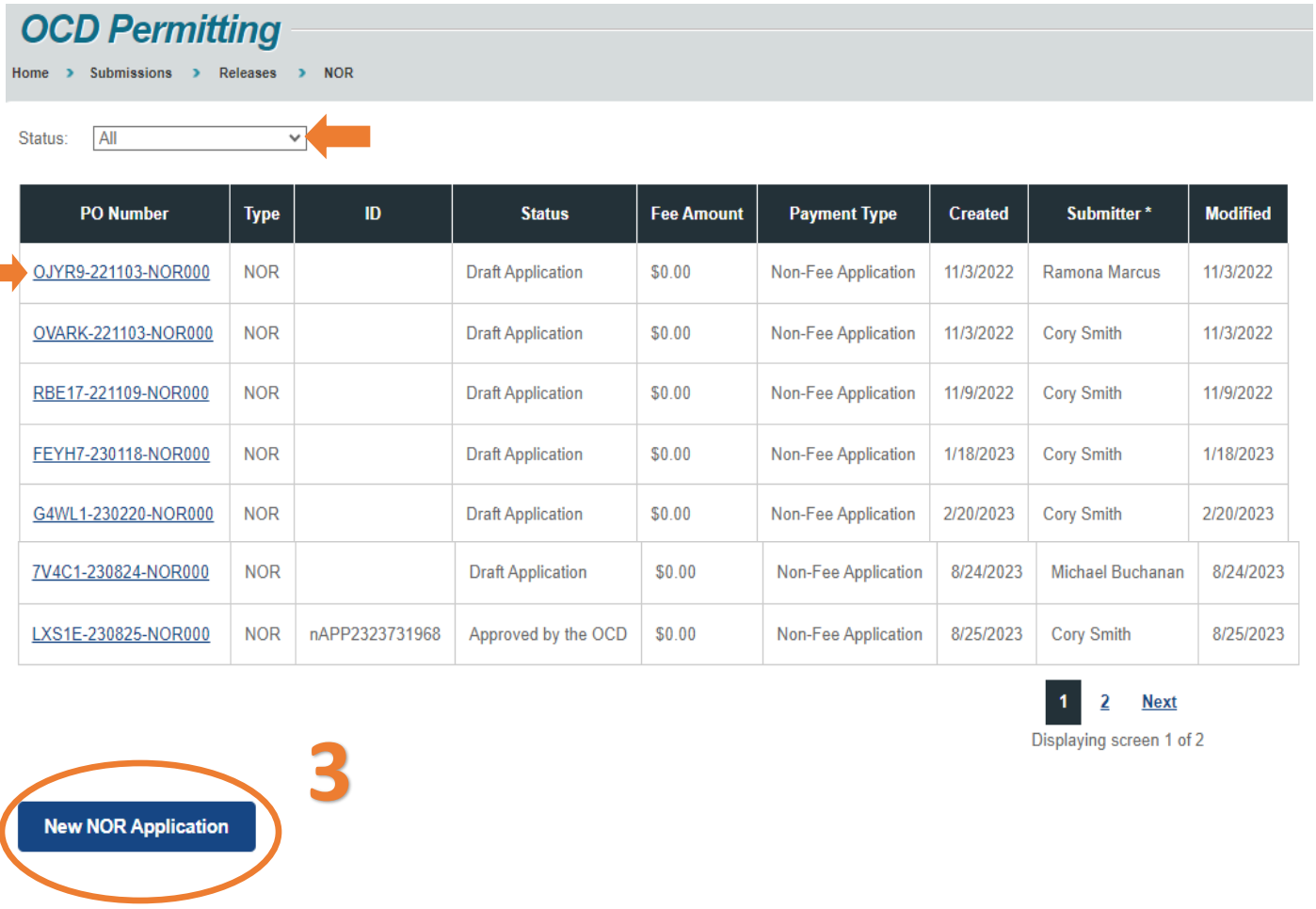


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the NOR is automatically filled out based upon the Users default contact information. The contact e-mail used in this section is where any approvals/ rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

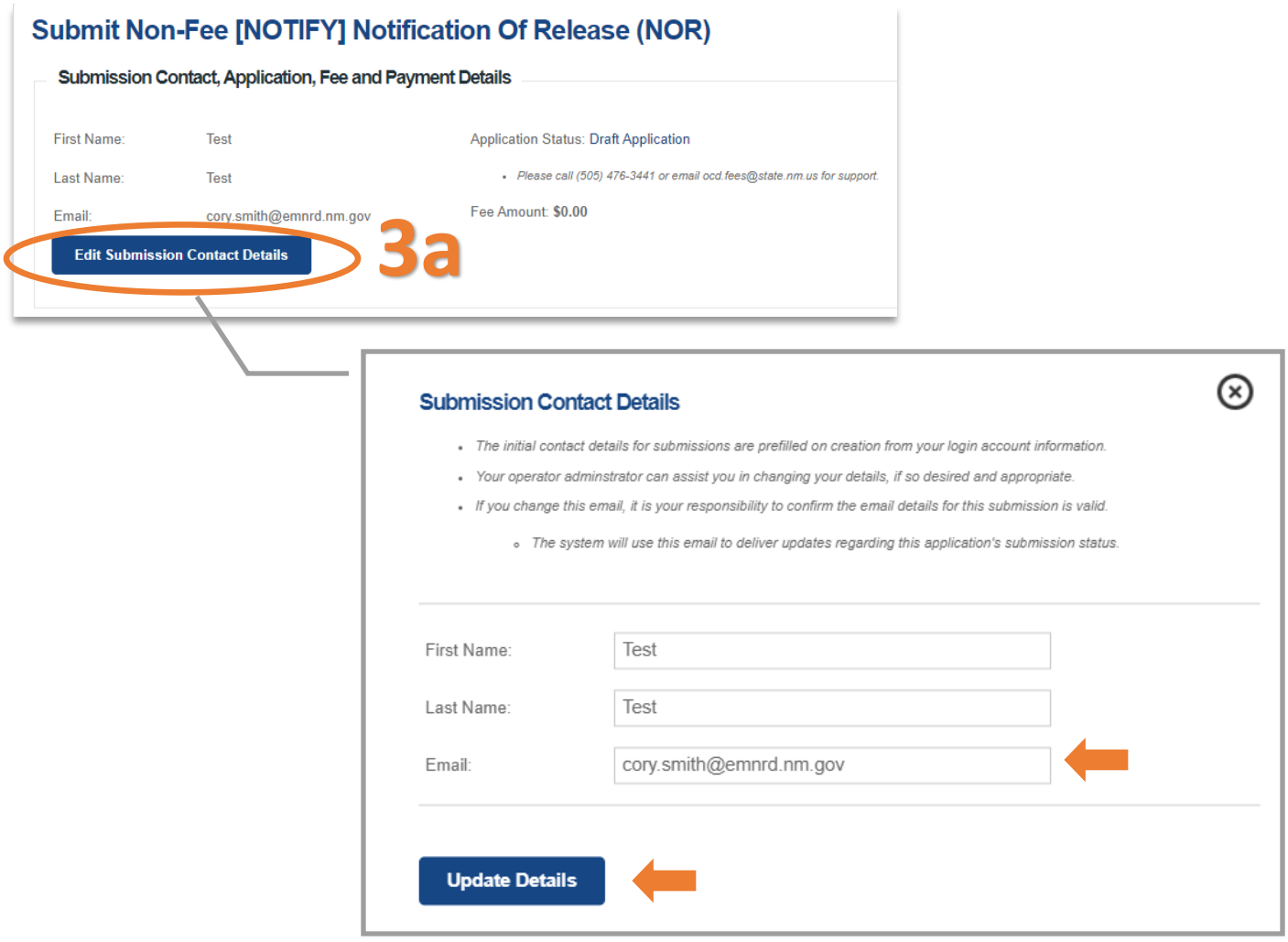
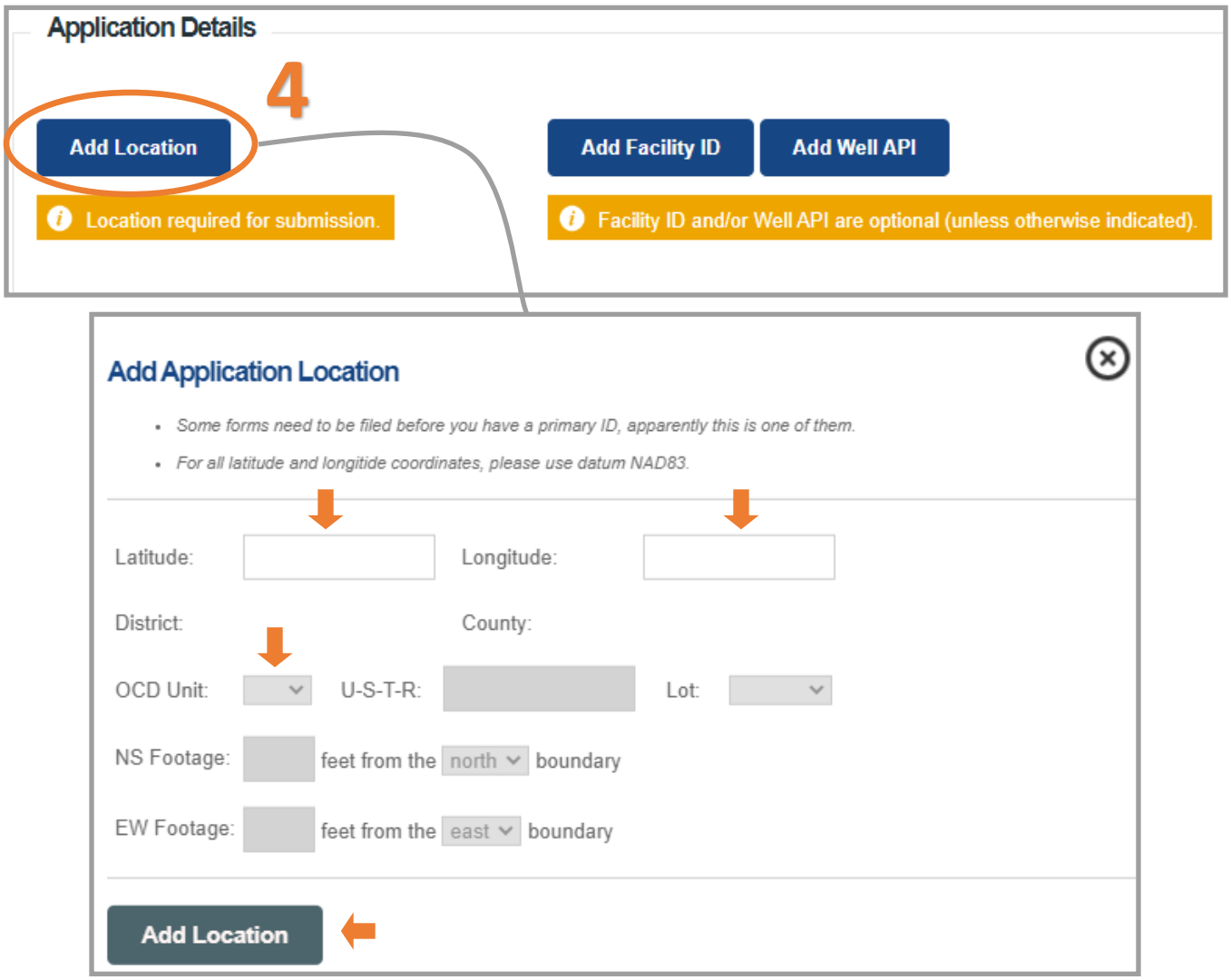


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

4. Add the location of release. This location should be as close as possible to the Point of Release.



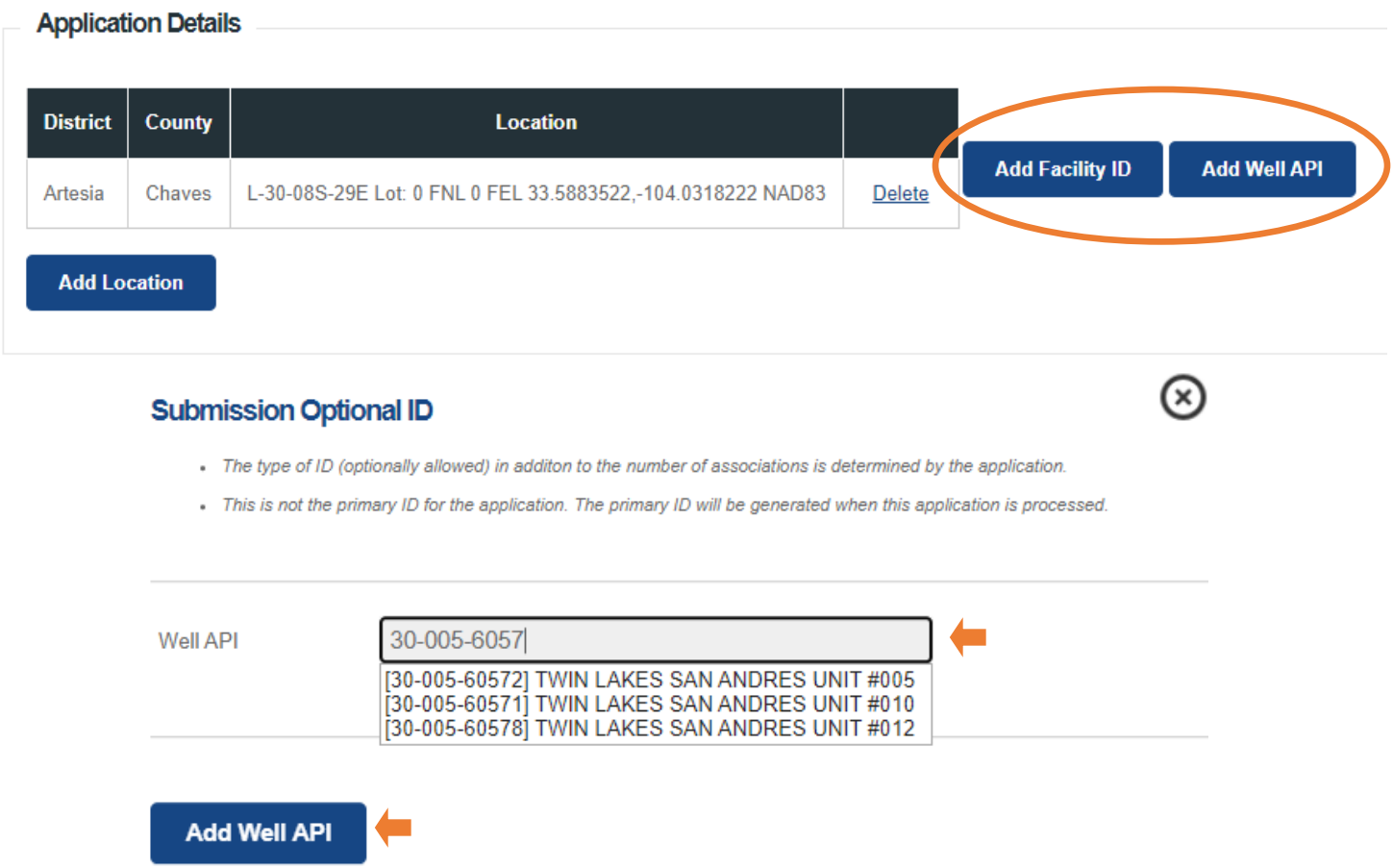
Latitude and Longitude should be in Decimal Degrees and to 5 Decimal positions. If your location ends with a zero add a 1 to it. Example: 33.588210 = 33.5882101.

The Section, Township, and Range is automatically generated based upon the provided coordinates. The User only has to input the OCD unit letter. If you do not have the OCD unit letter, this information can be found on the OCD Public GIS website.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

If most release occur at a well site or facility (Tank Battery etc.) to add an API or Facility ID click on the applicable blue button.



Start by typing in the API # or the well name into the box. A drop down list will appear and you can select the well where the release occurred. This same type of function works with Facility ID numbers.

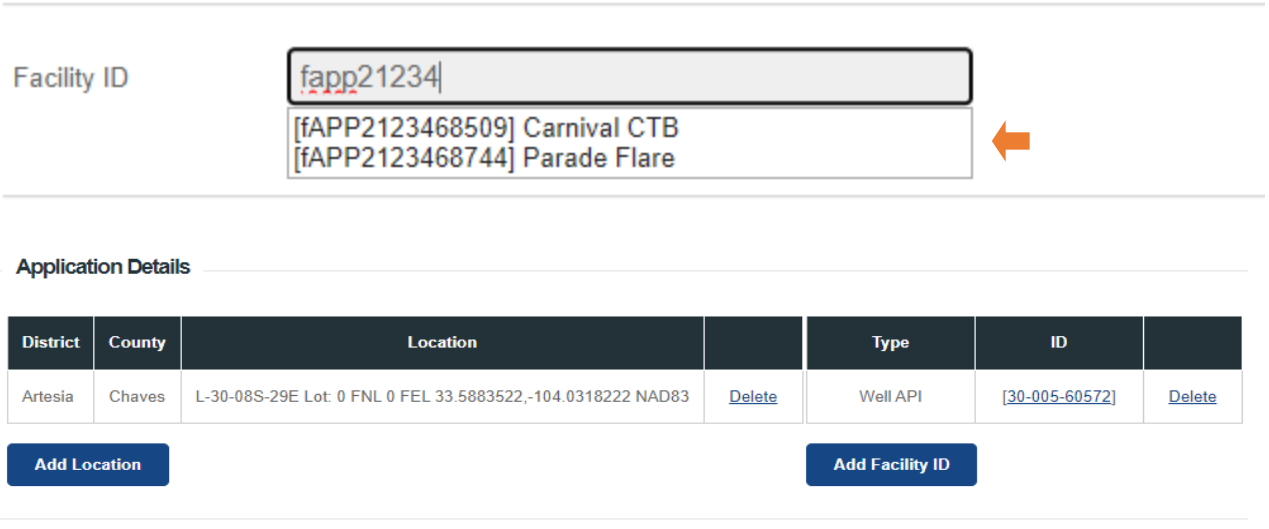


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

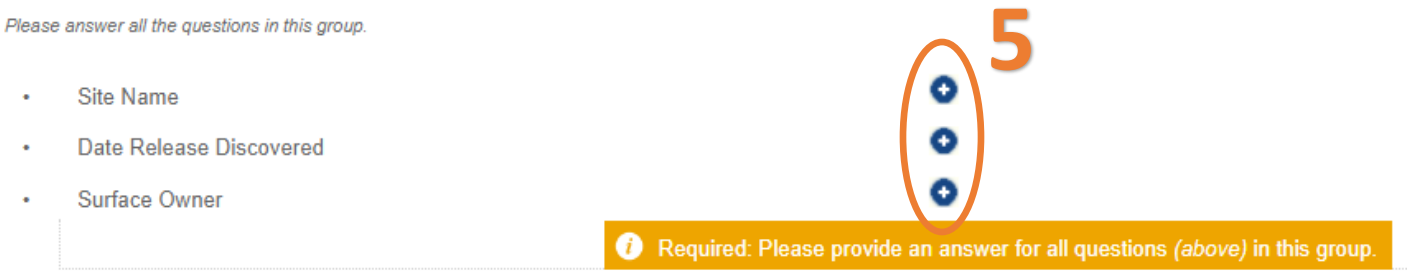
General OCD Permitting functionality is to ask questions and the answer is provided typically by clicking on the ⊕ symbol next to the question. Any questions that are required to be answered prior to the submission of the application, are flagged by an Orange Box indicating that they are required.

5. Answer the following questions by left clicking the button.

Site Name: Name of the release identified by the User, (May be different then Well name or Facility Name).

Date Of Discovery: The date in which the Operator discovered the release and sets the compliance timeline for notifications and remediation due dates.

Surface Owner: Surface owner at the point of release.



Type in or select the appropriate answer for your release. **It is important to note that if you press the enter key after typing in your answers they will not be saved**. You must enter the information and then click the blue Save button. If you accidently entered a question you can back out of the question by click on the X in the top right of the question prompt. This functionality is for all questions in OCD Permitting.

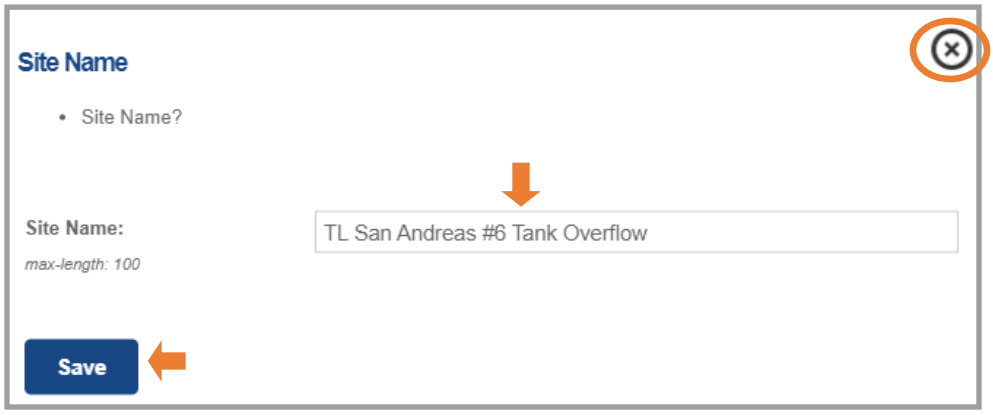
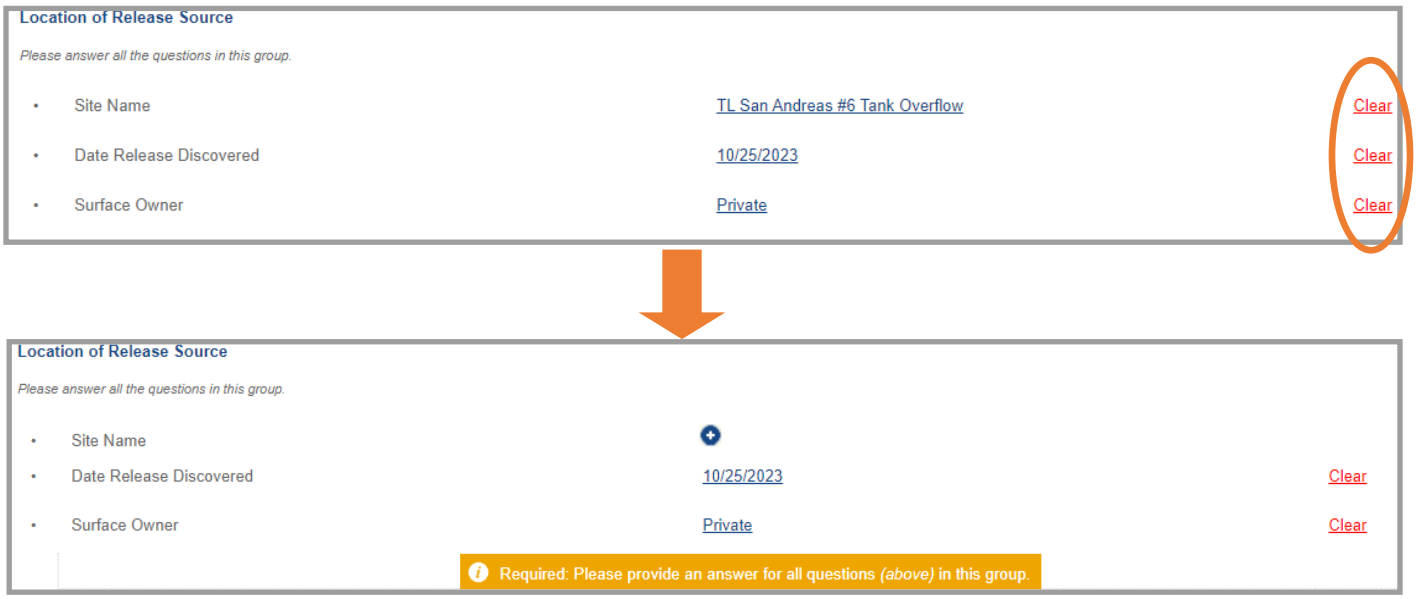


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

In the event that a mistake was made the User has the ability to clear the questions answer by left clicking on The **Red** "Clear" button to the right of the questions.

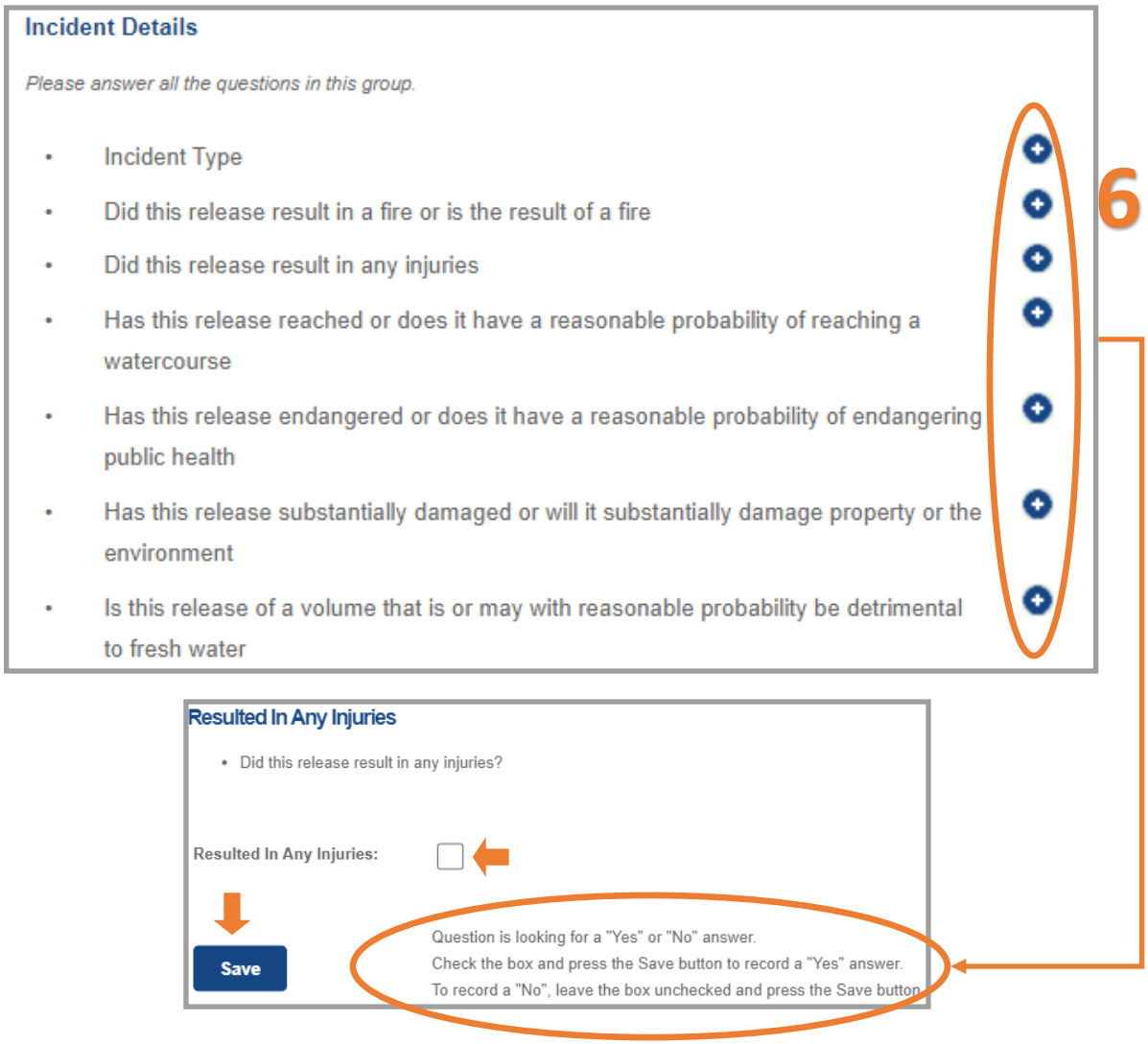


This functionality works for all questions in the Notice of Release and C-141 Corrective Action Applications.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

6. Left click the Blue buttons to the right of the each of the questions to answer.



Incident Type: Select the category that best fits your release. In the event that your release contains two different types select the category that had the highest volume. Released 50 BBLs of Produce water and 10 BBL of oil release type would be Produce water.

Has this release reached or does it have a reasonable probability of reaching a watercourse.:
river, creek, arroyo, canyon, draw or wash or other channel having definite banks and bed with visible evidence of the occasional flow of water to include significant water courses and their next lower tributary as defined in 19.15.17 NMAC.

Has this release substantially damaged or will it substantially damage property or the environment:
Examples: destroyed Oil & Gas equipment, impacted Public Roads, Wildlife and Livestock, Impacted private property like homes, cars, animals etc.

Is this release of a volume that is or may with reasonable probability be detrimental to fresh water:

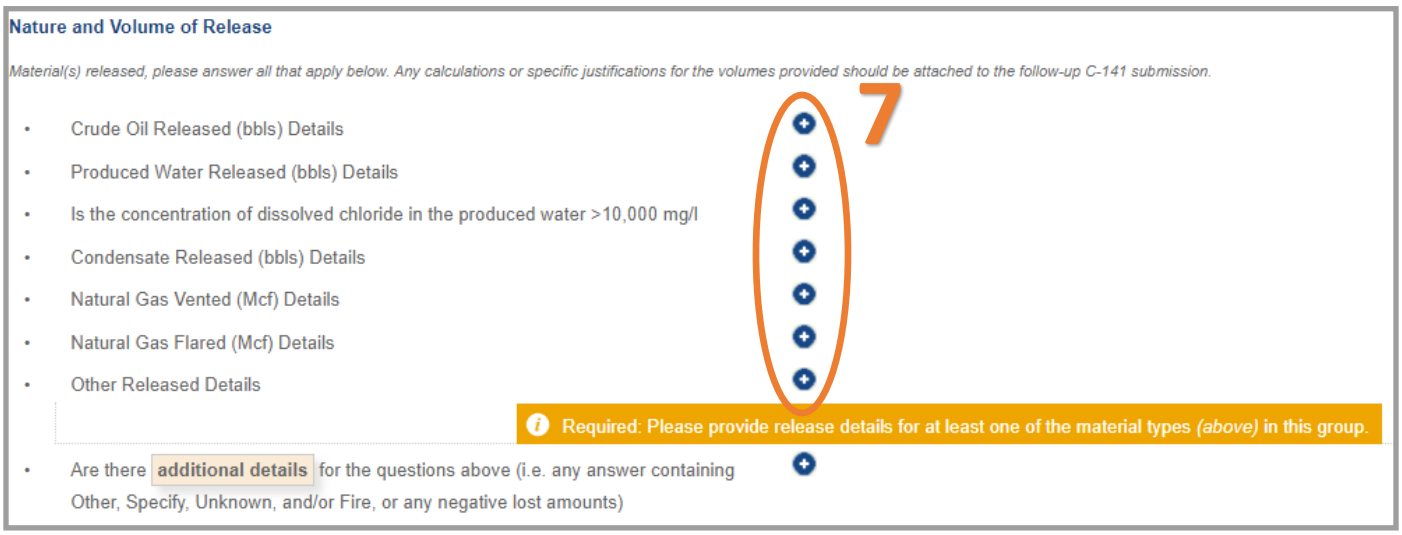
Example: A release of 5 **gallons** of an extremely hazardous chemical.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

7. The user must provide at a minimum one nature and volume of the release. During the NOR stage OCD understands that Operators may not have all of the information and the information is subject to change. Operators will have the opportunity to change and confirm the release volumes/types when submitting the follow up initial C-141 within 15 days.

The "Other Released Details" is only if your release does not fit one of the above material types and should not be used for unknown volumes. If the User selects the "Other Release Details" they will be required to provide additional details.



Fill out the Cause, source, released and recovered volume.
Released Volume = Total volume released including any volume that was recovered.

If the volume is unknown check the "Unknown Released Amount" Check box.

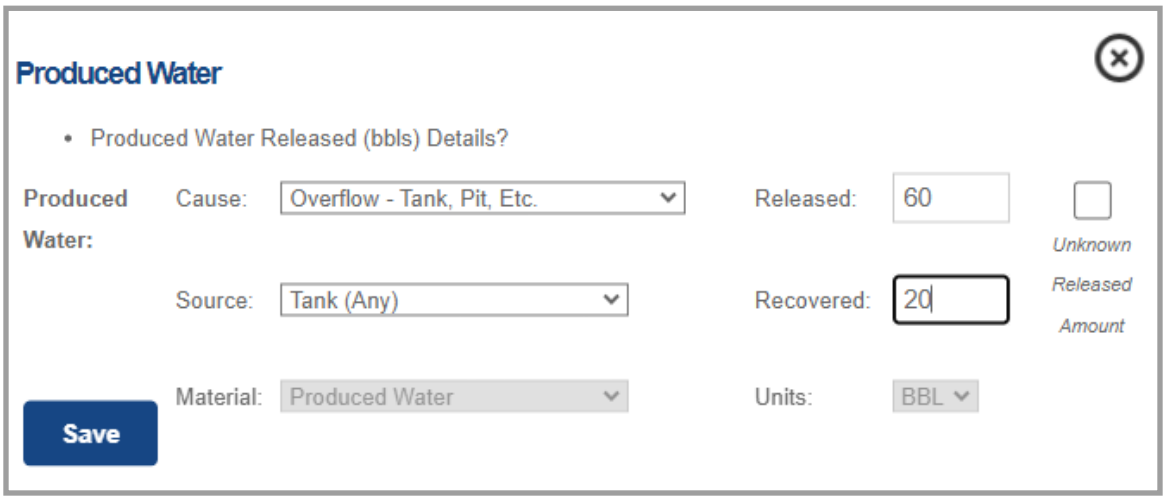
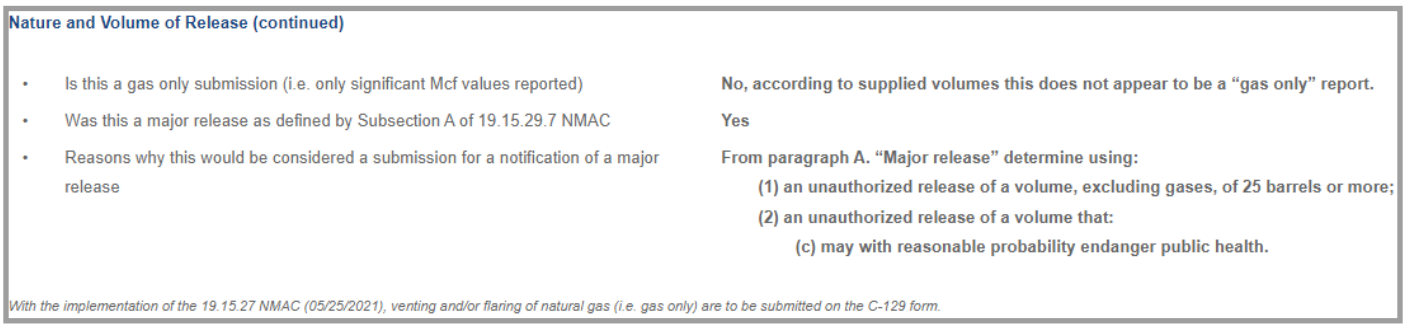


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

Review the Automated information based upon the answers provided by the User. Verify that the correct incident severity Major/Minor is be applied to the incident.



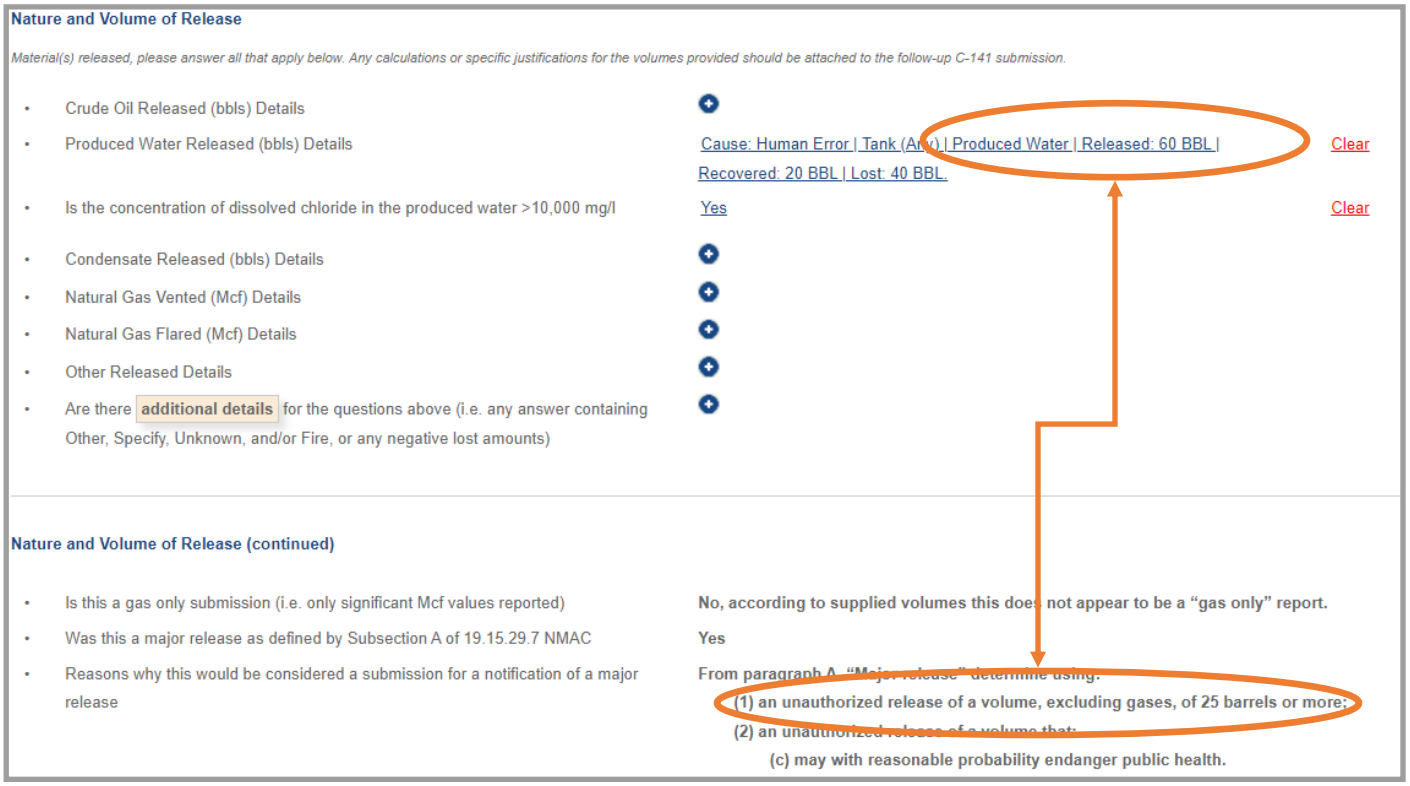
Nature and Volume of Release (continued)

• Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
• Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
• Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (c) may with reasonable probability endanger public health.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Is this a gas only submission (i.e. only significant Mcf values reported)

If the Answer to this question is Yes, that means the user has reported a gas only release and that release should be reported through the C-129 application. The User will not be able to move forward with submitting an NOR application.



Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

• Crude Oil Released (bbls) Details	
• Produced Water Released (bbls) Details	Cause: Human Error | Tank (Any) | Produced Water | Released: 60 BBL | Recovered: 20 BBL | Lost: 40 BBL. Clear
• Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes Clear
• Condensate Released (bbls) Details	
• Natural Gas Vented (Mcf) Details	
• Natural Gas Flared (Mcf) Details	
• Other Released Details	
• Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	

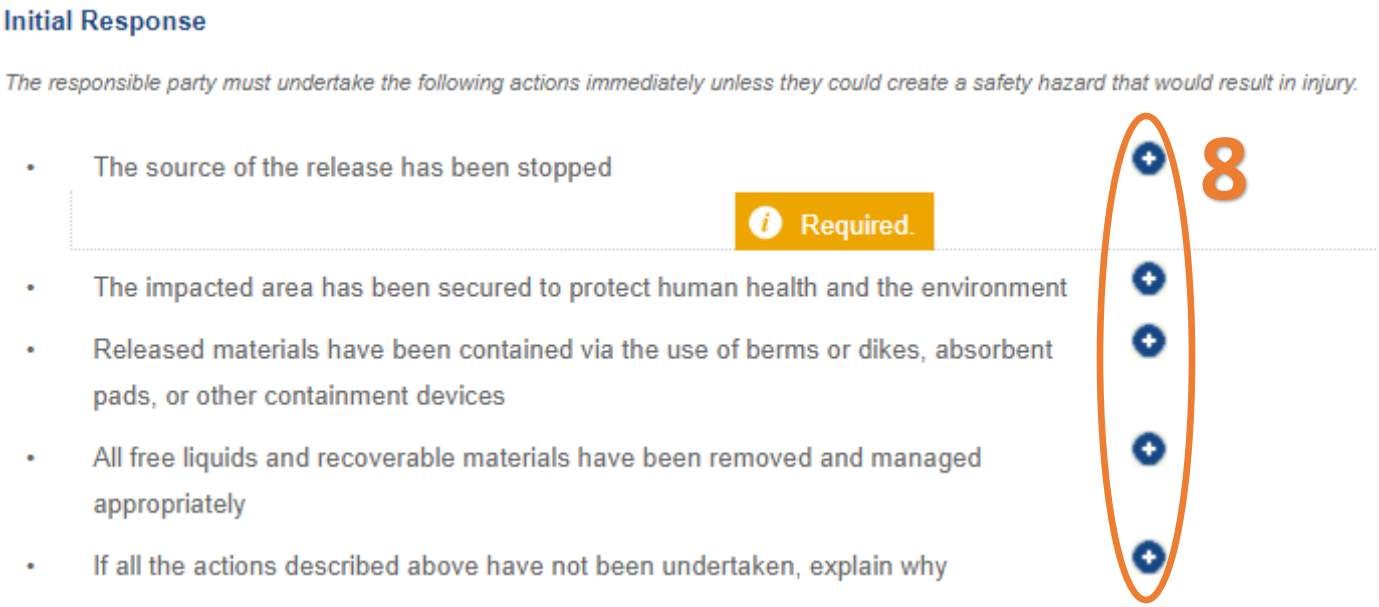
Nature and Volume of Release (continued)

• Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
• Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
• Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more; (2) an unauthorized release of a volume that: (c) may with reasonable probability endanger public health.

FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

8. Answer all the questions regarding the responsible party's initial response to a release.



The source of the release has been stopped:

Examples: Pump was turned off, valves were closed, etc.

The impacted area has been secured to protect human health and the environment:

Examples: Area has been fenced/cordoned off, Dry watch attendant on site etc.

All free liquids and recoverable materials have been removed and managed appropriately :

Example: Vac truck recovered all free standing liquids and disposed of them at the nearest SWD.

NOTE: allowing free standing liquids to soak into the ground with no attempt to recover the liquids is a violation pursuant to 19.15.29.8.C NMAC and is subject to civil penalties under 19.15.5 NMAC.

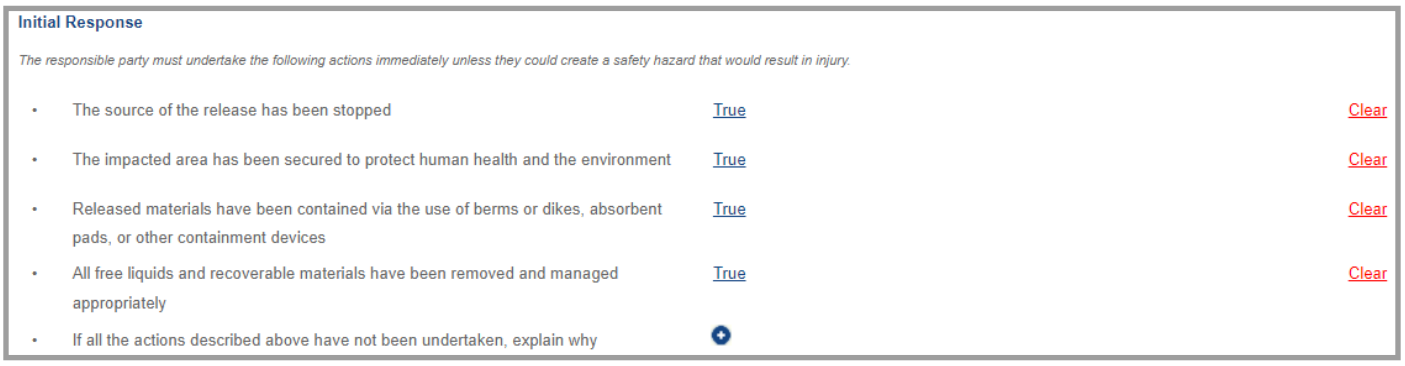
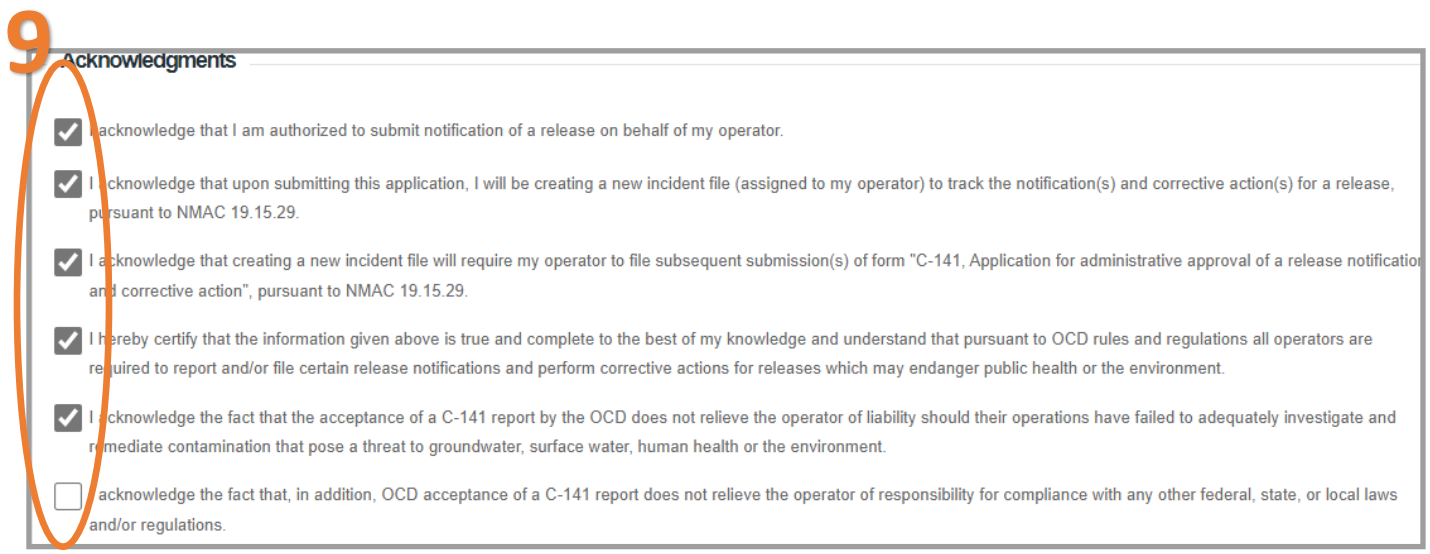


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

9. Read and understand each Acknowledgement by left clicking in the check box.
NOTE: A Submission of a NOR is not an initial C-141.



10. Review your NOR application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on the Initial C-141 submitted within 15 days from the date of discovery. Once you are ready to submit to the OCD click the blue Submit to OCD button. Clicking the Delete button will clear the entire application and remove it from your application queue.

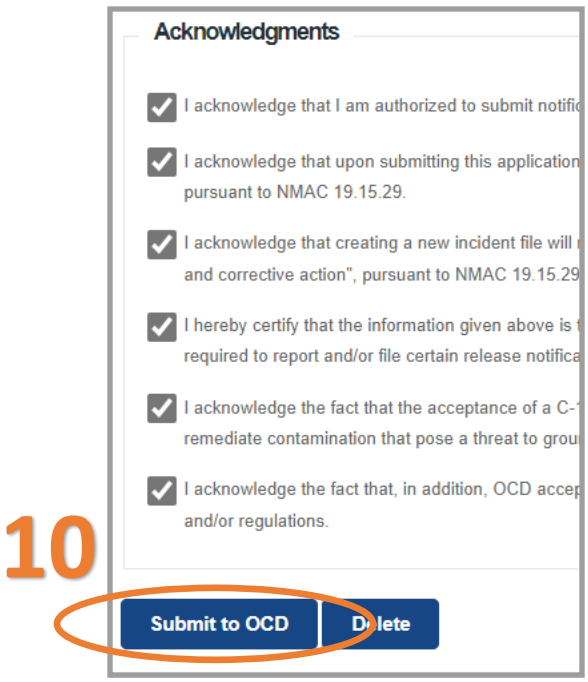
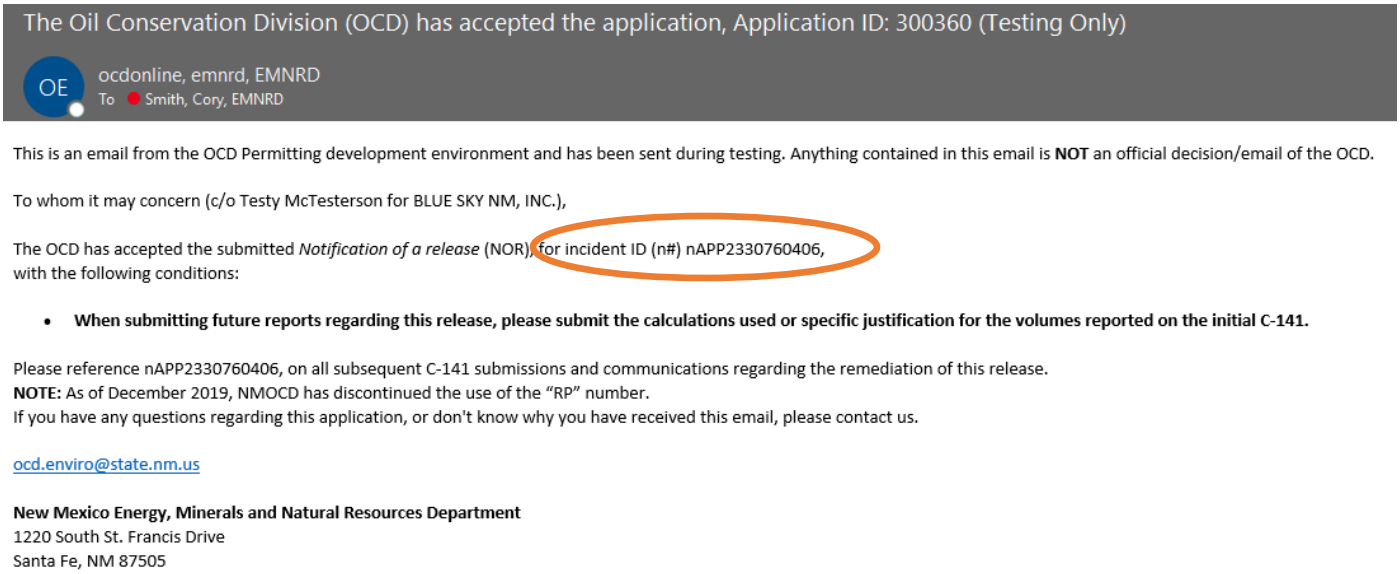


FIGURE 1

SUBMITTING A NOTIFICATION OF RELEASE (NOR)

Once the user has submitted the Notice of Release to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov indicated that the NOR application ID# has been accepted. Additionally the email will provide the User with the incident # (napp2330760406) that will be required for all future C-141 submissions or communication with the OCD.

This completes submitting a Notification of Release.



The Oil Conservation Division (OCD) has accepted the application, Application ID: 300360 (Testing Only)

OE ocdonline, emnrd, EMNRD
To Smith, Cory, EMNRD

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Testy McTesterson for BLUE SKY NM, INC.),

The OCD has accepted the submitted *Notification of a release* (NOR) for incident ID (n#) nAPP2330760406,
with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2330760406, on all subsequent C-141 submissions and communications regarding the remediation of this release.
NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.
If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Log into OCD Permitting and ensure that you are Logged into the Correct OGRID if you have access to multiples. It is very important that the correct OGRID is selected as the Responsible Party of the incident will be assigned to the reporting OGRID.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action ($150 fee required)

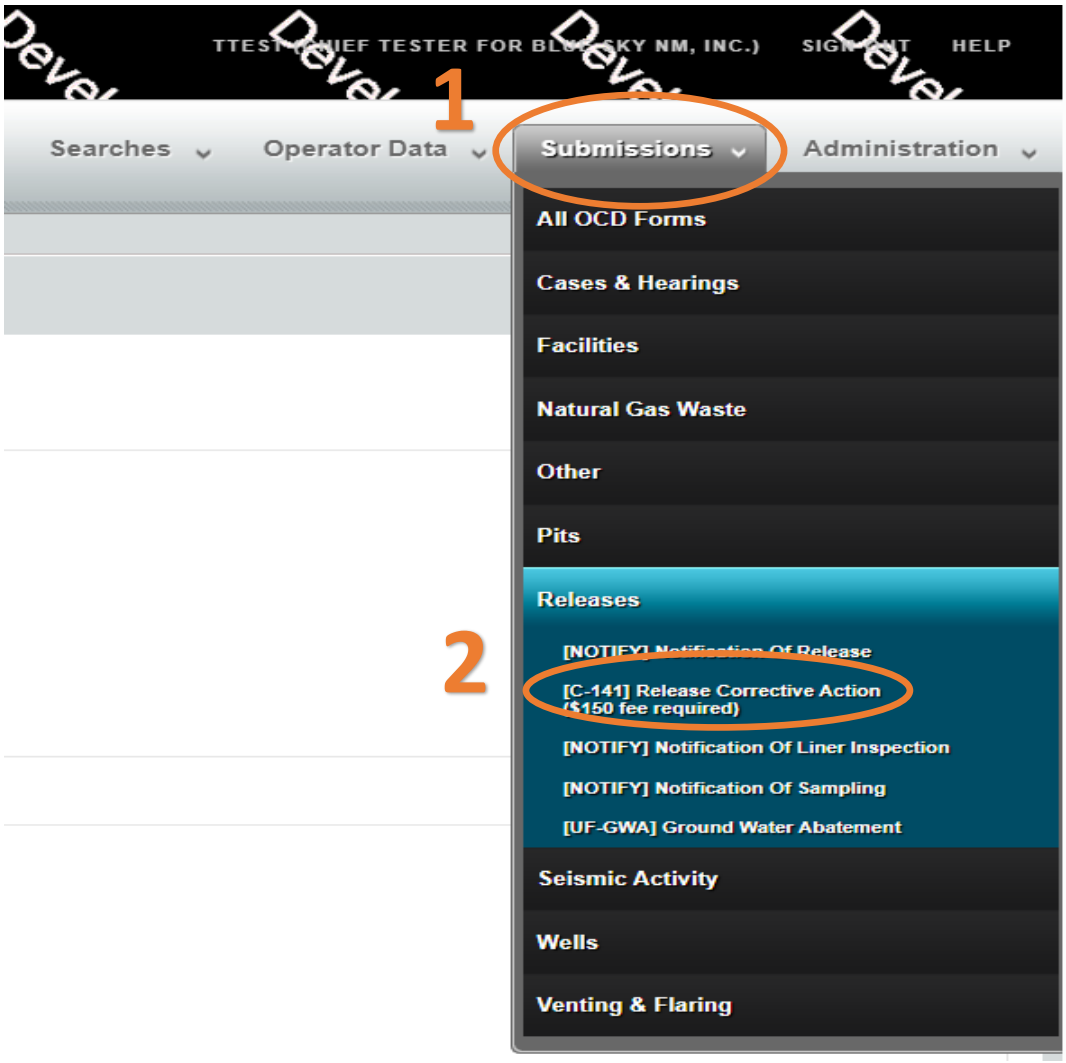
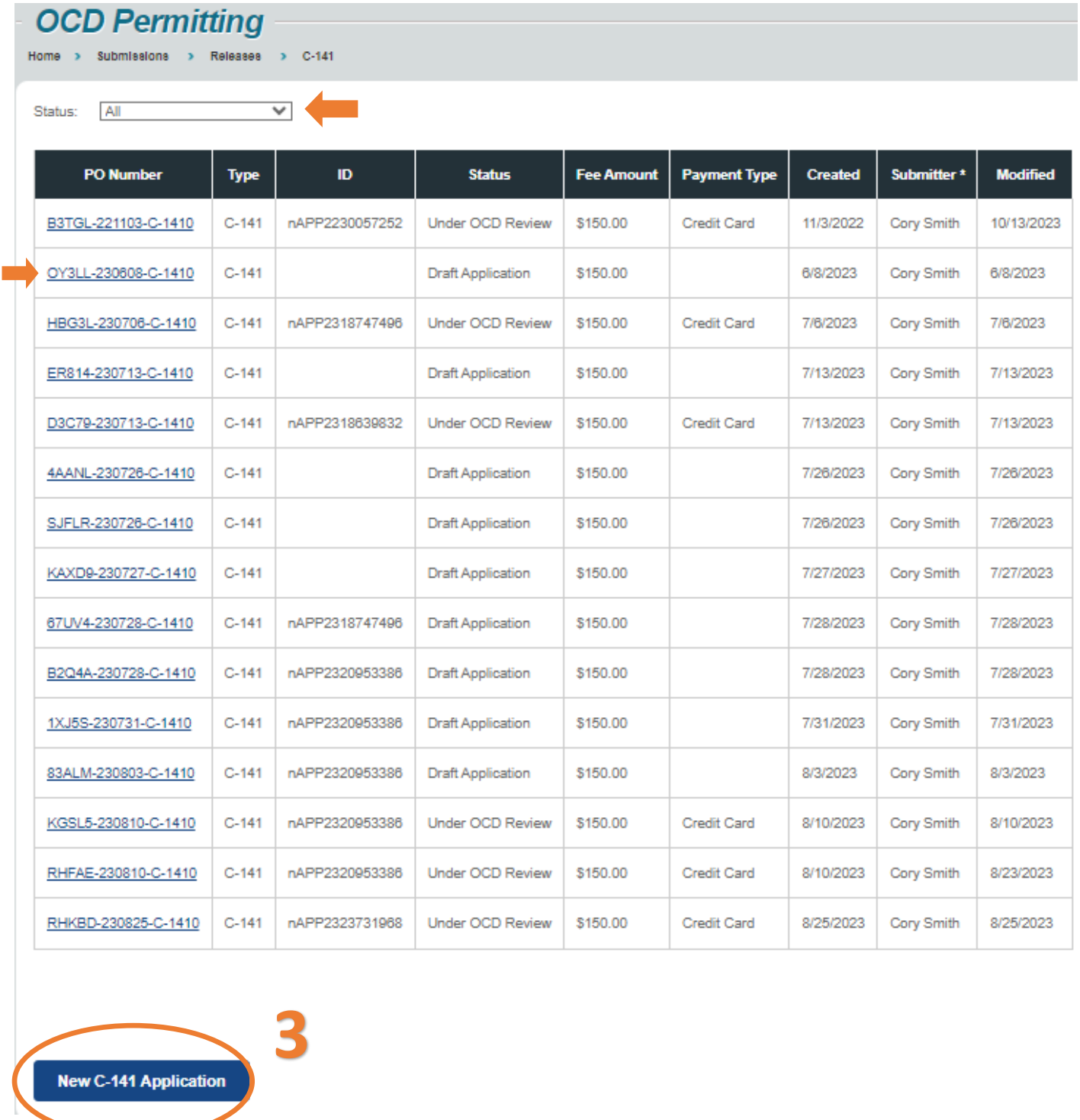


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the "New C-141 Application" button.



PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
OY3LL-230608-C-1410	C-141		Draft Application	$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230706-C-1410	C-141	nAPP2318747496	Under OCD Review	$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230726-C-1410	C-141		Draft Application	$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230726-C-1410	C-141		Draft Application	$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		8/3/2023	Cory Smith	8/3/2023
KGSL5-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of the screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based up-on the Users default contact information. The contact e-mail used in this section is where any approvals/ rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

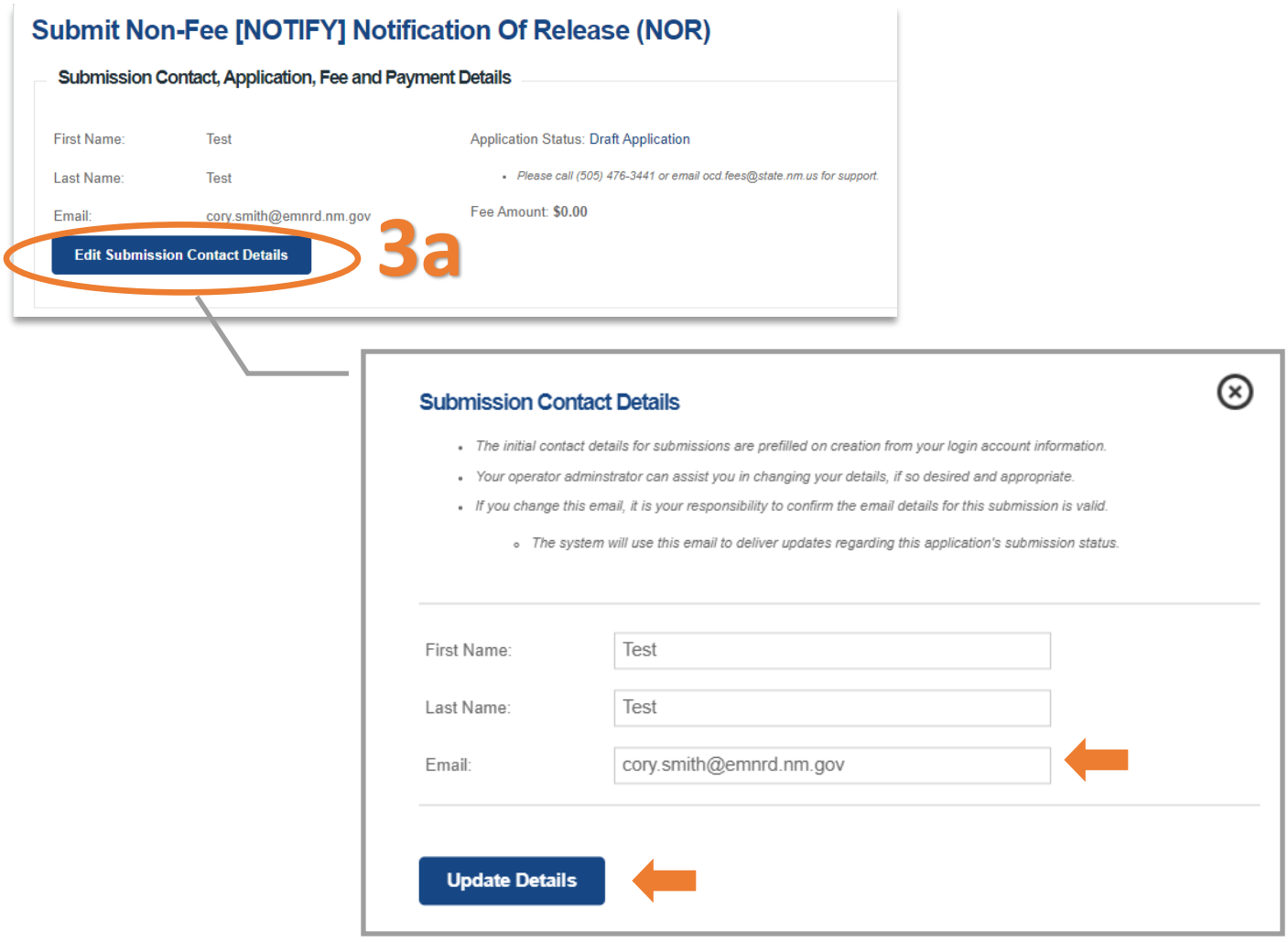


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

4. Add the incident ID # from your Notice of Release (NOR) E-mail or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

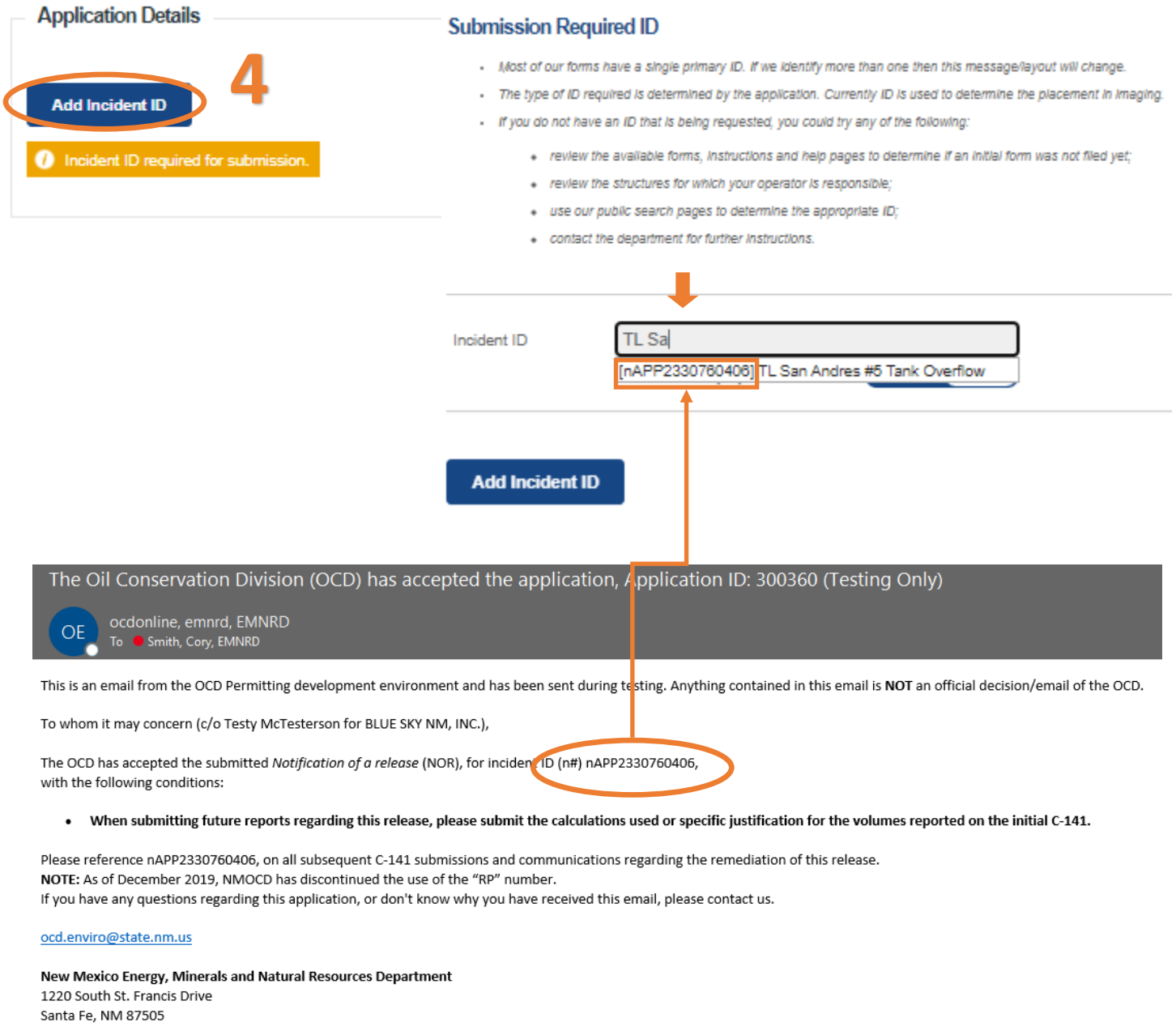


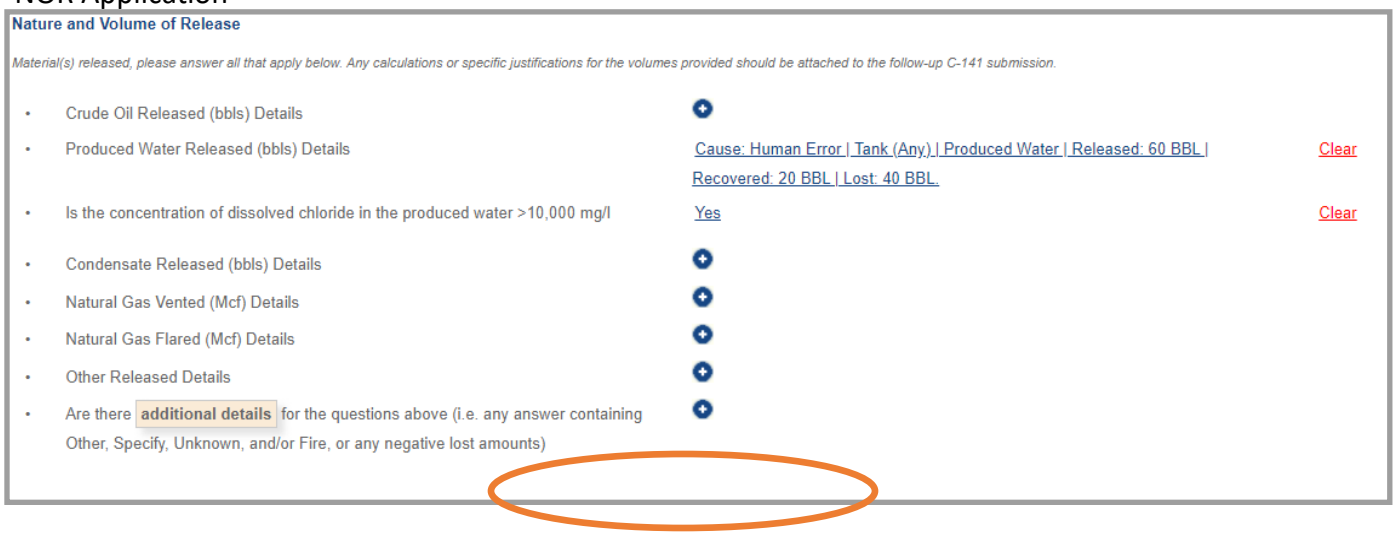
FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Notice of Release and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR applications that was submitted in Figure 1. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application.

Example: The User answered the Nature and Volume of Release in the Notice of Release applications (Figure 1). Now when submitting the Initial C-141 the User has the ability to change the answers for any corrections. Since the C-141 Initial is the confirmation of the Notice of Release the User also has to submit the volume Calculations that validates the information provided.

NOR Application



C-141 Application

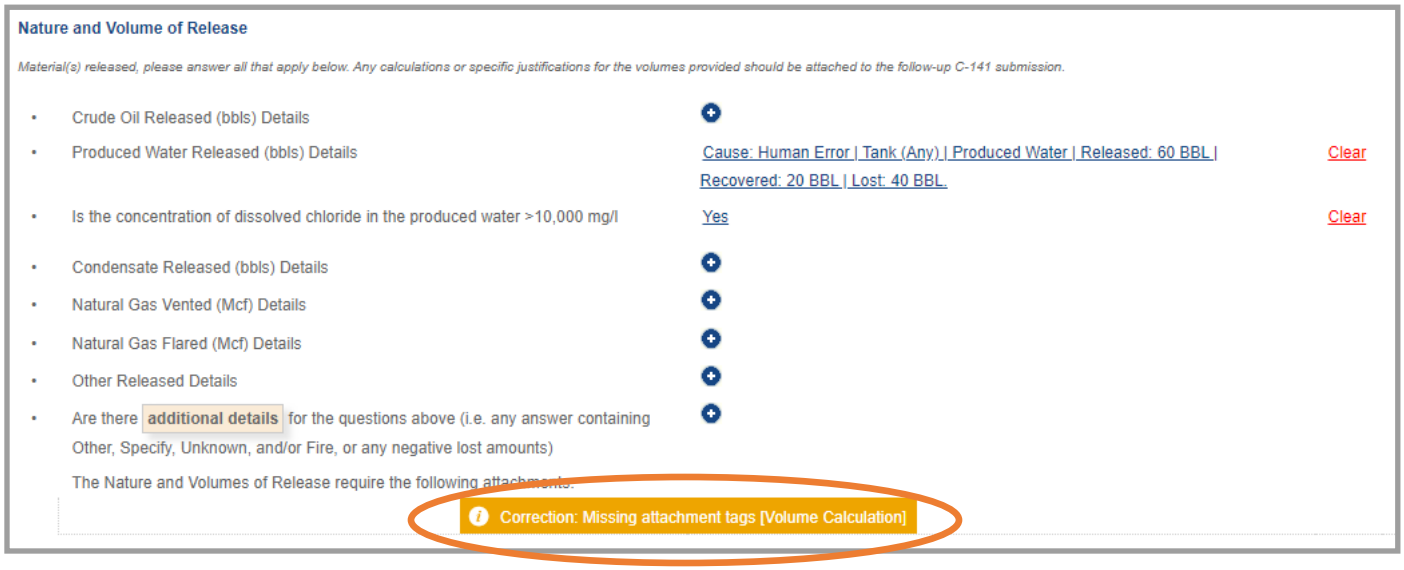


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

5. Review the answers to all of the questions and make changes as needed. If there are no changes the User must provide the missing attachment for Volume Calculations.

5a. To add an attachment scroll to the top of the application left click the Blue Add attachment button.

5b. Select the type of attachment you are uploading from the drop down list. Left click the "Choose File" button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files.

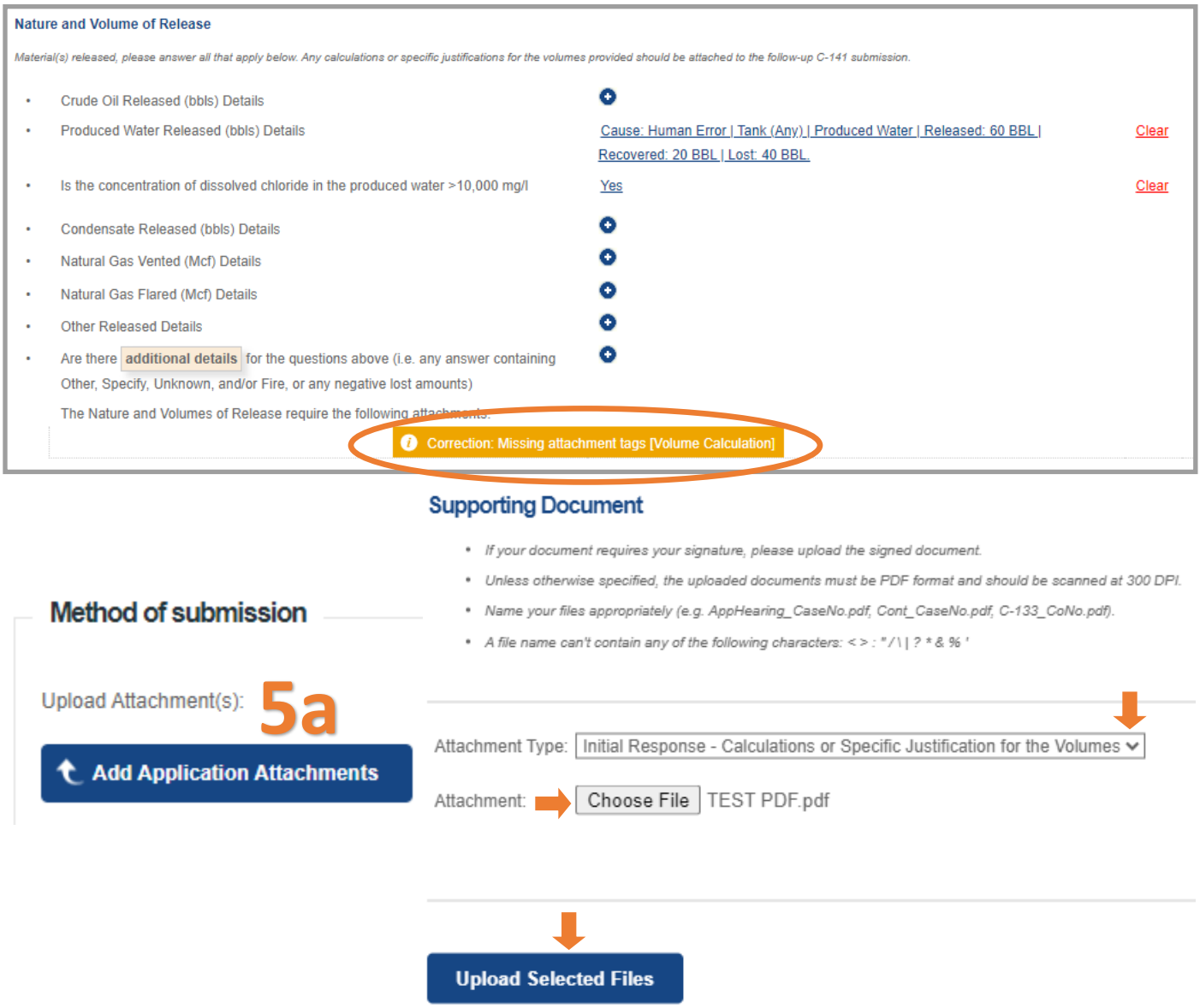
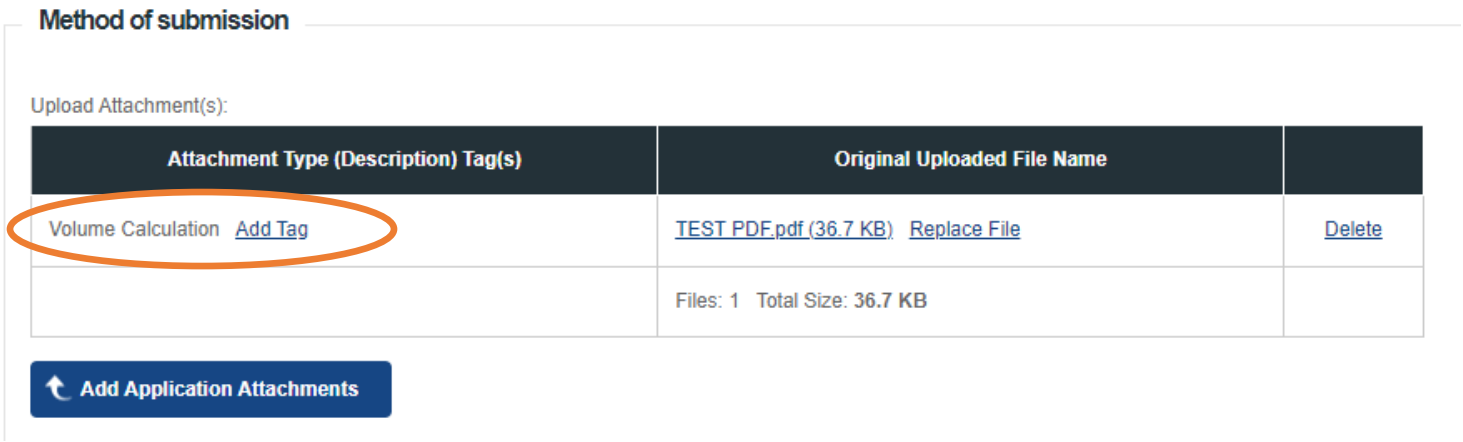


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Users may upload multiple attachments to each application. At this current time, the User may also add multiple tags to a single file that may contain multiple attachments types. Attachment types/tags is an area that will be focused on in phase 2 of the C-141 update.



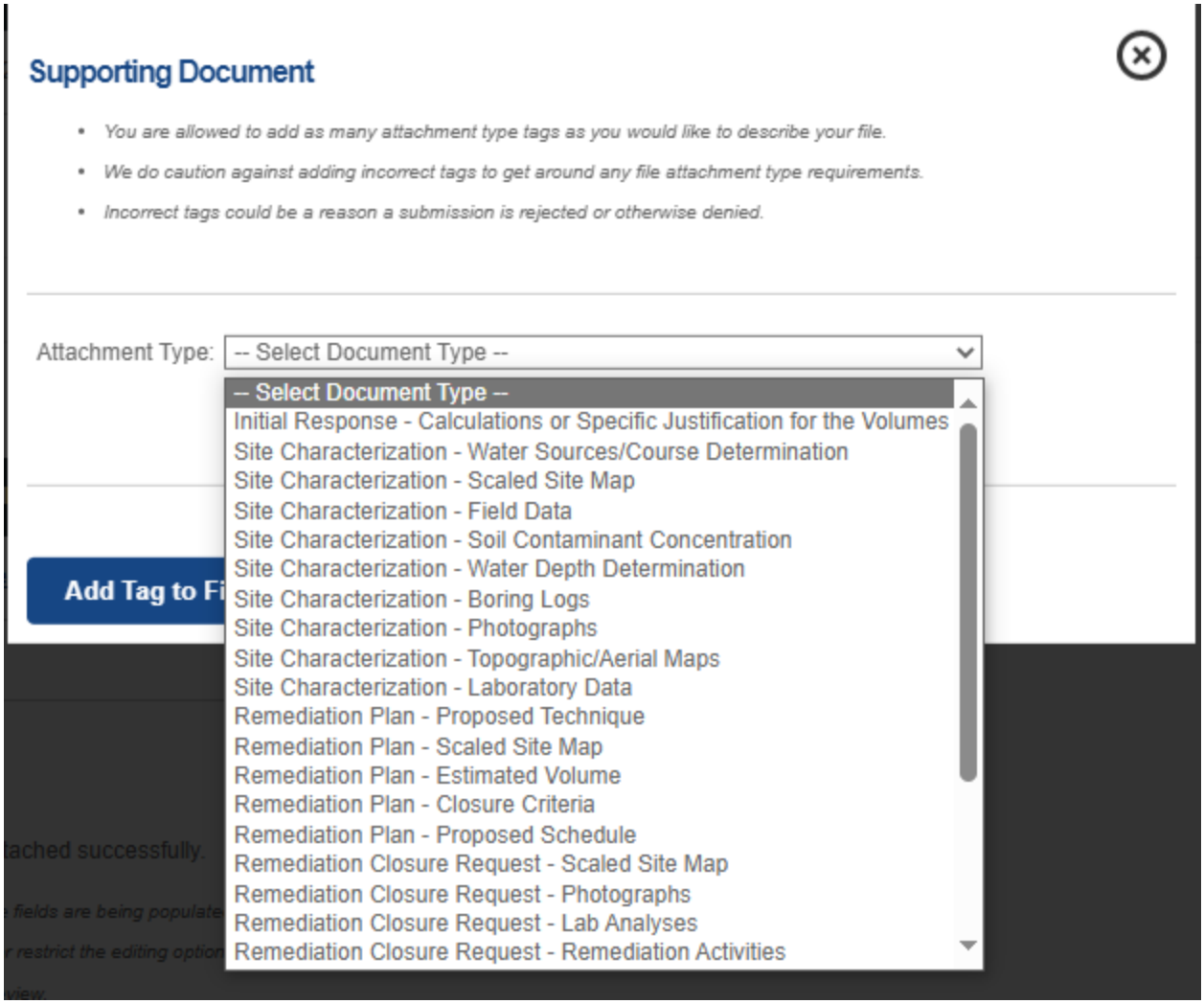


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

6. Once the volume calculations have been uploaded, the User will need to Sign/Certify that information. If the user changes any of the information in this section they will have to sign again.

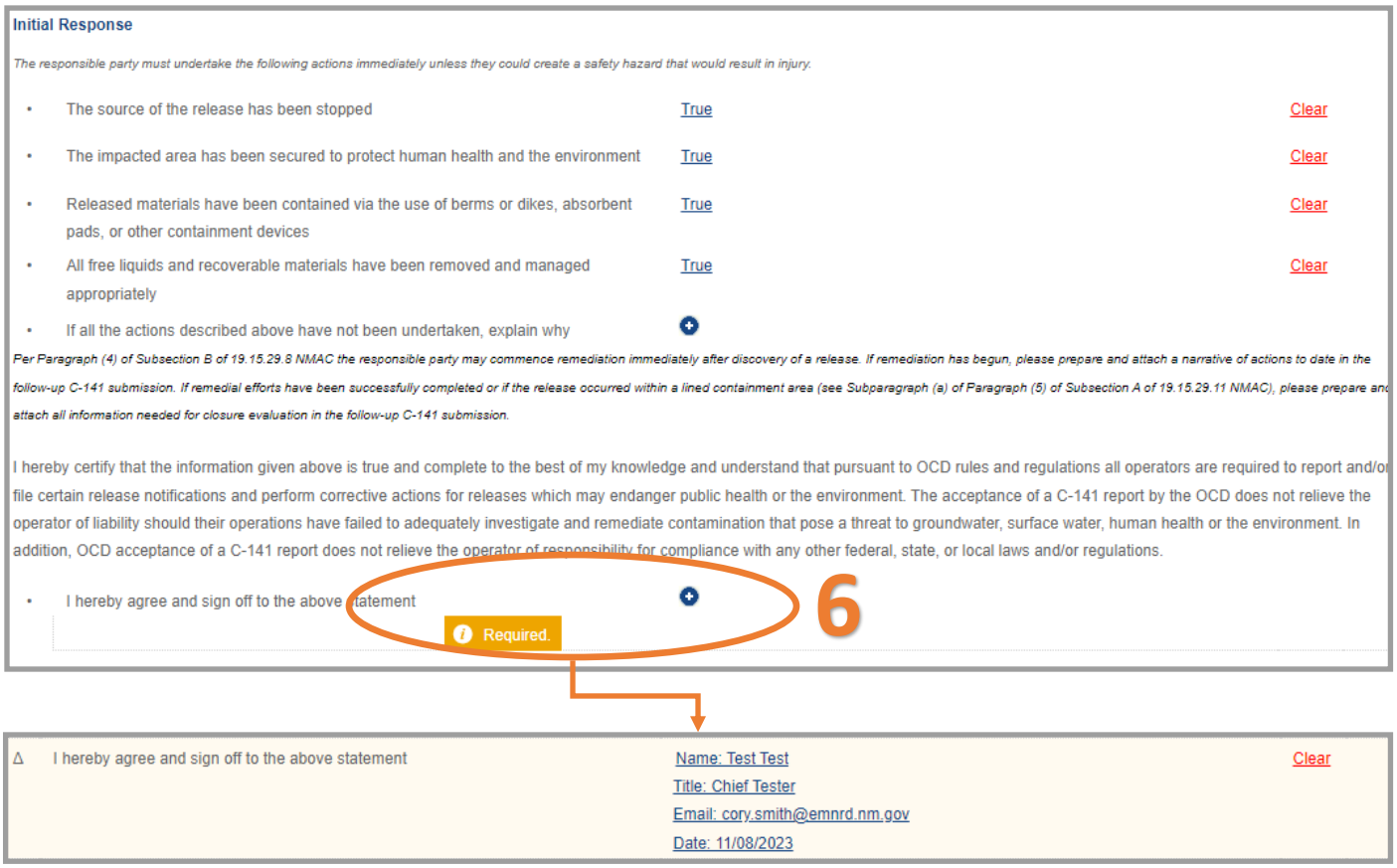


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Site Characterization information is Optional when submitting an Initial C-141. User may choose to provide this information which will assist the OCD in prioritizing releases for processing. This information will become required when attempting to move any further past an initial C-141.

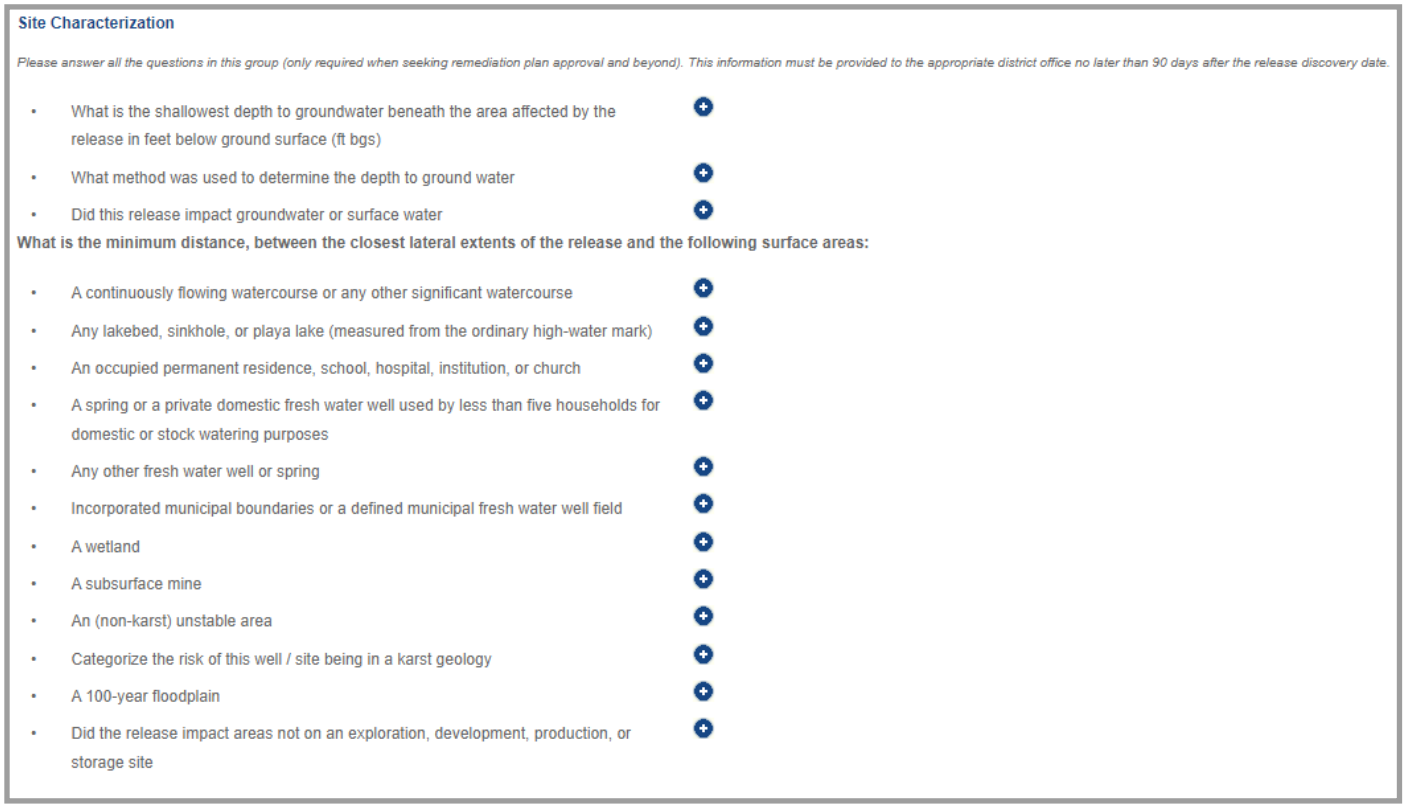
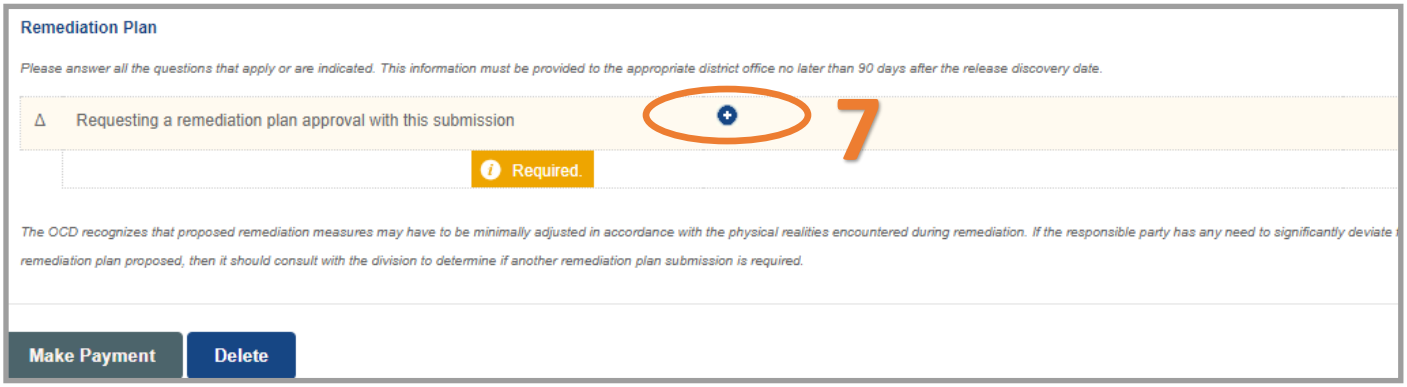


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

7. Lasty the User now must answer if they are requestion a Remediation plan approval with this submission. If the user answer no this submission will be classified as a Initial C-141. If the User selects yes and there is not an approved Initial C-141 on file this submission will ALSO count as a Initial C-141 + Remediation plan.

Please note that OCD does not approve partial applications in the event that the User submits an Initial + Remediation Plan and the application is rejected both C-141 will be rejected.



8. Review your C-141 Initial application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

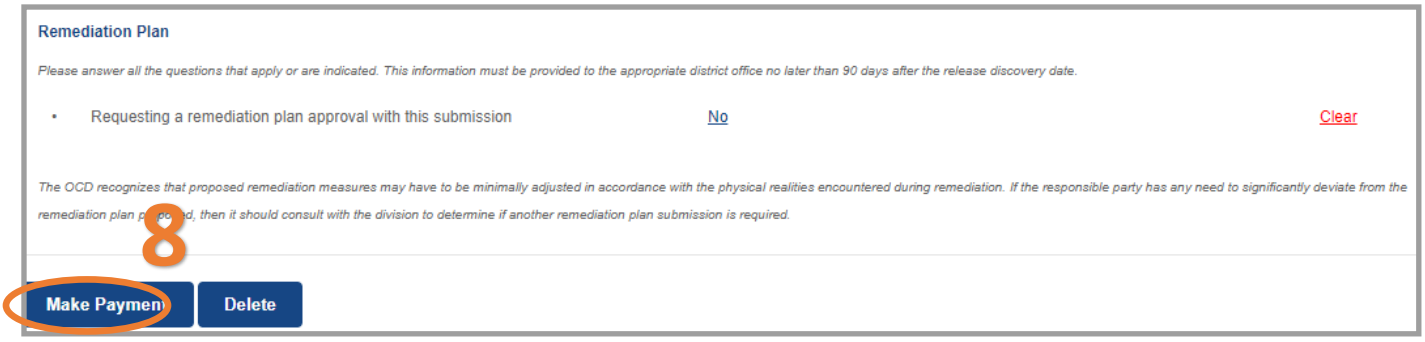


FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

Once the user has submitted the C-141 Initial to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides an PO Number that can be searched on the OCD Action Status Page.

Thank you for your fee application payment! Your receipt is attached.

PO Number: 6CPC7-231107-C-1410
Payment Date: 11/8/2023
Payment Amount: $150.00
Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action
Fee Amount: $150.00
Application Status: Under OCD Review

OGRID: 300825
First Name: Test
Last Name: Test
Email: cory.smith@emnrd.nm.gov

At this state the Initial C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

Status: Under OCD Review

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
6CPC7-231107-C-1410	C-141	nAPP2330760406	Under OCD Review	$150.00	Credit Card	11/7/2023	Test Test	11/8/2023

OCD Permitting

Home > Searches > Incidents > Incident Details

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [300825] BLUE SKY NM, INC.
Status: Initial C-141 Received, Pending OCD Review
Type: Produced Water Release
District: Artesia

Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 2

SUBMITTING AN INITIAL C-141(C-141-V-INITIAL)

As the Application is Reviewed and Processed by the OCD the status of the application will change to Approved or Rejected and the Status of the Incident will also change. In the below example the applications was approved.

Status: Approved by the OCD

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
6CPC7-231107-C-1410	C-141	nAPP2330760406	Approved by the OCD	$150.00	Credit Card	11/7/2023	Test Test	11/8/2023

OCD Permitting

Home > Searches > Incidents > Incident Details

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator		
Type:	Produced Water Release	Severity:	Major
		Surface Owner:	Private
District:	Artesia	County:	Chaves (05)

Additional on approval/rejection of an application the user email who was identified in step 3a will received an email with the Incident# and any conditions of approval / reasons for rejection. This completes the Initial C-141 process.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2330760406,
with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Cory Smith
Environmental Projects Supervisor
505-419-2687
cory.smith@emnrd.nm.gov

This contact information is from the OCD Reviewer who reviewed the application.

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Site Characterizations and Remediation plans (Remediation Plans) are required to be submitted together. This section of the C-141 is used to characterize the site by determining depth to water, distances to significant water course, flood plains, unstable ground etc. In addition to the Characterization the user will also provide the OCD with the Remediation plan that was executed or the proposed remediation plan that include times lines.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action ($150 fee required).

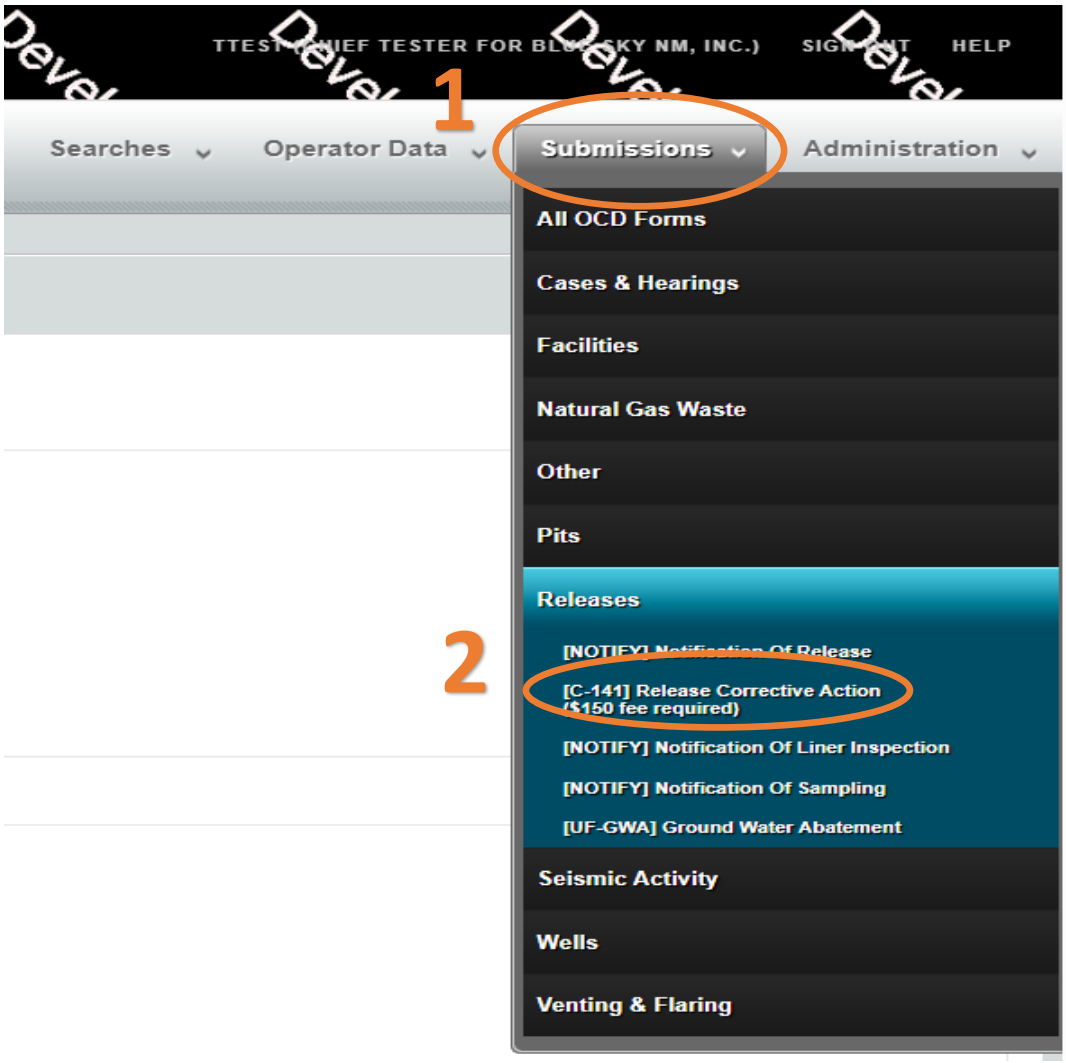
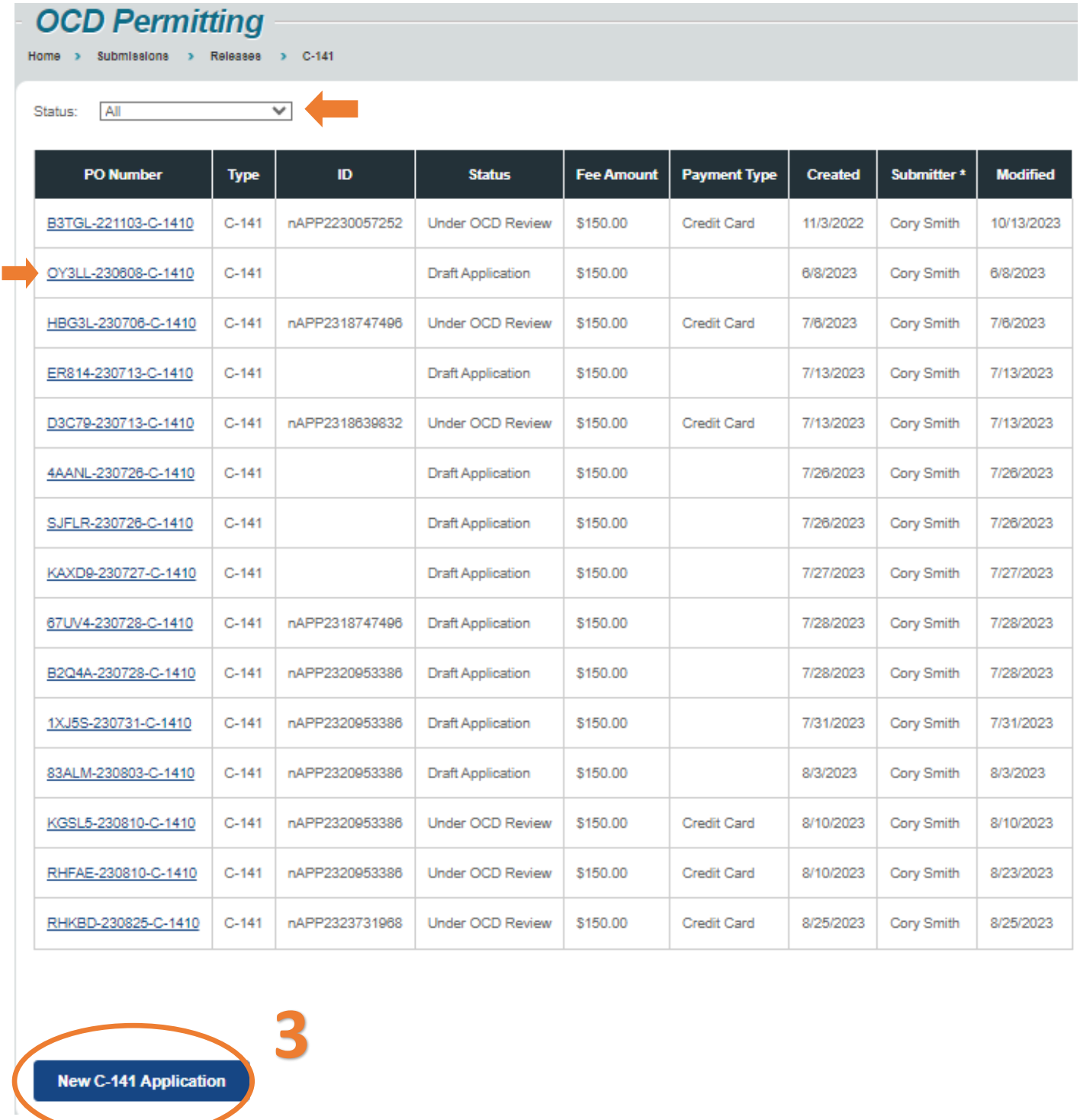


FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.



PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
OY3LL-230608-C-1410	C-141		Draft Application	$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230706-C-1410	C-141	nAPP2318747496	Under OCD Review	$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230726-C-1410	C-141		Draft Application	$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230726-C-1410	C-141		Draft Application	$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		8/3/2023	Cory Smith	8/3/2023
KGSL5-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the User's default contact information. The contact E-mail used in this section is where any approvals/ rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button

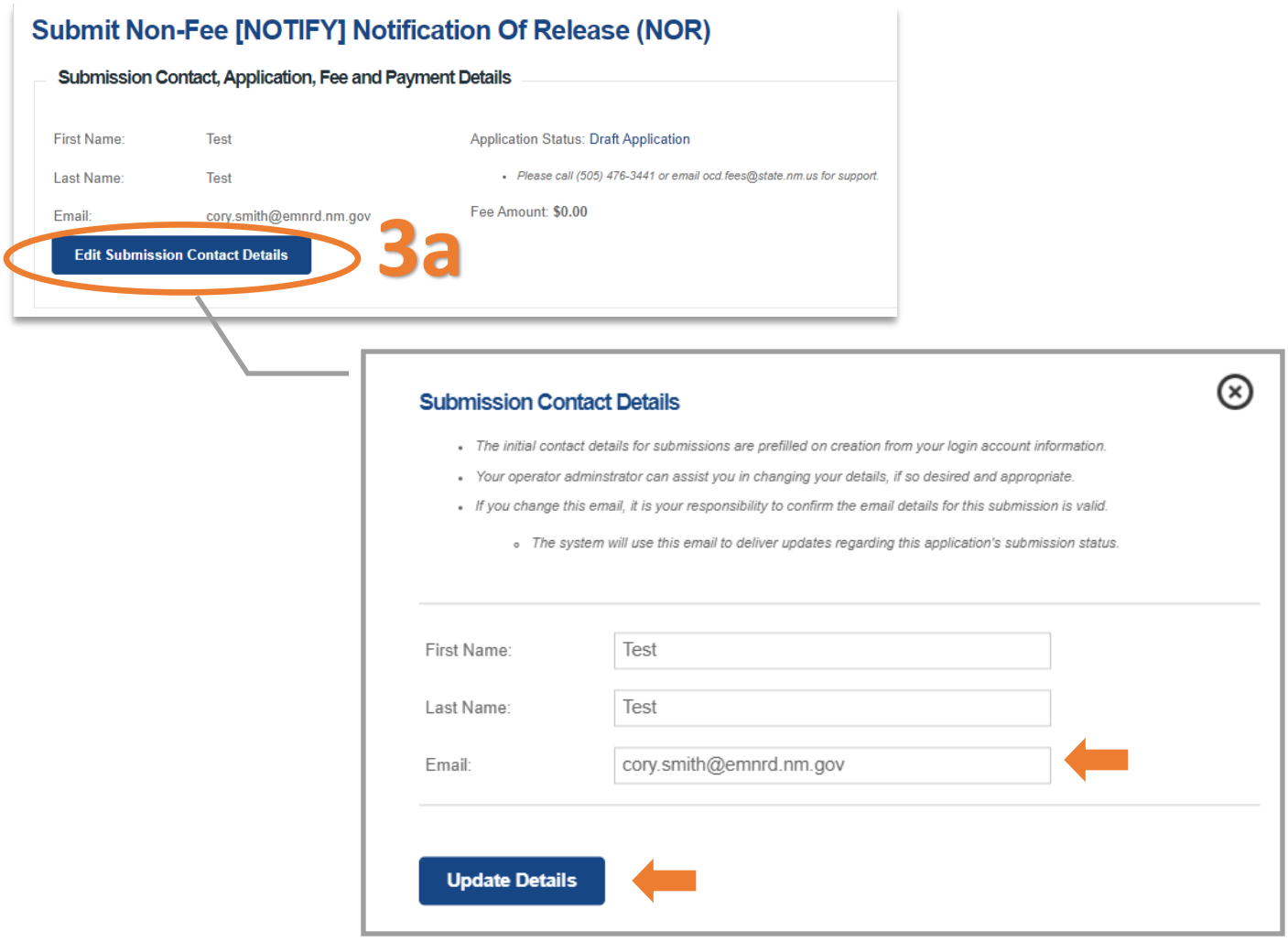


FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

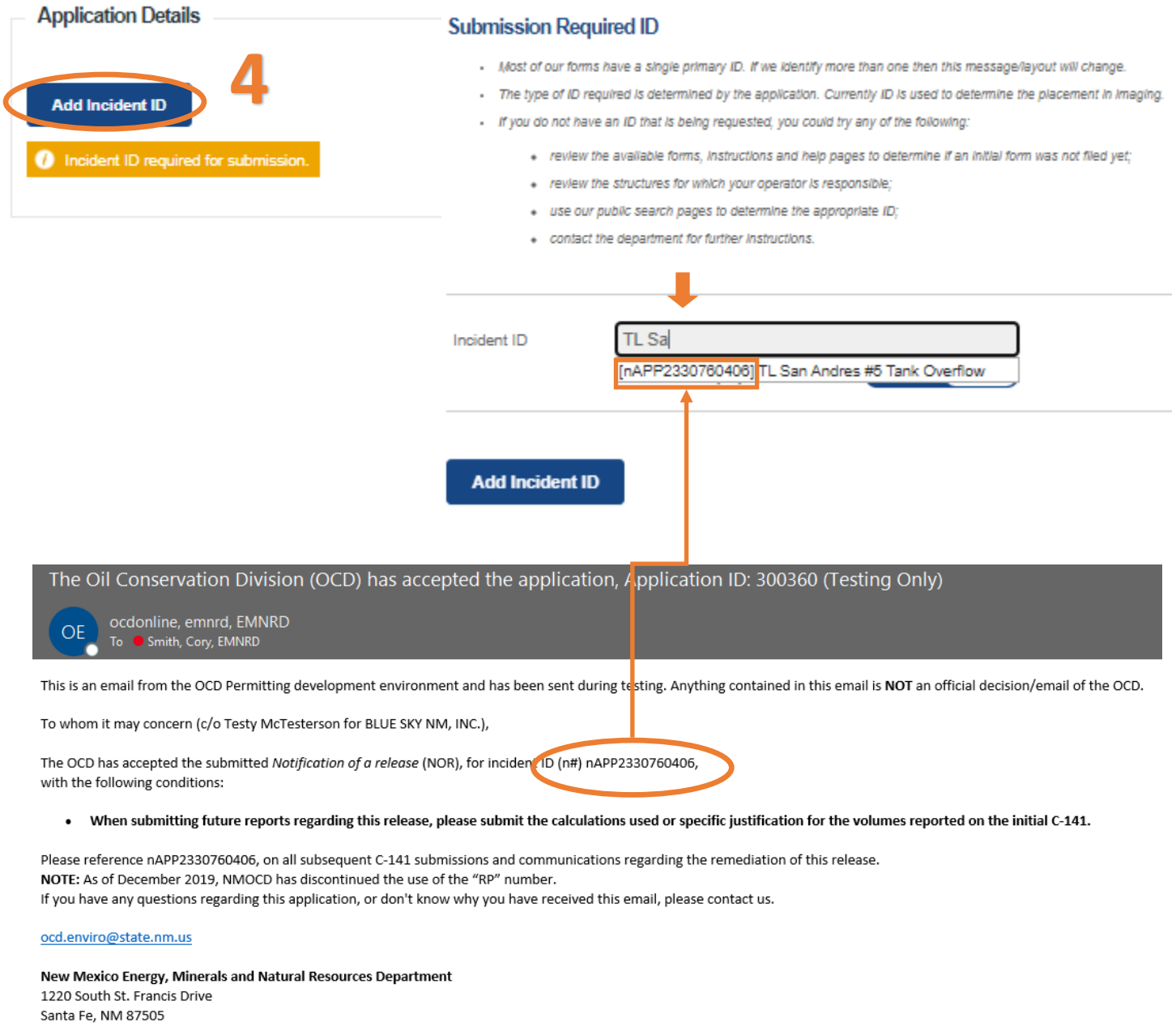


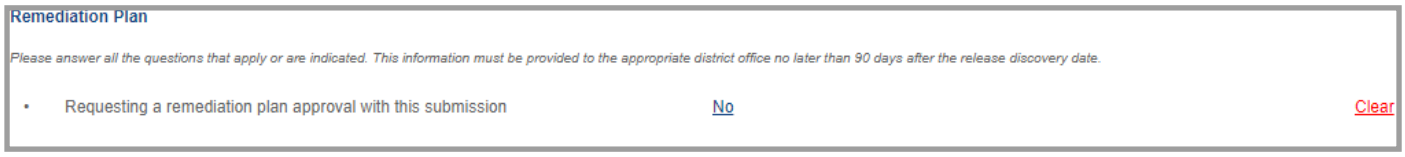
FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 applications that were submitted in Figure 1/2. This functionality works for all C-141 submissions allowing the User to correct/ validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application.

Example: The User answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as "No". This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to "Yes" .

C-141 Initial Application



C-141 Remediation Plan Application: By answering "Yes" additional Remediation Plan questions pop up.

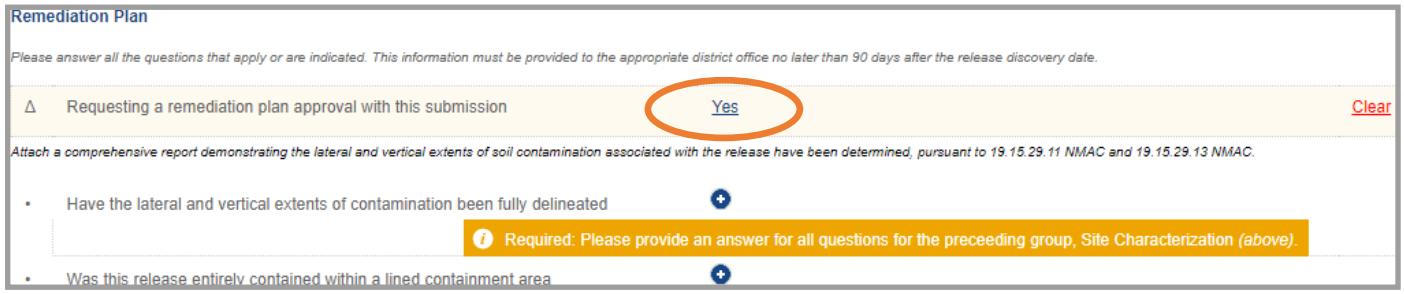
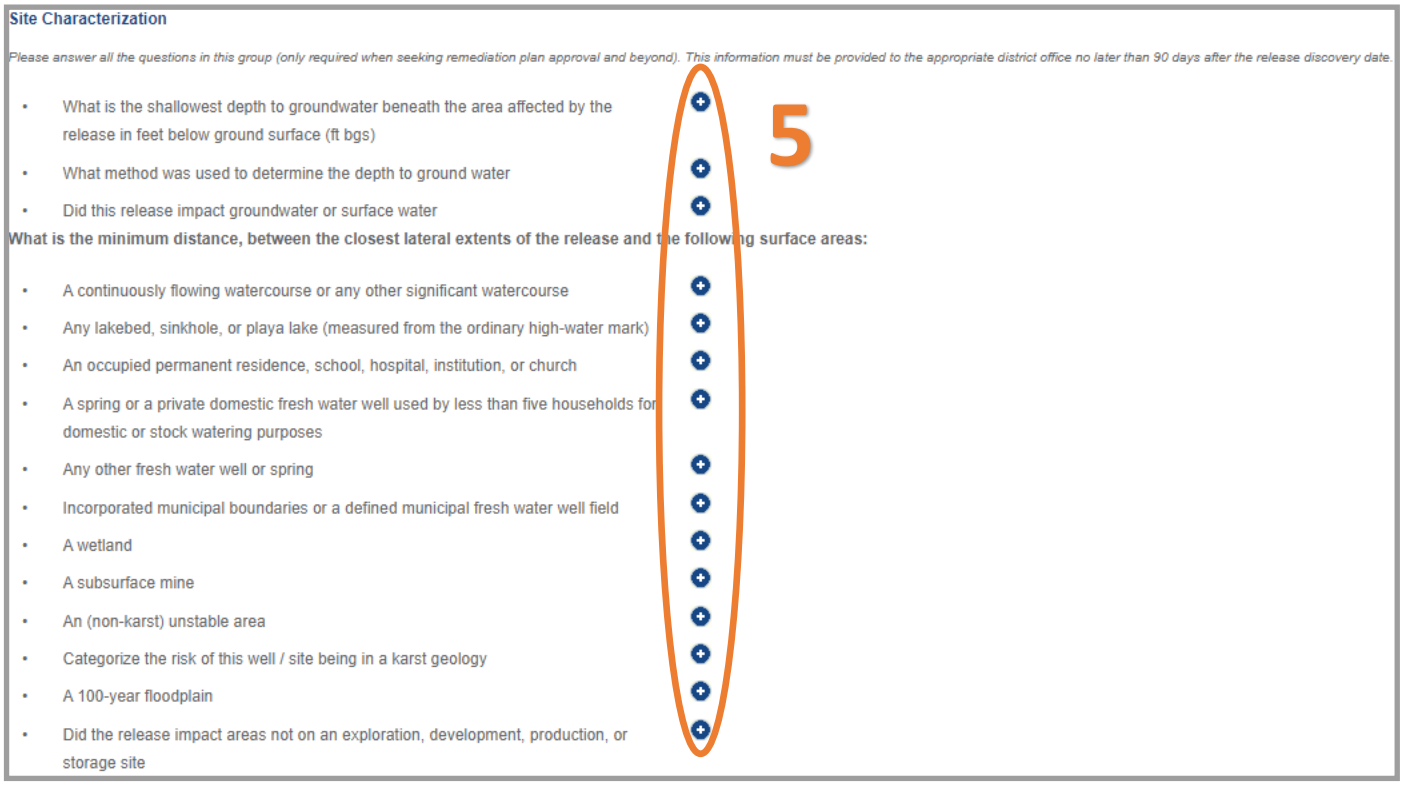


FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

5. Once the User selects Yes to Requesting a Remediation Plan approval the Site Characterization section is no longer optional and is now required to be answered. User will be familiar with these questions as they are directly from the historic C-141 form with one change. Instead of Yes/No Question OCD is introducing additional ranges to all of the questions. These changes are designed to allow the OCD to prioritize incidents.

User will need to make sure that their attached maps/topo's scales allow the OCD to verify the data.



NOTE: Selecting anything Less than 200' has the same effect on the closure standard per the rule.

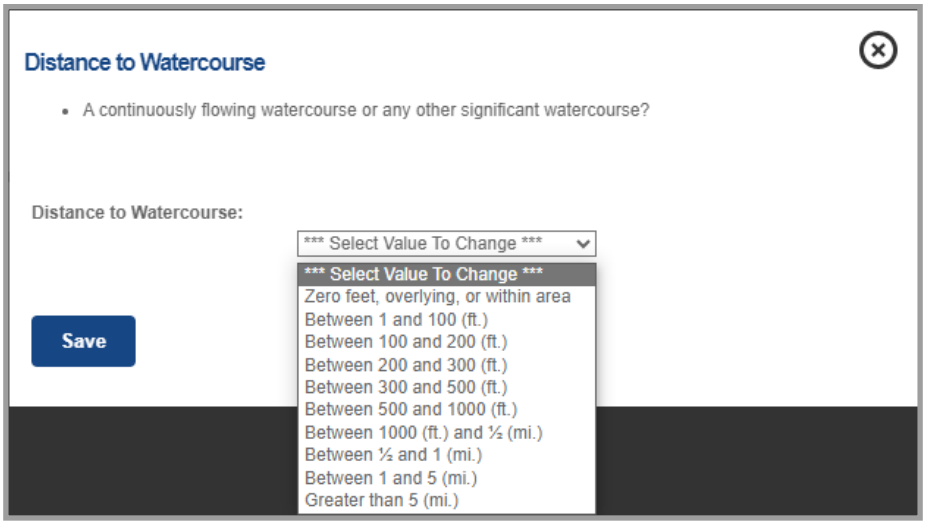


FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

6. Answer the Question “Looking for Remediation Plan Approval with this submission” as “Yes” this will open all open additional questions that are required to be answer prior to submission of a Remediation plan. The Remediation Plan section is designed to allow multiple type’s of Remediation Plans from traditional dig & haul, Liner inspections and Soil Vapor Extraction etc. Please keep in mind that Responsible party’s ar re-quired to Remediate using a Division **APPROVED** Plan. Any remediation done without an Approved plan may require additional remediation.

7. Answer the Required Questions.

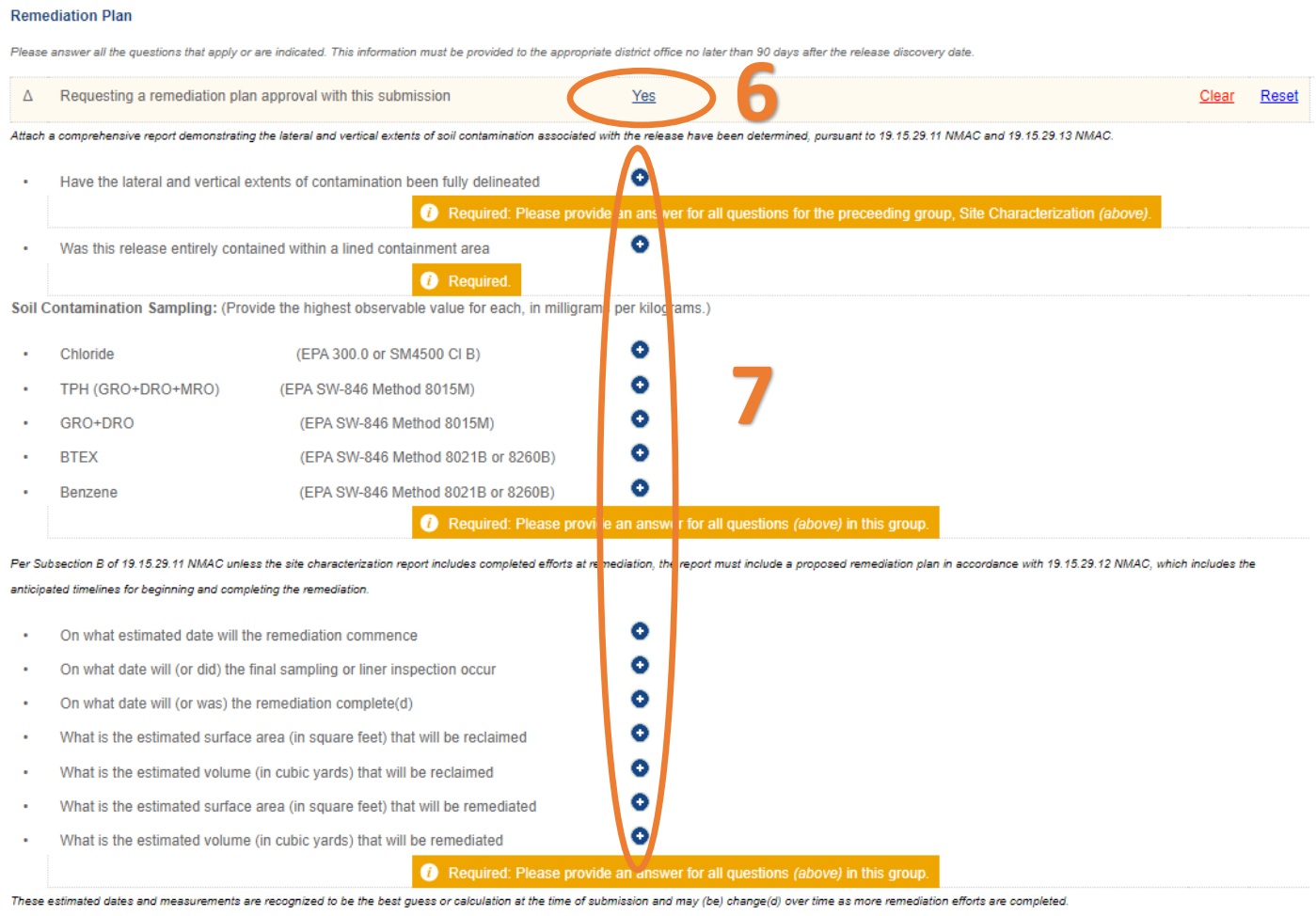


FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

7. Continued.

Δ	Have the lateral and vertical extents of contamination been fully delineated	No

All submitted remediation plans must be fully delineated except Dig & Haul which will be delineated at remediation. Answering “No” to this question will prevent Users from moving forward in Deferral situations.

Δ	Was this release entirely contained within a lined containment area	No

If your release was entirely contained within a Lined Containment answer this question “Yes” answering “No” to this question prompts remediation questions that are not applicable to Liner remediations.

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

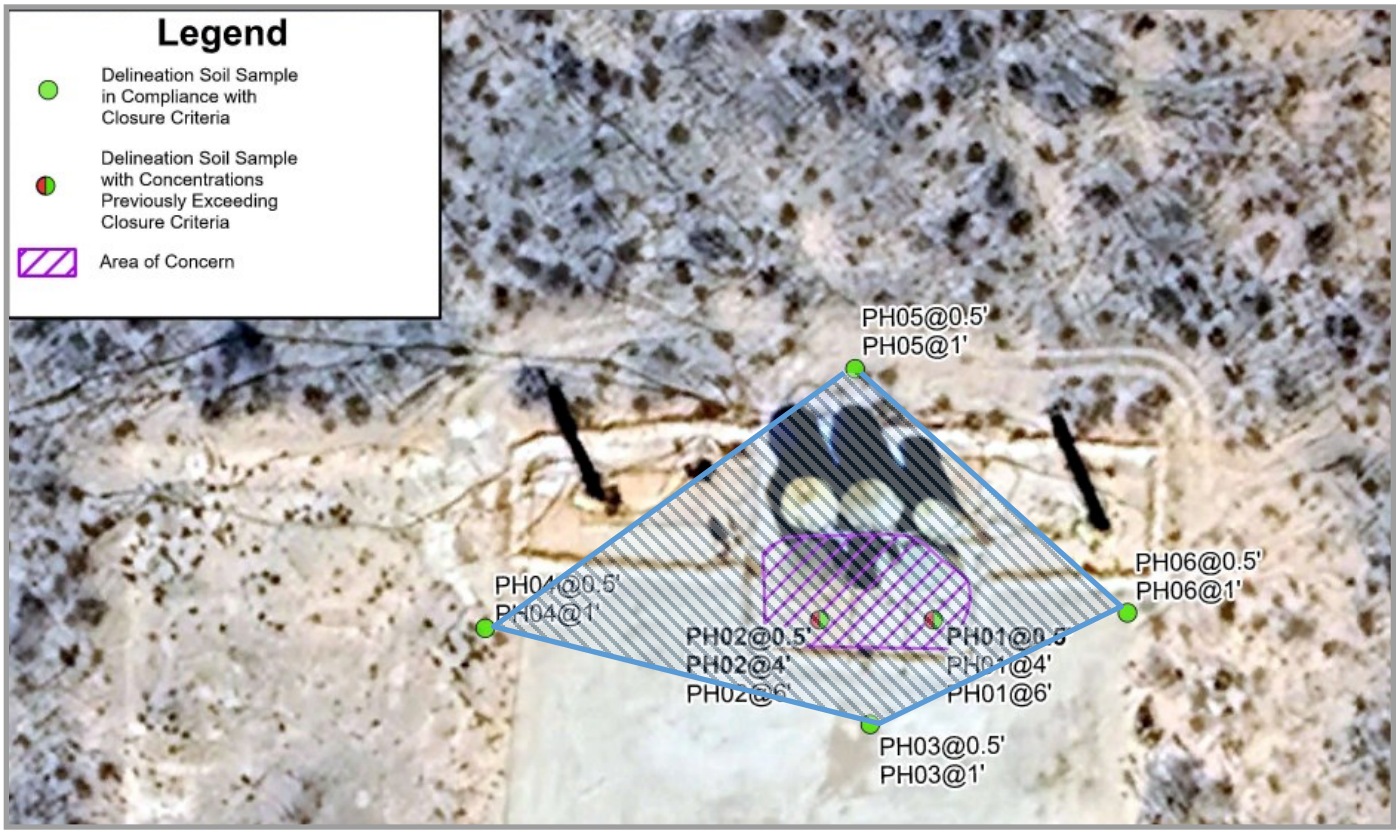
Δ	Chloride	(EPA 300.0 or SM4500 Cl B)	12688
Δ	TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1370
Δ	GRO+DRO	(EPA SW-846 Method 8015M)	258
Δ	BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Δ	Benzene	(EPA SW-846 Method 8021B or 8260B)	0

If Characterization has already been done please identify the Highest observed values the most common constituents from Table I. In the Event that the release was not sample for one of the above input a ZERO is an acceptable answer. If Site Characterization wasn't not done until remediation (Dig & Haul) enter the highest observed data from confirmation samples is also acceptable.

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

7. Continued.



- What is the estimated surface area (in square feet) that will be remediated
- What is the estimated volume (in cubic yards) that will be remediated

Remediated = Areas/volume that do not meet the Table I Standards represented by the purple shaded area above.

- What is the estimated surface area (in square feet) that will be reclaimed
- What is the estimated volume (in cubic yards) that will be reclaimed

Reclaimed = Areas/Volume from the nearest delineation points to the Area of Concern that meet the reclamation standards of 19.15.13 NMAC. This should include areas that are still reasonably needed for production operations/subsequent drilling operations represented by the light blue shaded area above.

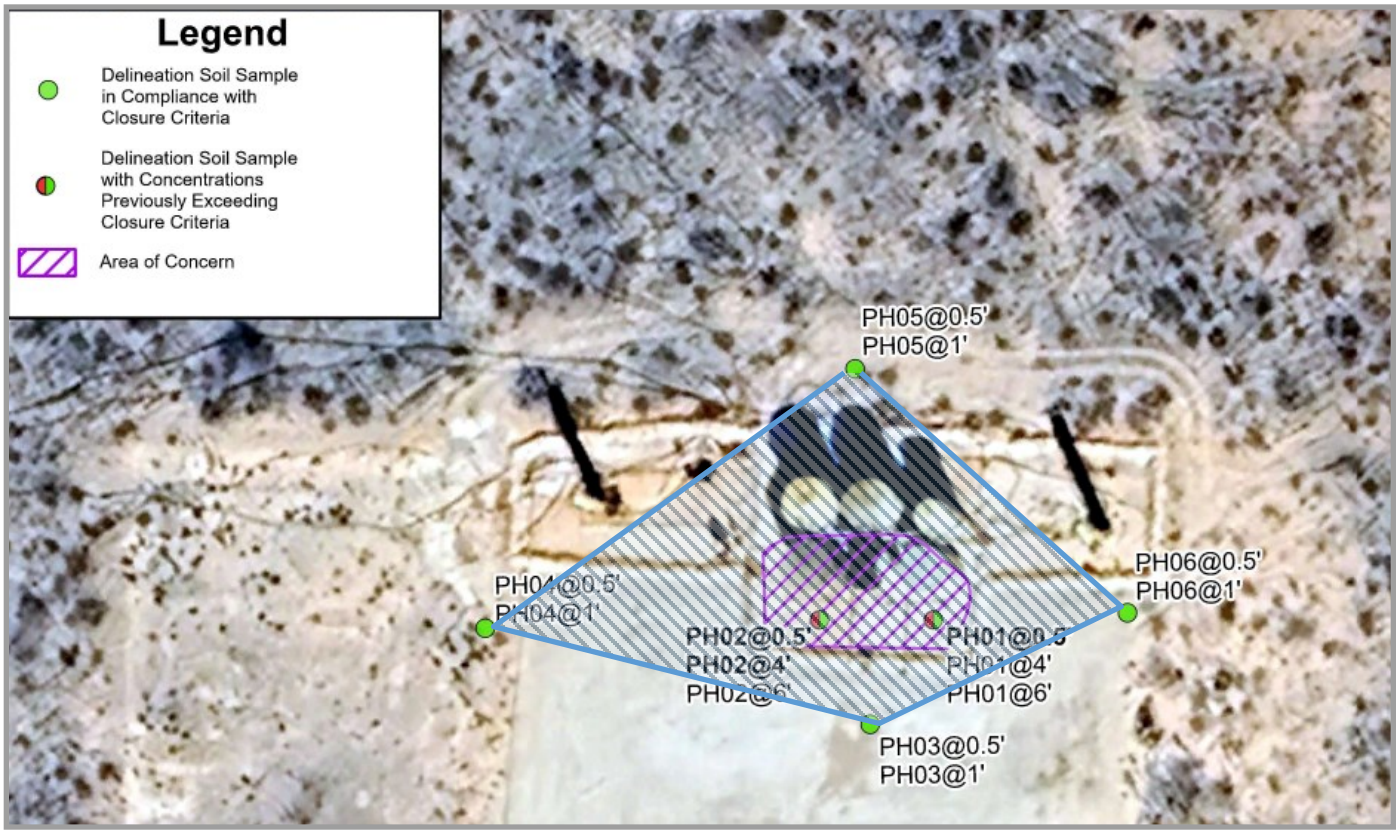
The Responsible Party **will not** have to reclaim those areas **until** they are no longer reasonably needed however these areas **must be fully** delineated.

The OCD highly recommends vertically delineating the upper four feet of the release in areas where depth is greater than 50' and does not include any criteria that would require the release to be treated as depth to groundwater is less than 50' (i.e. located in high karst, etc.) to the most stringent closure criteria in order to correctly calculate the area and volume of areas that will be reclaimed when they are no longer reasonably needed for production.

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

7. Continued.



- What is the estimated surface area (in square feet) that will be remediated
- What is the estimated volume (in cubic yards) that will be remediated

- What is the estimated surface area (in square feet) that will be reclaimed
- What is the estimated volume (in cubic yards) that will be reclaimed

Example of Completed Questions

Δ	On what estimated date will the remediation commence	11/15/2023
Δ	On what date will (or did) the final sampling or liner inspection occur	11/17/2023
Δ	On what date will (or was) the remediation complete(d)	11/20/2023
Δ	What is the estimated surface area (in square feet) that will be reclaimed	10642
Δ	What is the estimated volume (in cubic yards) that will be reclaimed	1576.6
Δ	What is the estimated surface area (in square feet) that will be remediated	1650
Δ	What is the estimated volume (in cubic yards) that will be remediated	367

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

8.Remediation Plan (continued) This allows the User to designate how the responsible party will remediate the release. The User is only required to select at a minimum one remediation approach, but if multiple apply please answer all applicable questions. Additionally this section is designed to be a high level overview of the requested remediation approach, the User will still need to include all applicable documentation for the proposed remediation technique.

*Note The example remediation techniques are examples only and do not indicate OCD approval to implement the remediation technique. Responsible party's must have a Division approved remediation plan any remediation done without an approved plan may require additional remediation.

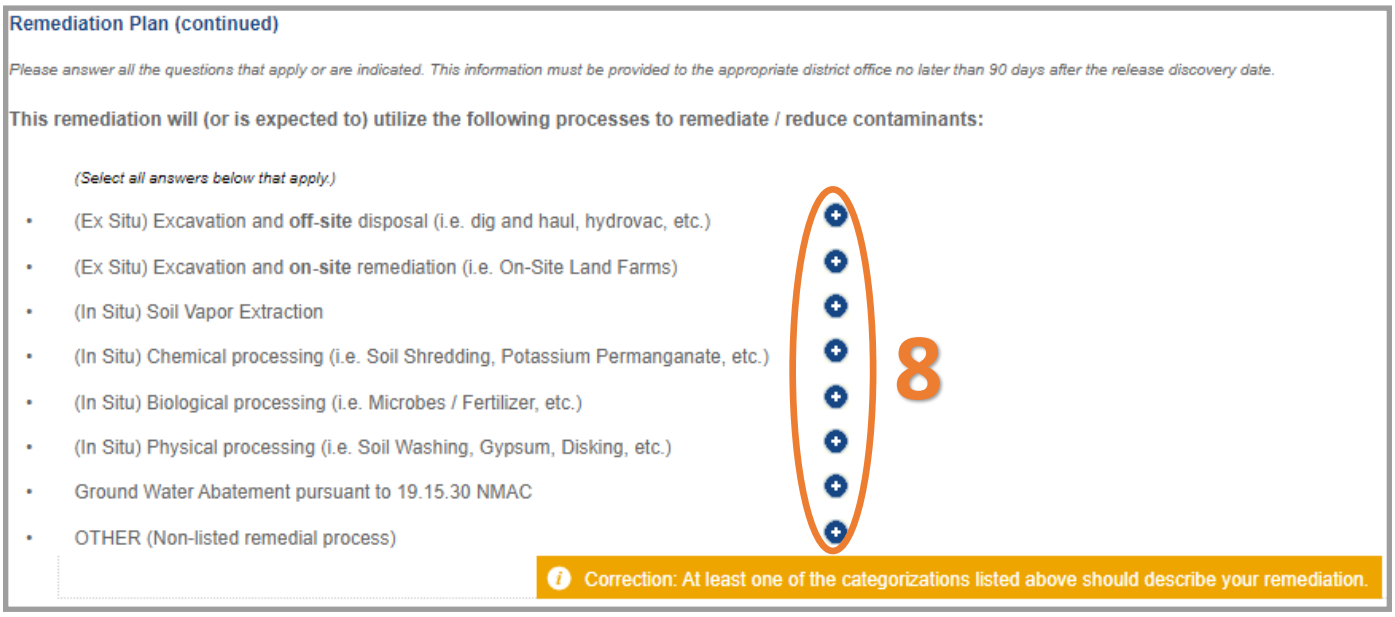


FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

8.Remediation Plan (continued)

Example Dig and Haul

Δ	(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Δ	Which OCD approved facility will be used for **off-site** disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]
•	**OR** which OCD approved well (API) will be used for **off-site** disposal	⊕
•	**OR** is the **off-site** disposal site, to be used, out-of-state	⊕
•	**OR** is the **off-site** disposal site, to be used, an NMED facility	⊕

User will be required to select the Facility (R360 Above) were the impacted soil will be sent to.

Example Hydrovac to SWD

Δ	(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
•	Which OCD approved facility will be used for **off-site** disposal	⊕
Δ	**OR** which OCD approved well (API) will be used for **off-site** disposal	30-015-45034 RUSTLER BREAKS SWD #006
•	**OR** is the **off-site** disposal site, to be used, out-of-state	⊕
•	**OR** is the **off-site** disposal site, to be used, an NMED facility	⊕

Users who intend to dispose of PW at an Salt Water Disposal or other type of Well will use this section.

Example Out of State Disposal

Δ	(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
•	Which OCD approved facility will be used for **off-site** disposal	⊕
•	**OR** which OCD approved well (API) will be used for **off-site** disposal	⊕
Δ	**OR** is the **off-site** disposal site, to be used, out-of-state	Yes
Δ	In which state is the disposal taking place	Texas
Δ	What is the name of the out-of-state facility	ACME Land Farm
•	**OR** is the **off-site** disposal site, to be used, an NMED facility	⊕

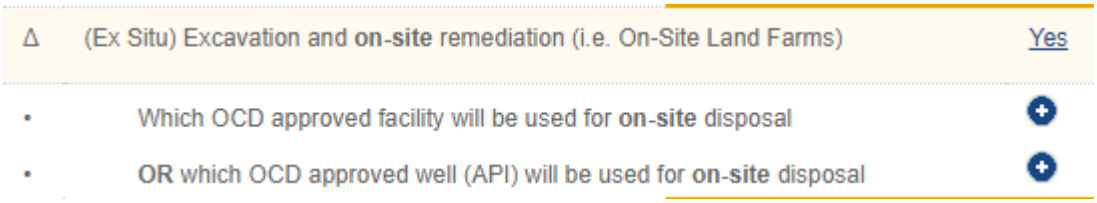
Out of State disposal must be in compliance with any applicable Rules/Regulations of the receiving State.

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

8. Remediation Plan (continued)

Example Onsite Land Farm



Onsite Land farms require approval of an additional permit through the OCD pursuant to 19.15.36 NMAC

9. When requestion Remediation Plan Approval the User must submit 1 or more attachments that include the below attachment tags. User must review their attached document to ensure that all of the items being requested are in their attached file. Attachments/Tags will be likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.

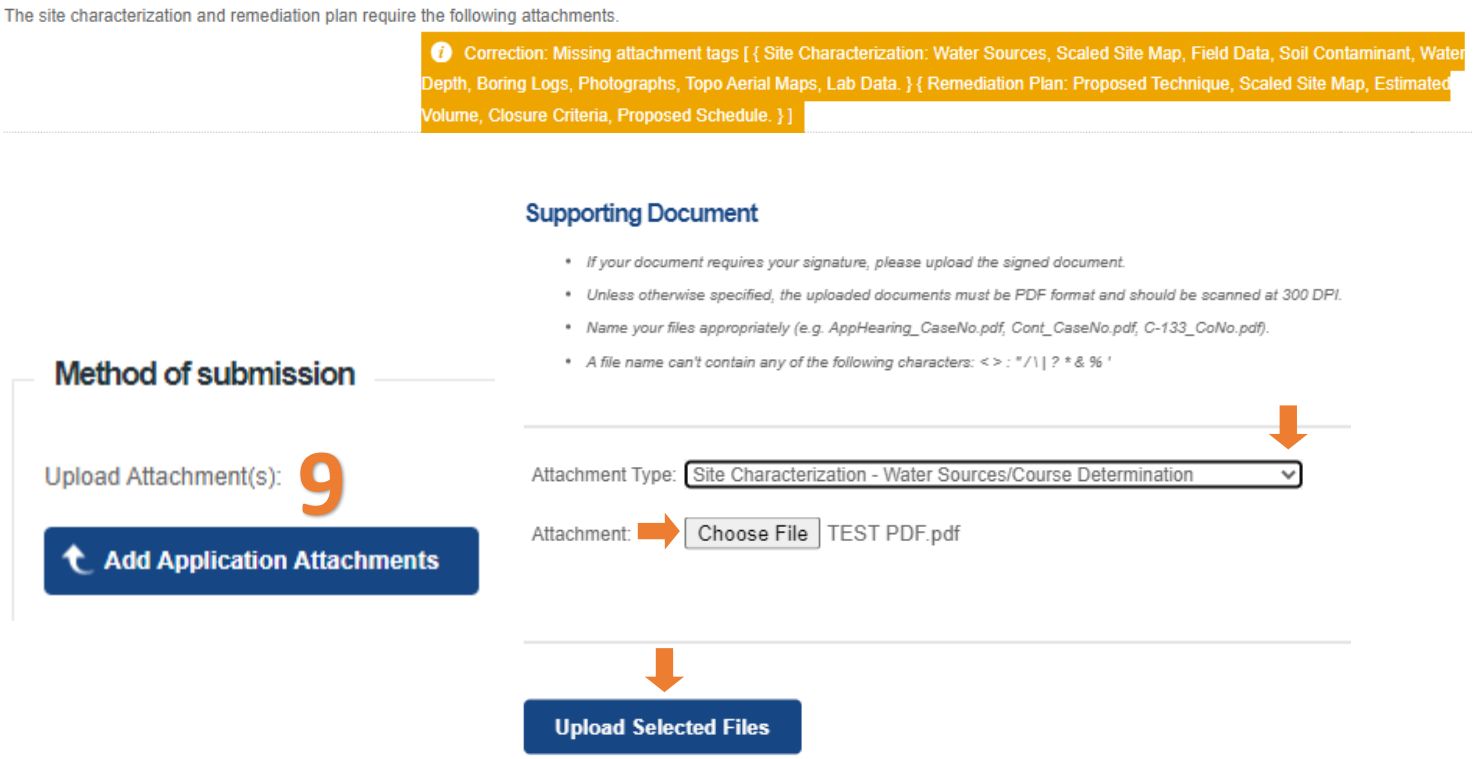


FIGURE 3

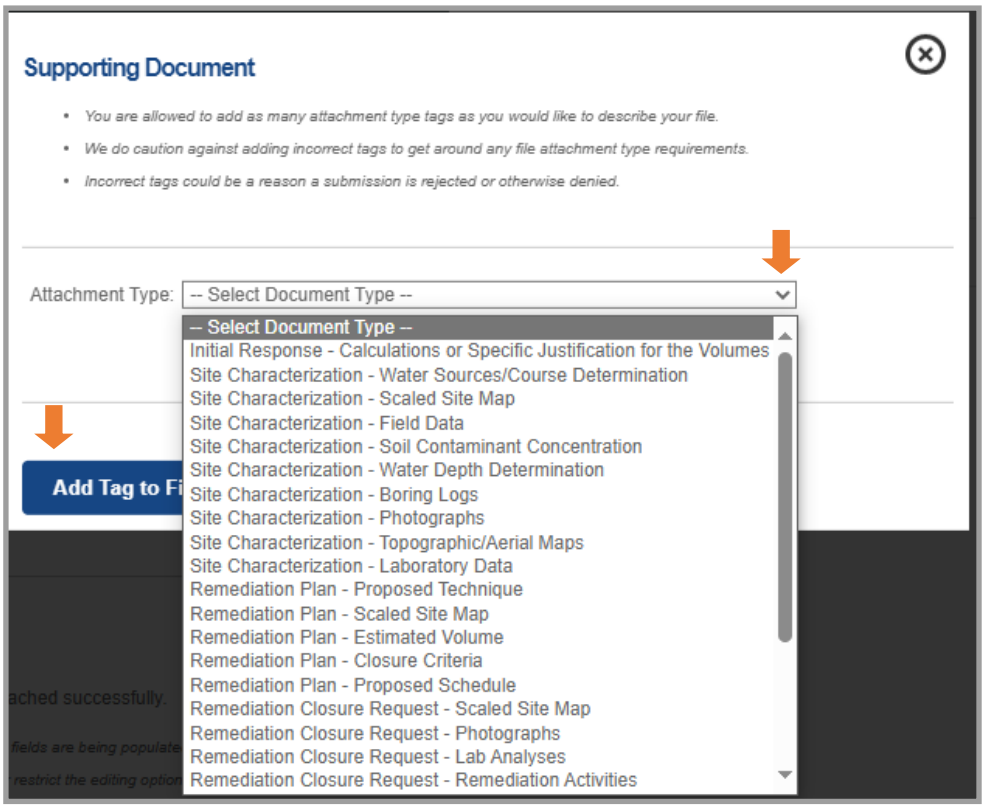
SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

9.Remediation Plan Attachments (continued)

At this current time User may also add multiple tags to a single file that may contain multiple attachments types. To add multiple tags Left click the Add Tag button next to the Attached File. Select the Tag type from the Drop down and Left click Add Tag to file. Repeat this step to add multiple tags.

Upload Attachment(s):

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
Water Sources, Scaled Site Map Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete
	Files: 1 Total Size: 36.7 KB	



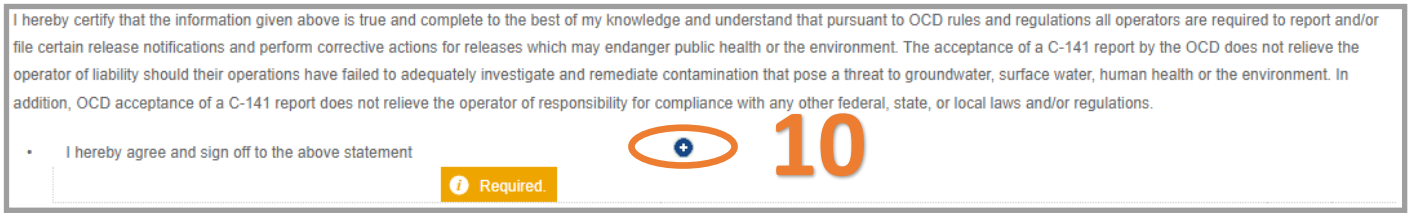
Upload Attachment(s):

Attachment Type (Description) Tag(s)	Original Uploaded File Name	
Water Sources, Scaled Site Map, Field Data, Soil Contaminant, Water Depth, Boring Logs, Photographs, Topo Aerial Maps, Lab Data, Proposed Technique, Scaled Site Map, Estimated Volume, Closure Criteria, Proposed Schedule Add Tag	TEST PDF.pdf (36.7 KB) Replace File	Delete
	Files: 1 Total Size: 36.7 KB	

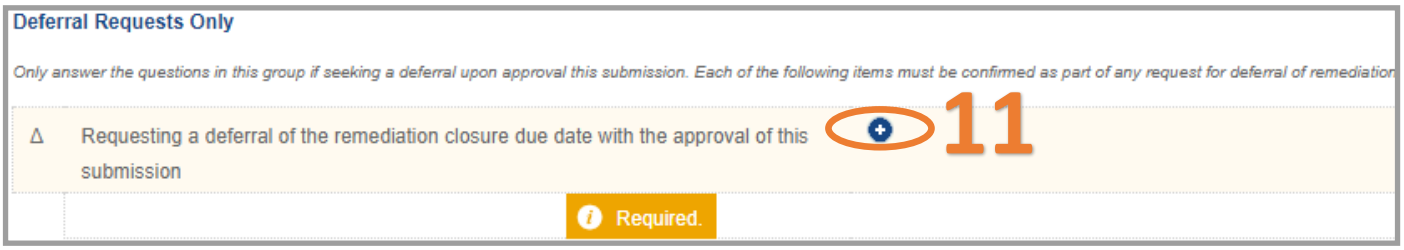
FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

10. Once all of the questions have been Answered the User must Certify and Digital Sign the application.



11. The User must answer if they are requesting a Deferral with this submission. If answered no this submission will be classified as a Remediation Plan. If Answered Yes the submission will be identified as a Deferral Request. This submission will also count as an Initial C-141 + Remediation Plan + Deferral if there are no previous approved dates on file.



11a. The User must complete the following questions for Deferral Request. Sites that have not been delineated pursuant to 19.15.11 NMAC cannot be granted a deferral. Contamination in areas that don't require a major facility deconstruction, or pose an imminent risk to human health or the Environment cannot be deferred.

Major Facility Deconstruction: Typically involves concrete poured pads, structures, engineered designed facilities that include automation/electrical lines, sprayed in liners, etc. OCD will review each deferral request on a case by case basis.

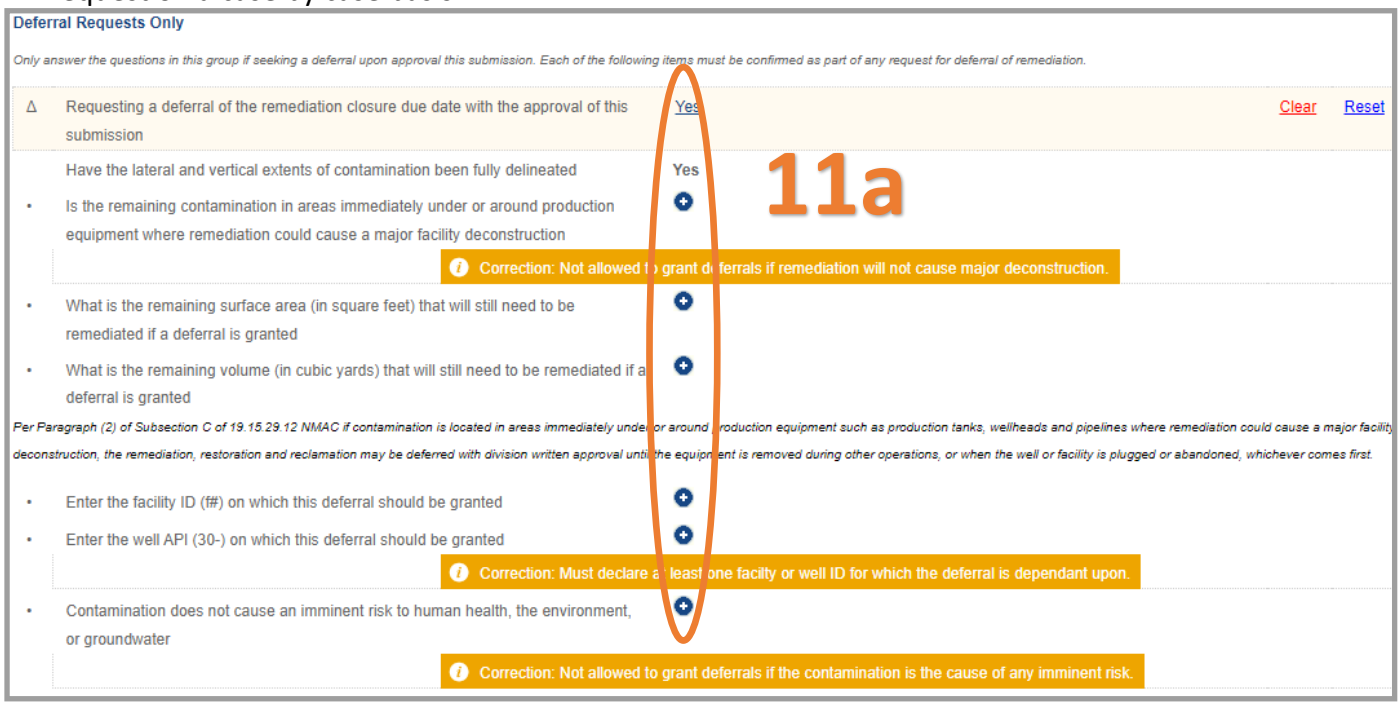
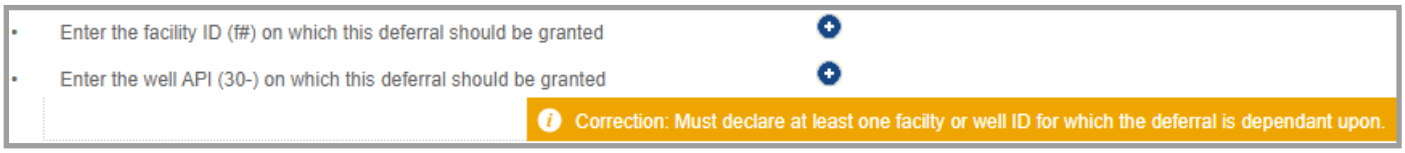


FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

11a *Continued* User will need to Identify which facility/API# that they are requesting the Deferral should be granted on. If your release is on a one Well pad the enter the API#. If your release is on a multi-well pad then include at least 1 API# from the pad and/or the Facility ID# if applicable. These API#/Facilities may be different then the main association as identified in the NOR application.



12. The User now must answer if they are requestion a Remediation Closure approval with this submission. If the user answer no this submission will be classified as a Remediation Plan. If the User selects yes and there is not an approved Initial C-141 on file this submission will ALSO count as a Initial C-141 + Remediation plan + Remediation Closure Request (Figure 5).

    Please note that OCD does not approve partial applications in the event that the User submits an Initial + Remediation Plan and the application is rejected both C-141 will be rejected.

13. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application queue.

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Once the user has submitted the C-141 Remediation Plan to the OCD. The User email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides a PO Number that can be searched on the OCD Action Status page.

PO Number: KITLT-231108-C-1410
Payment Date: 11/13/2023
Payment Amount: $150.00
Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action
Fee Amount: $150.00
Application Status: Under OCD Review

OGRID: 300825
First Name: Test
Last Name: Test
Email: cory.smith@emnrd.nm.gov

At this state the Remediation Plan C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home › Submissions › Releases › C-141

Status: Under OCD Review

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
KITLT-231108-C-1410	C-141	nAPP2330760406	Under OCD Review	$150.00	Credit Card	11/8/2023	Test Test	11/13/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [300825] BLUE SKY NM, INC.
Status: Remediation Plan Received, Pending OCD Review
Type: Produced Water Release
District: Artesia
Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 3

SUBMITTING A SITE CHARECTERIZATION & REMEDIATION PLAN(C-141-V-PLAN)

Example of Rejected Application.

The Oil Conservation Division (OCD) has rejected the application, Application ID: 300396 (Testing Only)

OE ocdonline, emnrd, EMNRD
To Smith, Cory, EMNRD

Reply | Reply All | Forward

Mon 11/13/2023 2:38 PM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2330760406, for the following reasons:

- **The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.** This is where Conditions of Approval or Reason of Rejection would be stated if there were any.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 300396.
Please review and make the required correction(s) prior to resubmitting.
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

At this state the Remediation Plan C-141 Application is has been Processed (Approved or Rejected) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status: Rejected by the OCD

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
KITLT-231108-C-1410	C-141	nAPP2330760406	Rejected by the OCD	$150.00	Credit Card	11/8/2023	Test Test	11/13/2023

Remember rejected applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Initial C-141 which was approved.

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator		
Type:	Produced Water Release	Severity:	Major
		Surface Owner:	Private
District:	Artesia	County:	Chaves (05)

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

OCD is implementing two "New" submission pipelines that accompany C-141 submissions. The Notification of Liner Inspection (C-141L) is required pursuant to 19.15.29.11.A(5)(a)(ii) NMAC and the Notification of Final "Confirmation" Sampling (C-141N) is required pursuant to 19.15.29.12.D(1)(a). Historically, these notifications were processed via phone/e-mail which have been proven to be unwieldy and inefficient. Users will now complete the Notices through OCD permitting.

SUBMITTING A LINER INSPECTION NOTICE

Operators will use this notice when they have a release entirely contained in a lined containment and are ready to provide the required 2 business day notice for the final liner inspection.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [NOTIFY] Notification of Liner Inspection.

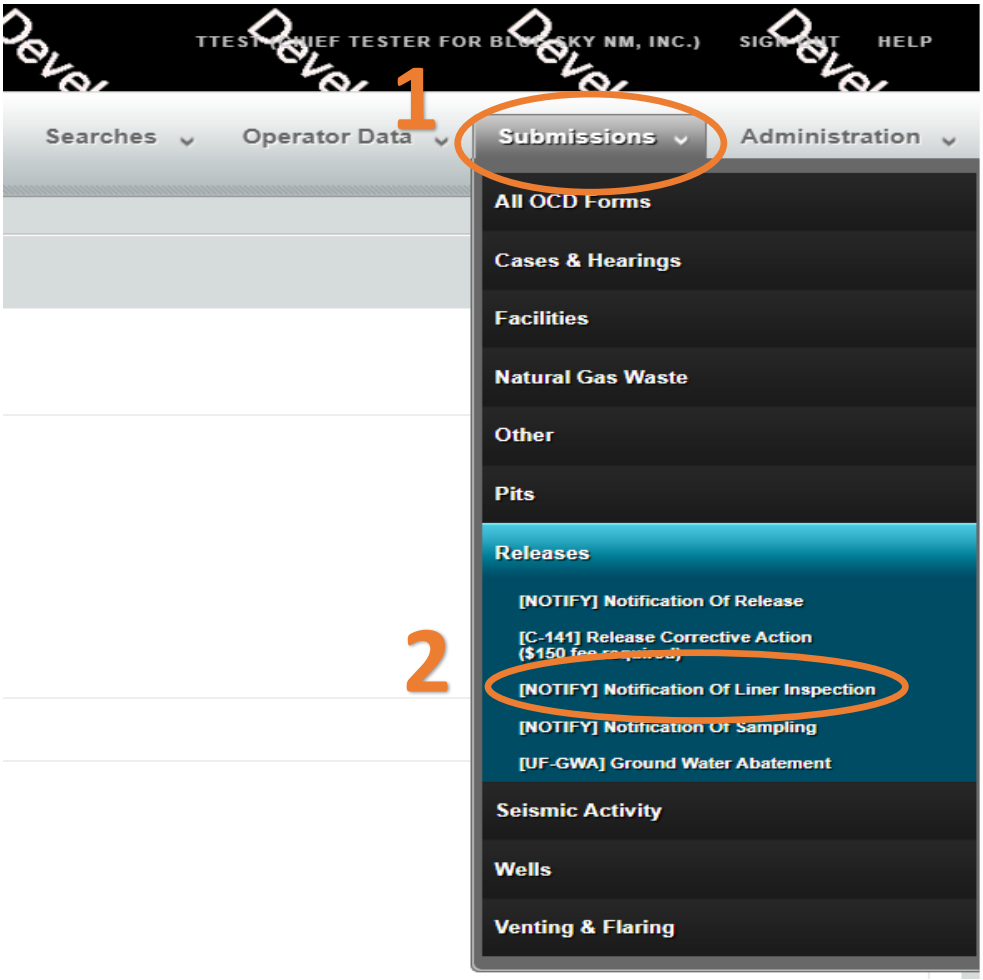


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

On this Permitting page, users can review the status of all previous created/submitted/approved/rejected Notification of Liner Inspection for their current OGRID . The User can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

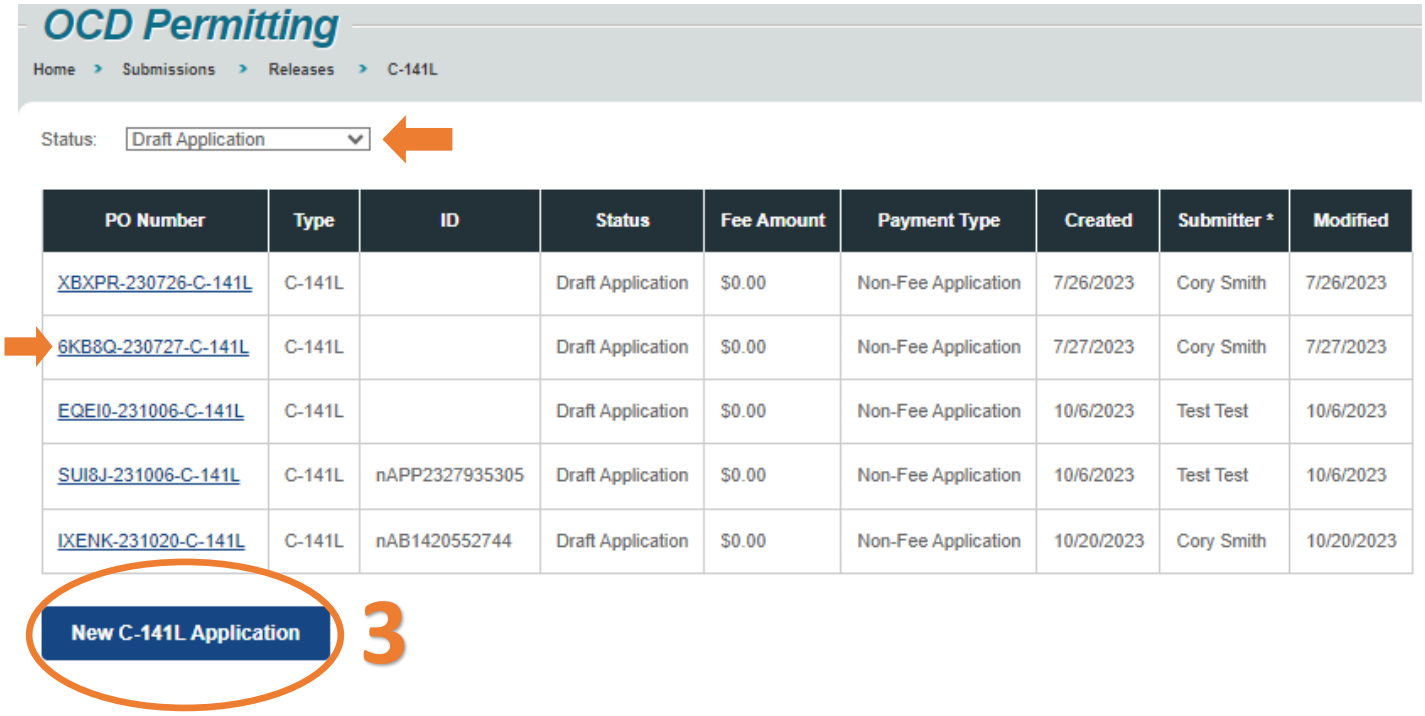


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based up-on the User's default contact information. The contact e-mail used in this section is where any approvals/ rejections will be sent too. In the event that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

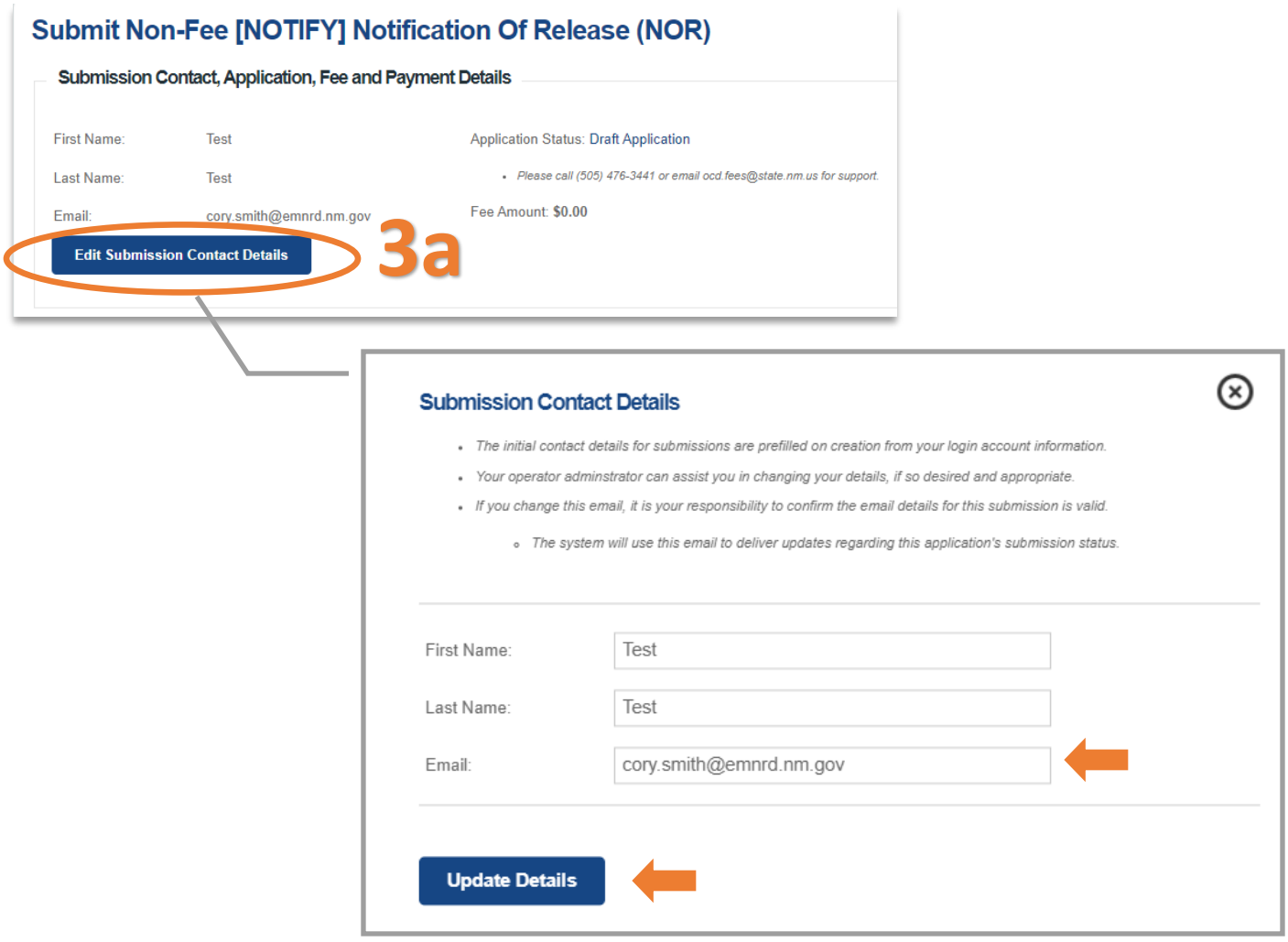


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively, if in your NOR application, you gave your release a custom site name you can also search by typing in the name into the box.

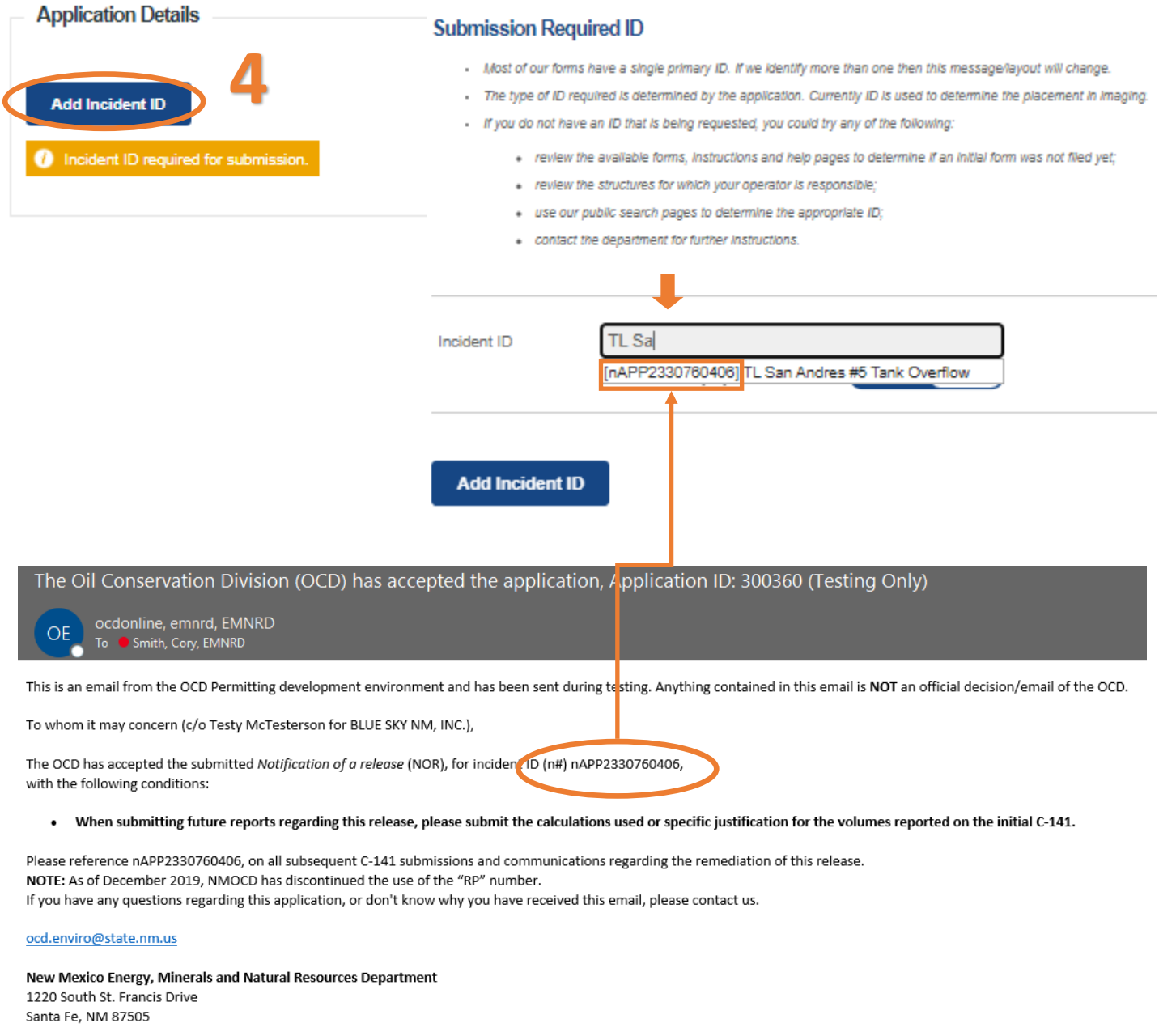
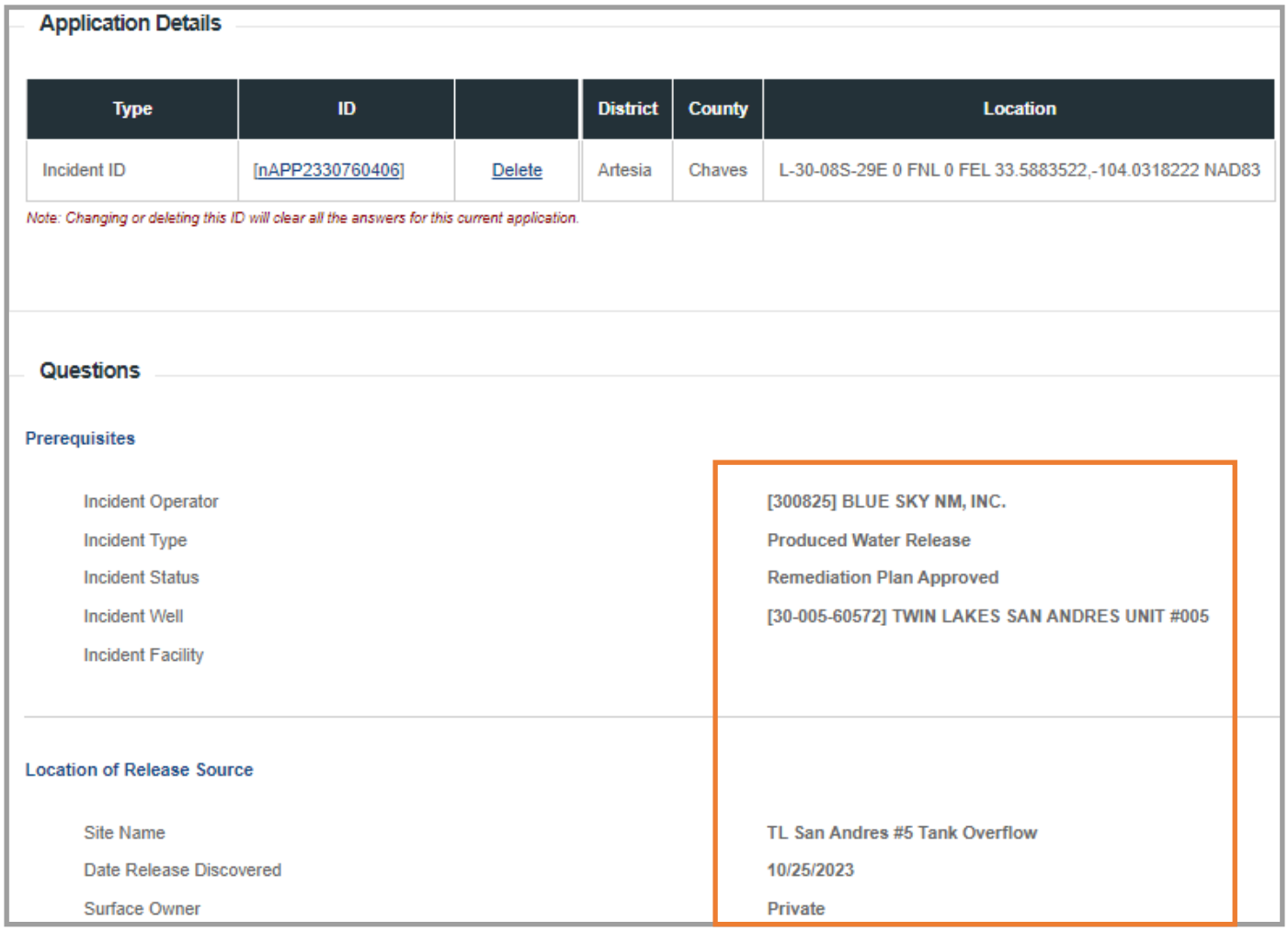


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

Once you have entered a valid incident number the applications will populate data based upon answers that were submitted in the Notice Of Release application and the status of the incident based upon approvals of C-141 applications. Users should verify that the data is correct and that they are providing notice to the correct incident.



Application Details

Type	ID		District	County	Location
Incident ID	[nAPP2330760406]	Delete	Artesia	Chaves	L-30-08S-29E 0 FNL 0 FEL 33.5883522,-104.0318222 NAD83

Note: Changing or deleting this ID will clear all the answers for this current application.

Questions

Prerequisites

Incident Operator	[300825] BLUE SKY NM, INC.
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Incident Facility	

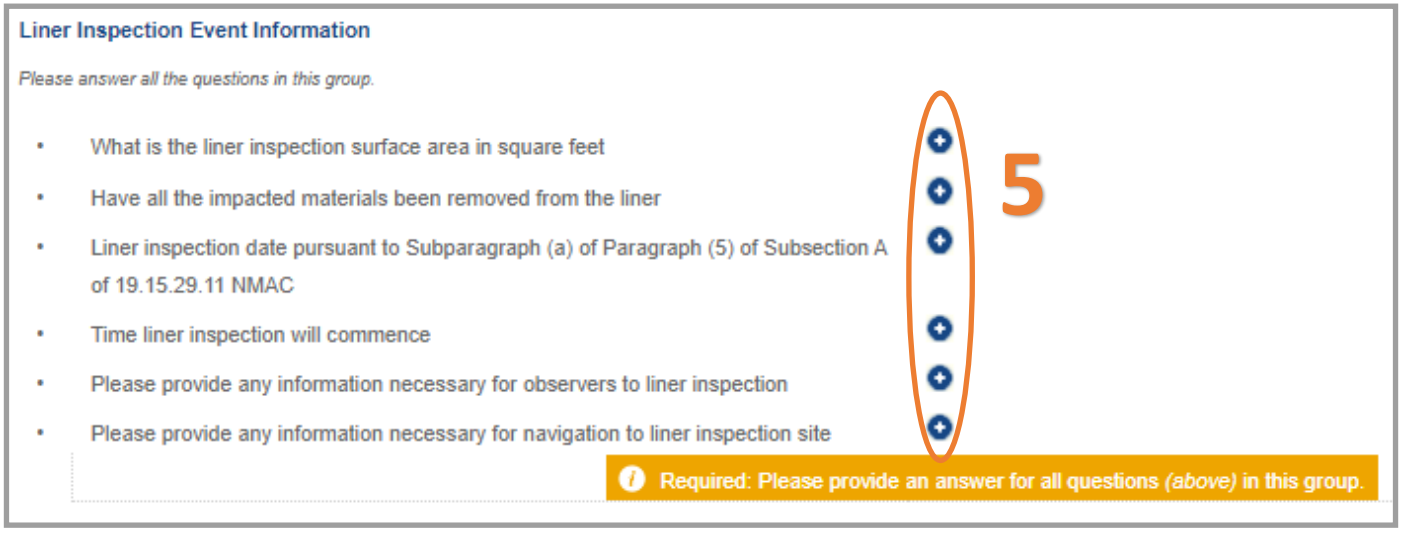
Location of Release Source

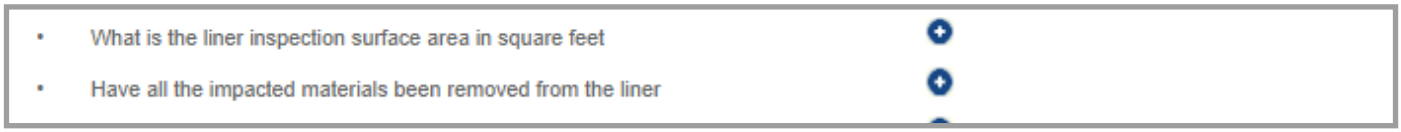
Site Name	TL San Andres #5 Tank Overflow
Date Release Discovered	10/25/2023
Surface Owner	Private

FIGURE 4

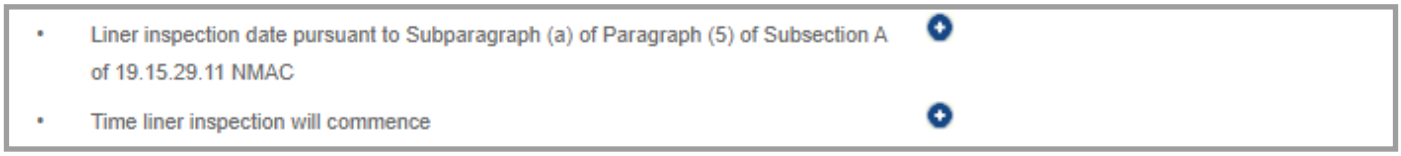
SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

5. Liner Inspections have 6 required questions that must be answered prior to submission.

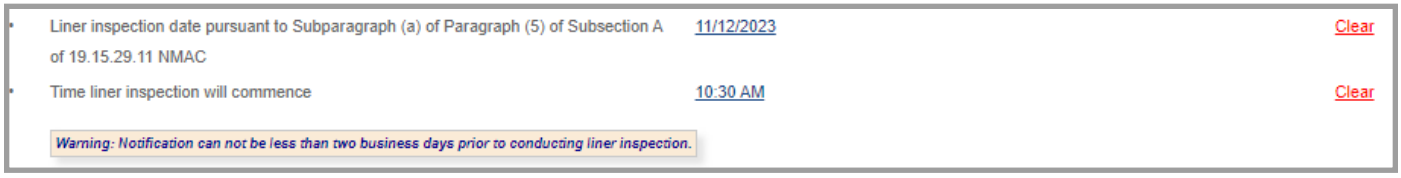




Users will provide the surface area rounded to the nearest whole number of the liner that is to be inspected. Additionally **all** impacted materials (i.e. gravel/sand) must be removed prior to the inspection so that the entire area of the liner that was impacted is visible for inspection.



Users will provide the Date (MM/DD/YYYY) and Time (hh:mm: AM/PM Mountain Time) that the liner inspection is scheduled. Inspections that are completed outside of the notified time may be rejected by the OCD, and additional inspections may be required. In the event that the date/time changes, submit an additional notice ASAP.

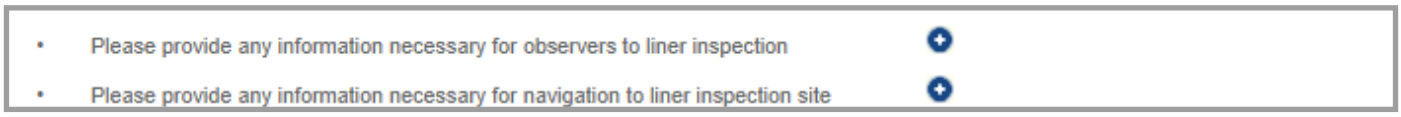


NOTE: At this current time, due to this being a new process, OCD Permitting will provide a warning that your notice does not meet the requirements of two business days. The User may continue to submit applications with this error. However, this will likely change in future development. This is a compliance issues pursuant to 19.15.29.11.A(5)(a)(ii) NMAC and can be subject to compliance actions pursuant to 19.15.5 NMAC.

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

5. *Continued*



Users will provide any information necessary for the Observers of the Liner inspection:
Examples: Business contact phone numbers. Details of the inspection.

Users will provide any info necessary for navigation to the Liner Inspection Site.
Examples: 23 miles south of Artesia turn Left at Mile Post. Location has a locked gate etc.

Follow best practices for not including Personal Identifiable Information (PII), This data is public DO NOT include any gate combination codes, or Private Names/Addresses/Phone Numbers, only Business contacts. OCD anticipates that Notifications of Liner Inspections and Sampling will be further developed in later phases.

6. Review your Notification for accuracy and completeness. This is the last chance to make any corrections to this data before submitting the document to the OCD.

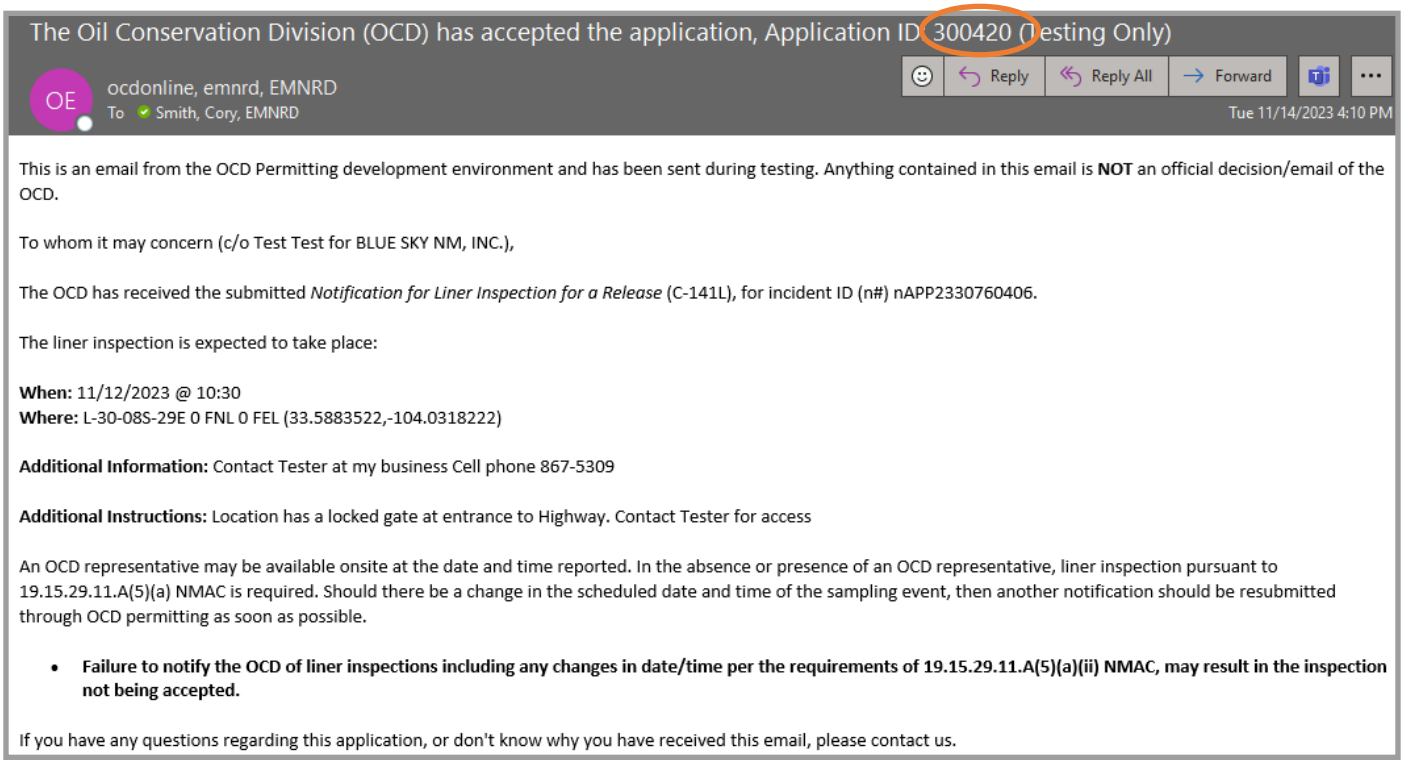
Clicking the Delete button will clear the entire application and remove it from your application queue.

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

Once the user has submitted the Notice of Liner Inspection to the OCD, the user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov indicated that the Notice was accepted. Additionally, the email will provide the user with the incident # (napp2330760406) for verification.

OCD Permitting also automatically will notify the assigned incident review of the notice and adds a sampling Notice date to the incident Date Stack.



The Oil Conservation Division (OCD) has accepted the application, Application ID: 300420 (Testing Only)

OE ocdonline, emnrd, EMNRD
To Smith, Cory, EMNRD

Reply | Reply All | Forward | ... Tue 11/14/2023 4:10 PM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The OCD has received the submitted *Notification for Liner Inspection for a Release* (C-141L), for incident ID (n#) nAPP2330760406.

The liner inspection is expected to take place:

When: 11/12/2023 @ 10:30
Where: L-30-08S-29E 0 FNL 0 FEL (33.5883522,-104.0318222)

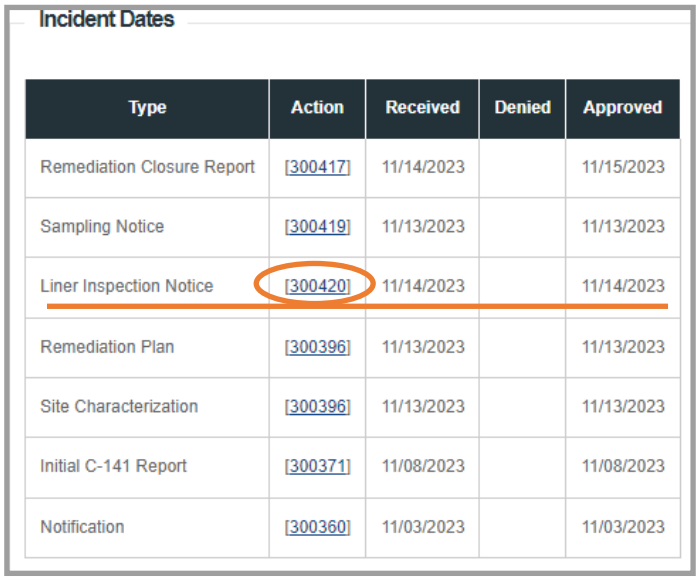
Additional Information: Contact Tester at my business Cell phone 867-5309

Additional Instructions: Location has a locked gate at entrance to Highway. Contact Tester for access

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, liner inspection pursuant to 19.15.29.11.A(5)(a) NMAC is required. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.**

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



Incident Dates

Type	Action	Received	Denied	Approved
Remediation Closure Report	[300417]	11/14/2023		11/15/2023
Sampling Notice	[300419]	11/13/2023		11/13/2023
Liner Inspection Notice	[300420]	11/14/2023		11/14/2023
Remediation Plan	[300396]	11/13/2023		11/13/2023
Site Characterization	[300396]	11/13/2023		11/13/2023
Initial C-141 Report	[300371]	11/08/2023		11/08/2023
Notification	[300360]	11/03/2023		11/03/2023

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

SUBMITTING A SAMPLING NOTICE

Operators will use this notice when they have a release not entirely contained in a lined containment and are ready to provide the required 2 business day notice for Confirmation "Final" sampling for areas that have been remediated.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [NOTIFY] Notification of Sampling.

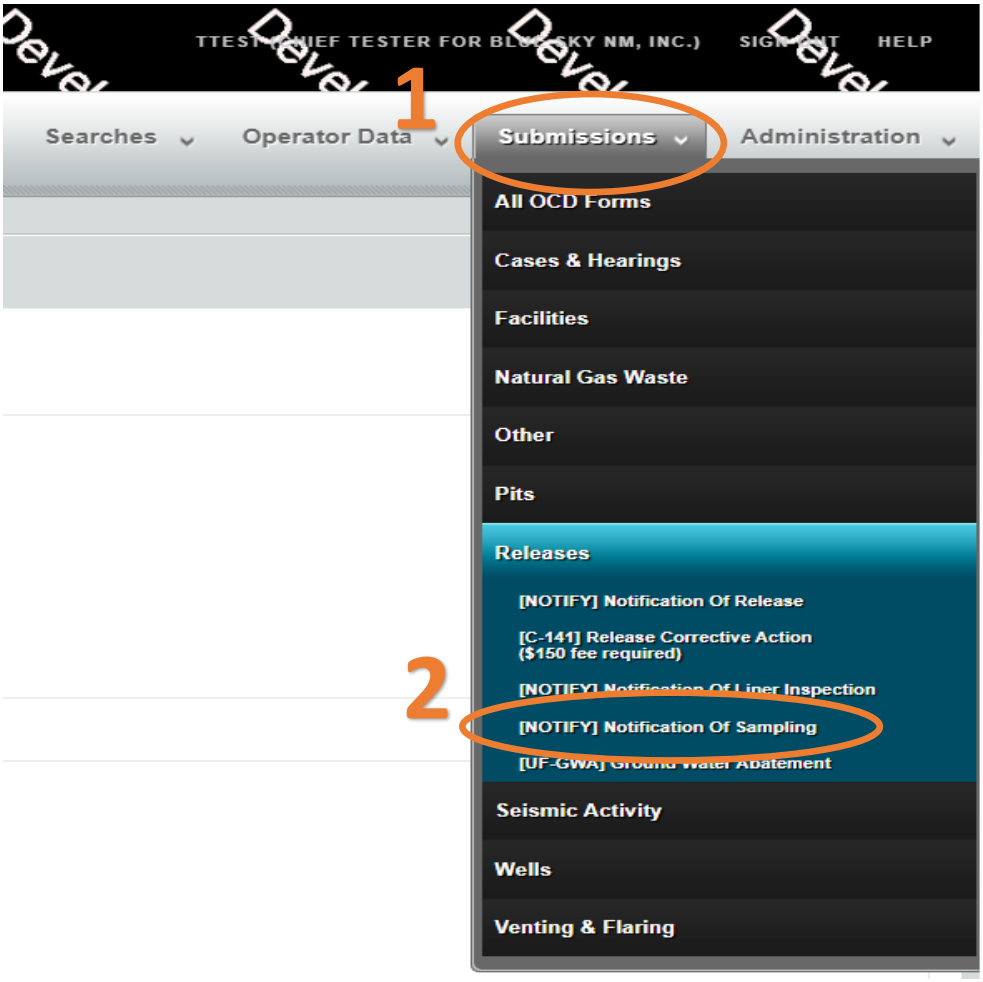


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

On this Permitting page users can review the status of all previous created/submitted/approved/rejected Notification of Liner Inspection for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

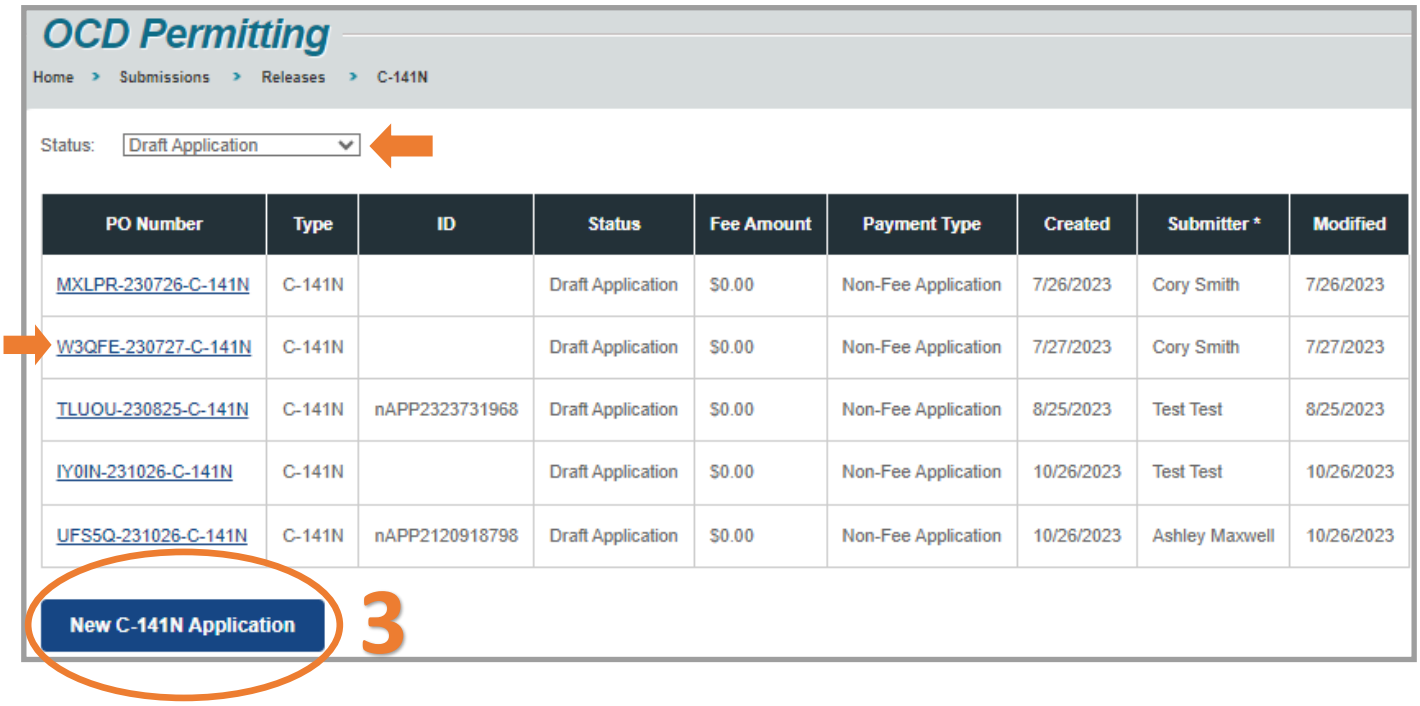


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the users default contact information. The contact e-mail used in this section is where any approvals/ rejections will be sent too. In the even that you are submitting this on behalf of another member of your organization you may edit the contact information by clicking on the edit submissions contact details button.

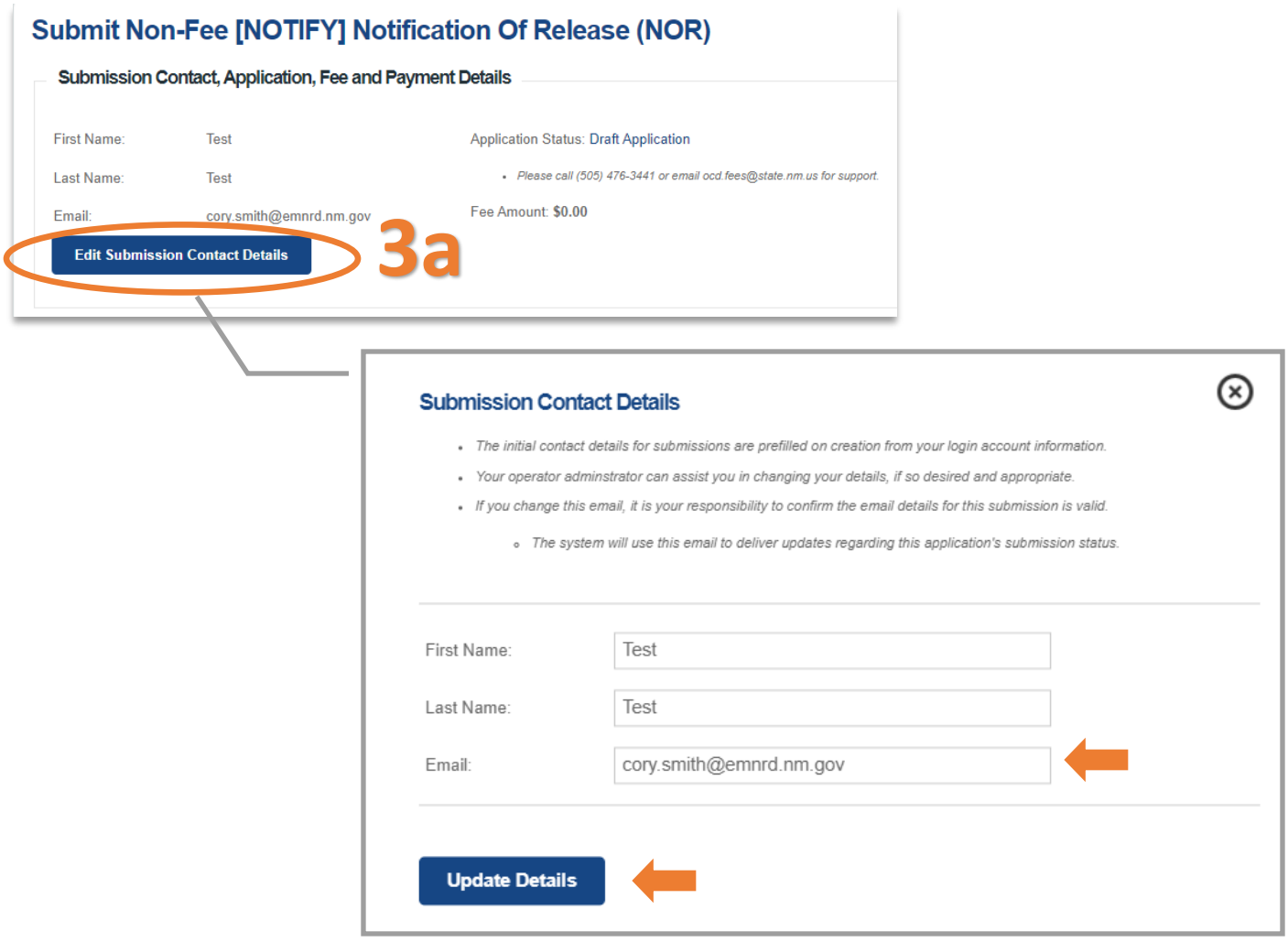


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name, you can also search by typing in the name into the box.

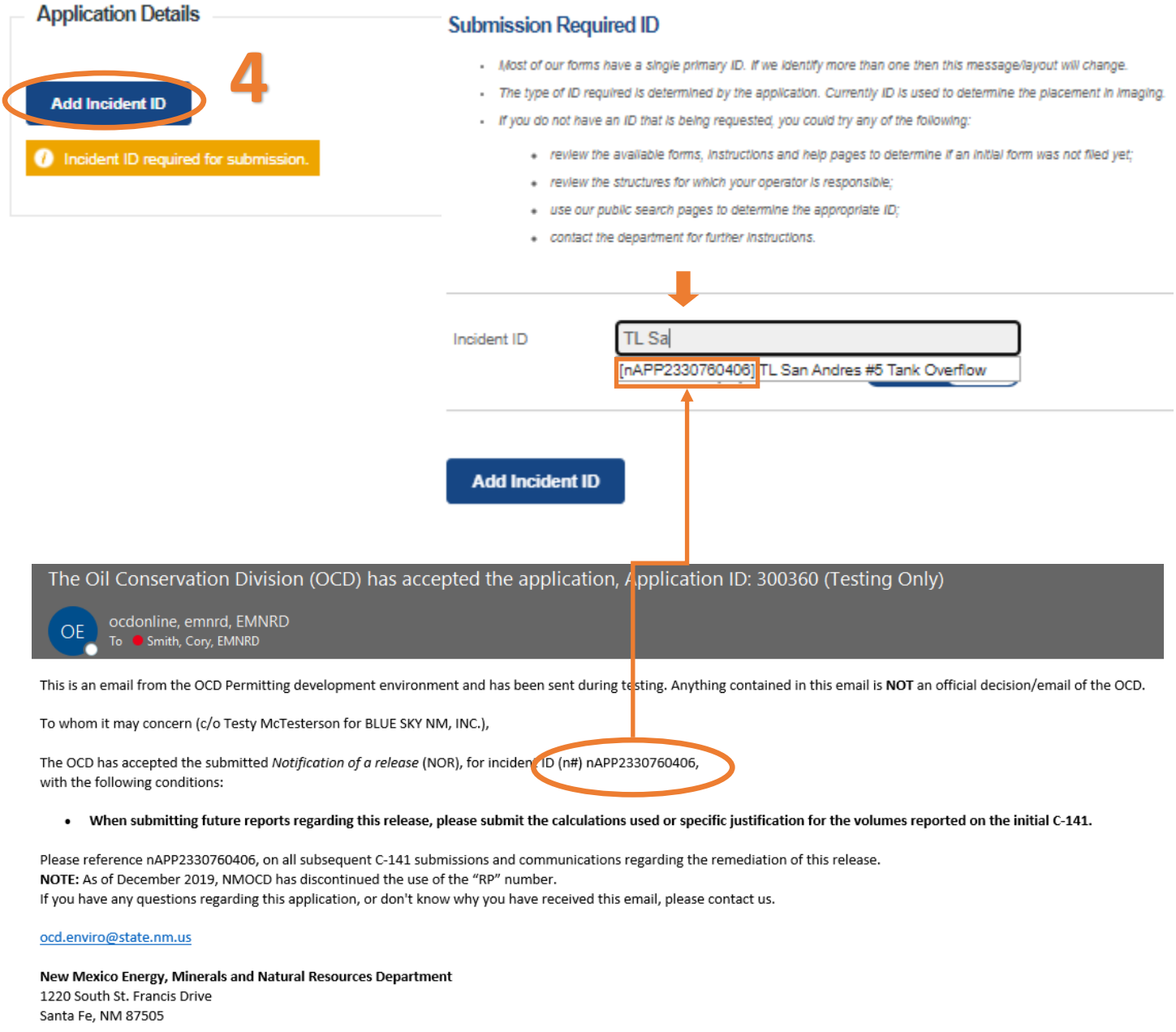
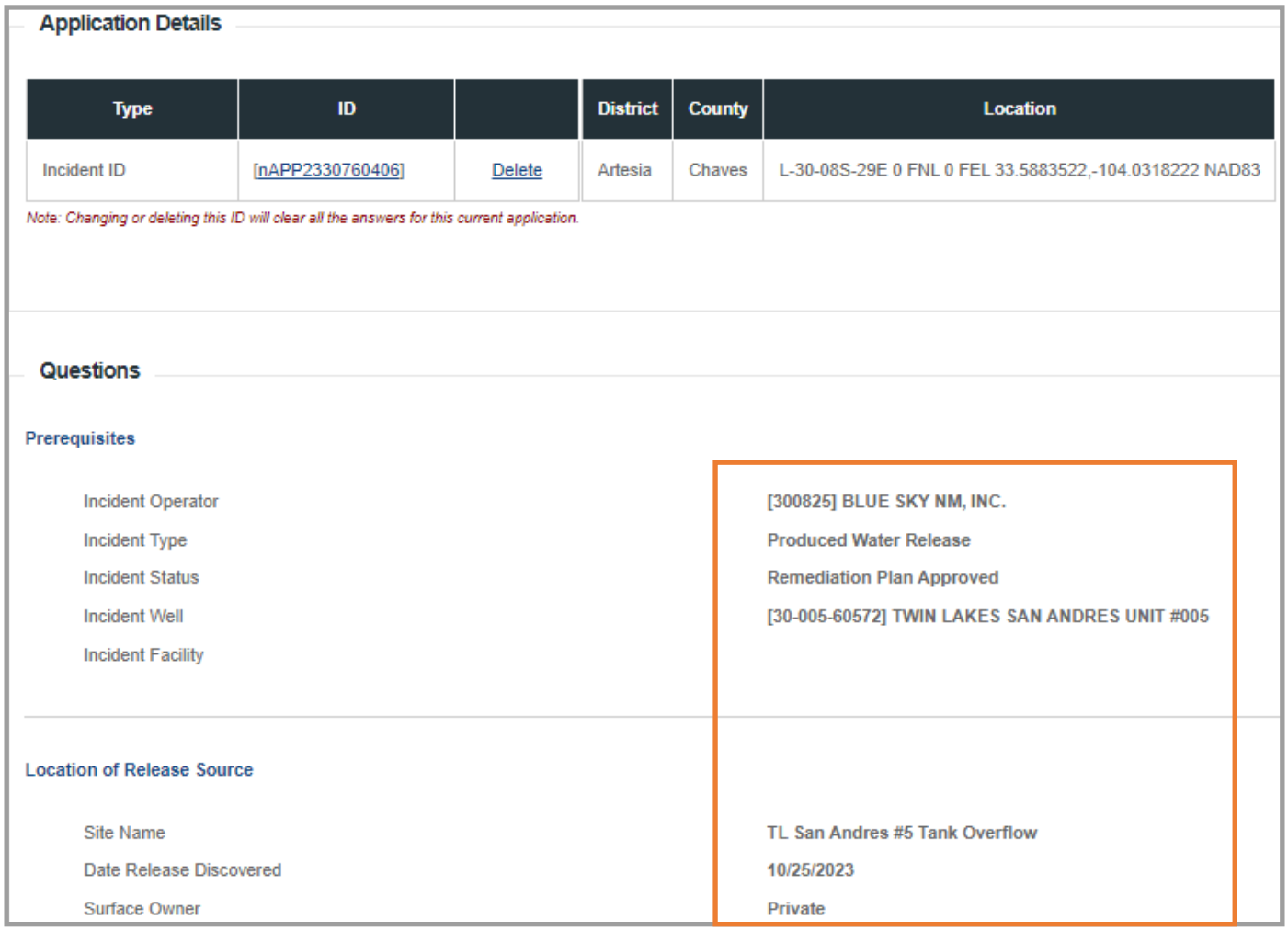


FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

Once you have entered a valid incident number the applications will populate data based upon answers that were submitted in the Notice Of Release application and the status of the incident based upon approvals of C-141 applications. Users should verify that the data is correct and that they are providing notice to the correct incident.



Application Details

Type	ID		District	County	Location
Incident ID	[nAPP2330760406]	Delete	Artesia	Chaves	L-30-08S-29E 0 FNL 0 FEL 33.5883522,-104.0318222 NAD83

Note: Changing or deleting this ID will clear all the answers for this current application.

Questions

Prerequisites

Incident Operator	[300825] BLUE SKY NM, INC.
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Incident Facility	

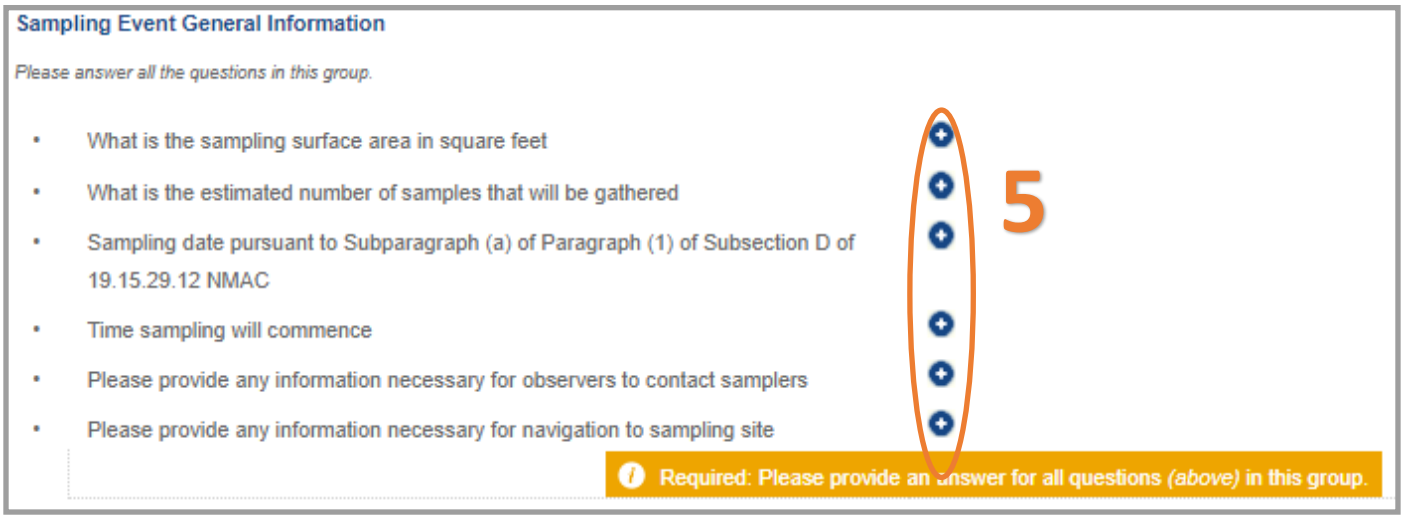
Location of Release Source

Site Name	TL San Andres #5 Tank Overflow
Date Release Discovered	10/25/2023
Surface Owner	Private

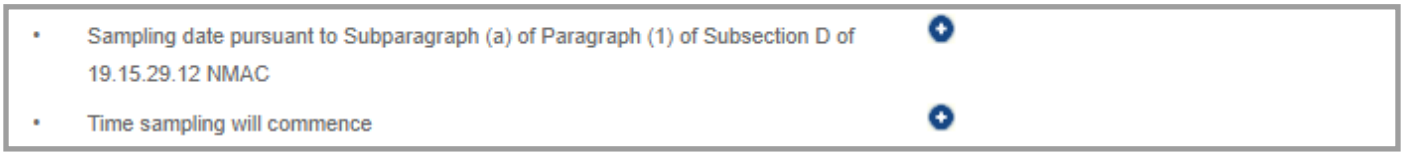
FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

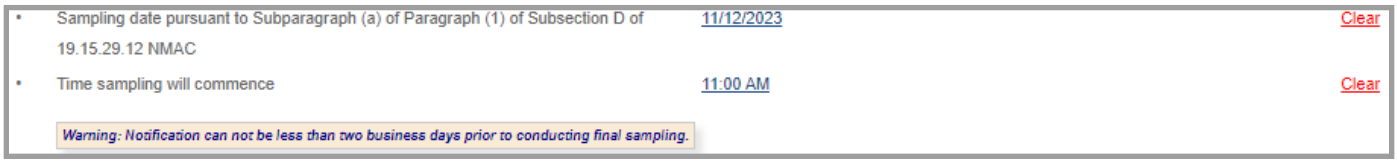
5. Sampling Notifications have 6 required questions that must be answered prior to submission.



Users will provide the surface area rounded to the nearest whole number of the area that is intended to be sampled for this notice. Additionally, the user will provide the estimated number of samples that will be collected during this sampling event. In general this number should be Surface Area / 200sqft. Alterative sampling plans may still be approved in remediation plans or via e-mail.



Users will provide the Date (MM/DD/YYYY) and Time (hh:mm: AM/PM Mountain Time) of the scheduled sampling notification. Samples that are collected outside of the notified time may be rejected by the OCD, and additional samples may be required. In the event that the date/time changes, submit an additional notice ASAP.

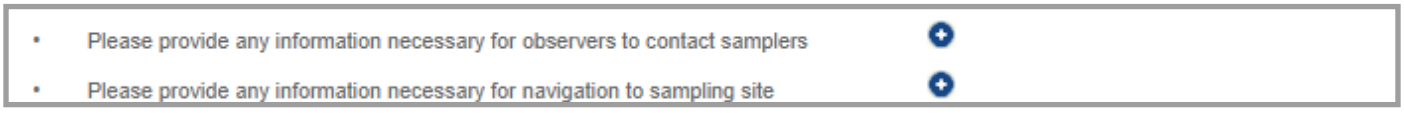


NOTE: At this current time due to this being a new process OCD Permitting will provide a warning that your notice does not meet the requirements of two business days. User may continue to submit applications with this error this will likely change in future development. This is a compliance issues pursuant to 19.15.29.12.D (1)(a) NMAC and can be subject to compliance actions pursuant to 19.15.5 NMAC.

FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES (C-141L & C-141N)

5. *Continued*



Users will provide any information necessary for the Observers of the Sampling Event. **This section is NOT to be used to request alternative sampling size or approvals of sampling plans.**
Examples: Business contact phone numbers. Details of the inspection.

Users will provide any info necessary for Navigation to the Sampling event Site.
Examples: 23 miles south of Artesia turn Left at Mile Post. Location has a locked gate etc.

Follow best practice for not including Personal Identifiable Information (PII). This data is public DO NOT include any gate combination codes, or Private Names/Addresses/Phone Numbers, only Business contacts. OCD anticipates that Notifications of Liner Inspections and Sampling will be further developed in later phases.

6. Review your Notification for accuracy and completeness. This is the last chance to make any corrections to this data before submitting the document to the OCD.

Clicking the Delete button will clear the entire application and remove it from your application queue.

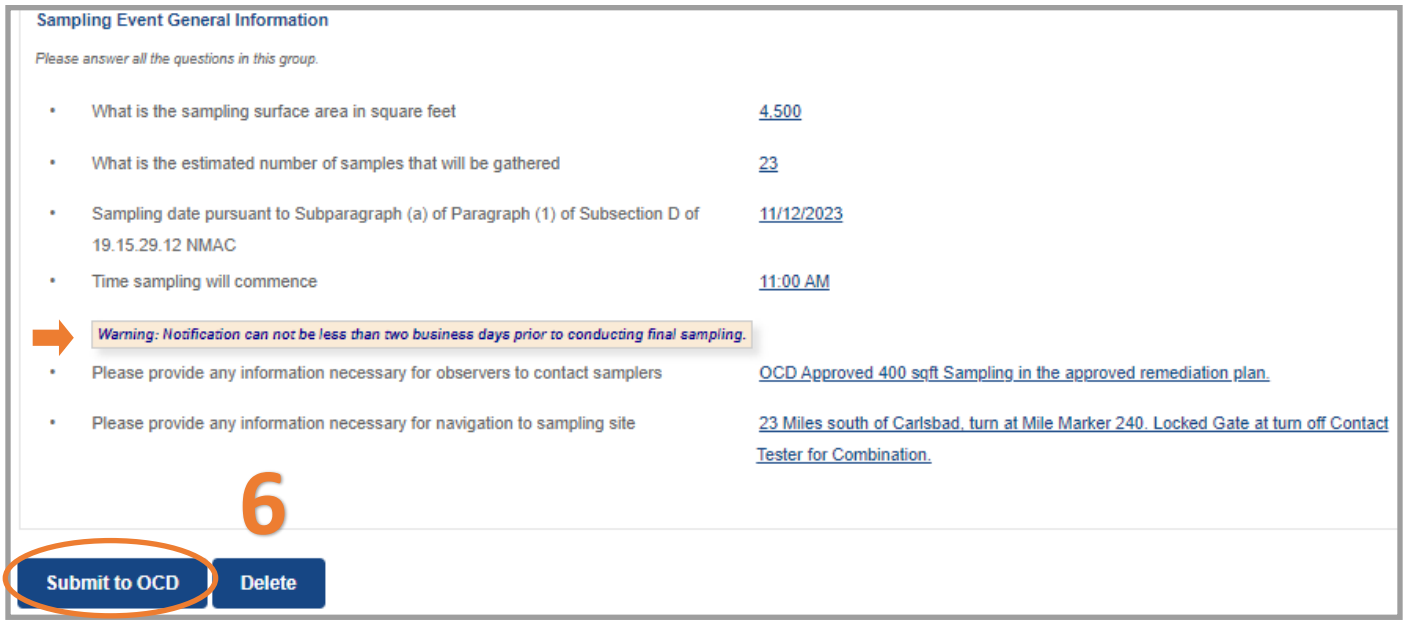


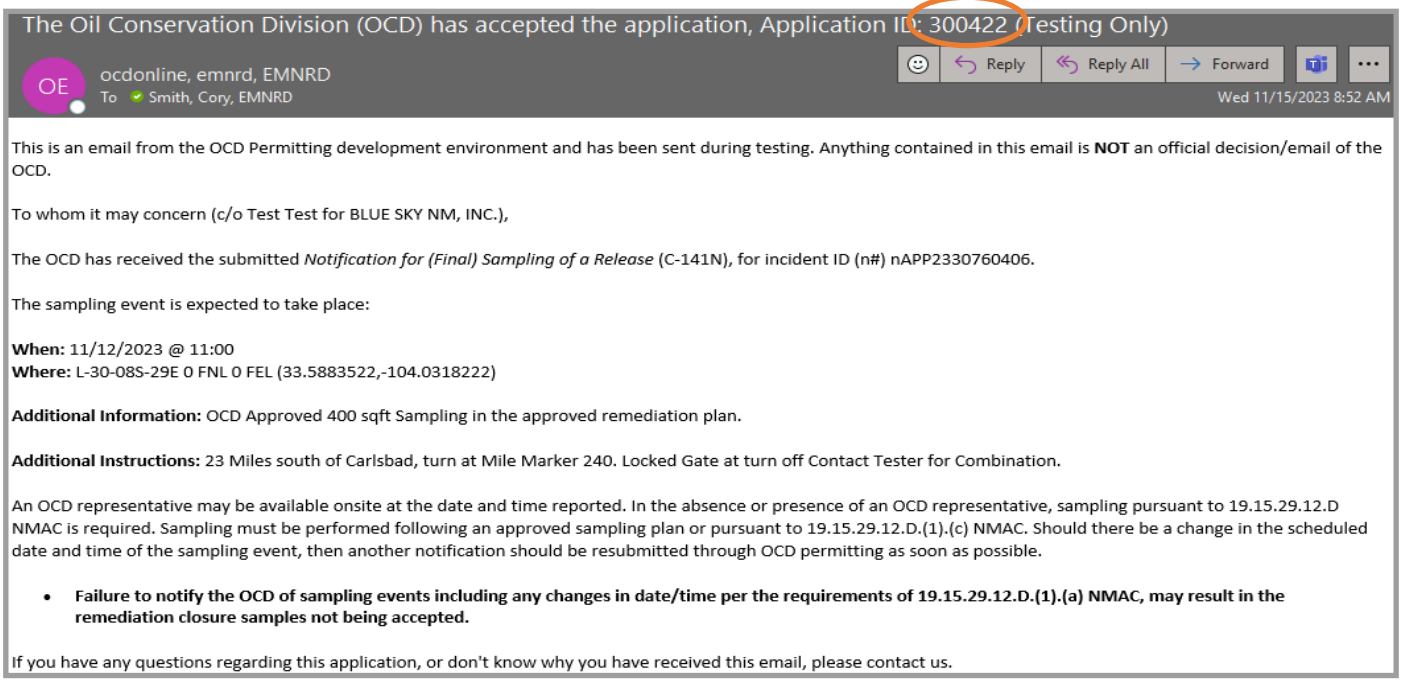
FIGURE 4

SUBMITTING LINER AND SAMPLING NOTICES(C-141L & C-141N)

Once the User has submitted the Notice of Sampling to the OCD. The User email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov indicated that the Notice was accepted. Additionally the email will provide the User with the incident # (napp2330760406) for verification.

OCD Permitting also automatically will notify the assigned incident review of the notice and adds a sampling Notice date to the incident Date Stack.

This complete submitting a Notification of Sampling.



The Oil Conservation Division (OCD) has accepted the application, Application ID: 300422 (Testing Only)

OE ocdonline, emnrd, EMNRD
To Smith, Cory, EMNRD

Reply | Reply All | Forward

Wed 11/15/2023 8:52 AM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2330760406.

The sampling event is expected to take place:

When: 11/12/2023 @ 11:00
Where: L-30-08S-29E 0 FNL 0 FEL (33.5883522,-104.0318222)

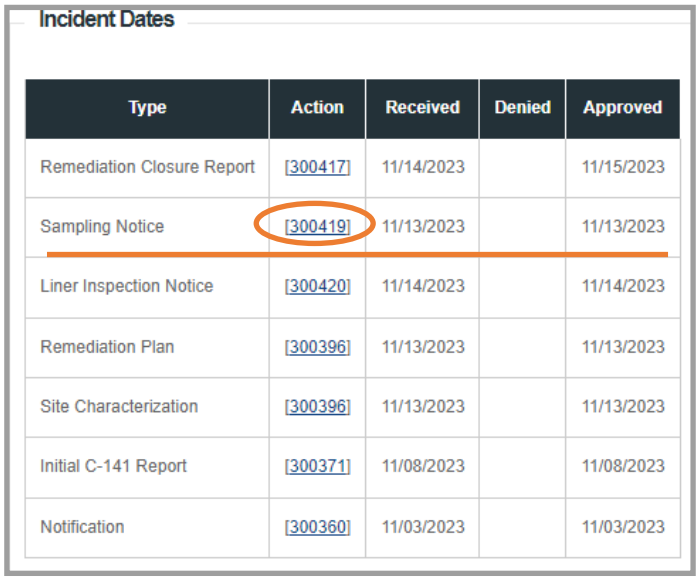
Additional Information: OCD Approved 400 sqft Sampling in the approved remediation plan.

Additional Instructions: 23 Miles south of Carlsbad, turn at Mile Marker 240. Locked Gate at turn off Contact Tester for Combination.

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

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

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



Incident Dates

Type	Action	Received	Denied	Approved
Remediation Closure Report	[300417]	11/14/2023		11/15/2023
Sampling Notice	[300419]	11/13/2023		11/13/2023
Liner Inspection Notice	[300420]	11/14/2023		11/14/2023
Remediation Plan	[300396]	11/13/2023		11/13/2023
Site Characterization	[300396]	11/13/2023		11/13/2023
Initial C-141 Report	[300371]	11/08/2023		11/08/2023
Notification	[300360]	11/03/2023		11/03/2023

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Remediation Closure Request can be submitted from the Initial C-141 Application within 15 days of discovery however, this is a very rare event. Most C-141 Closure Requests will be submitted with a Dig & Haul remediation plan that has been completed. Regardless of "When" the application is sent in, the remediation closure section of the C-141 is used to ensure the responsible party has met the closure conditions outlined in 19.15.29.12 NMAC. To submit a Remediation Closure Request follow the directions below.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action ($150 fee required)

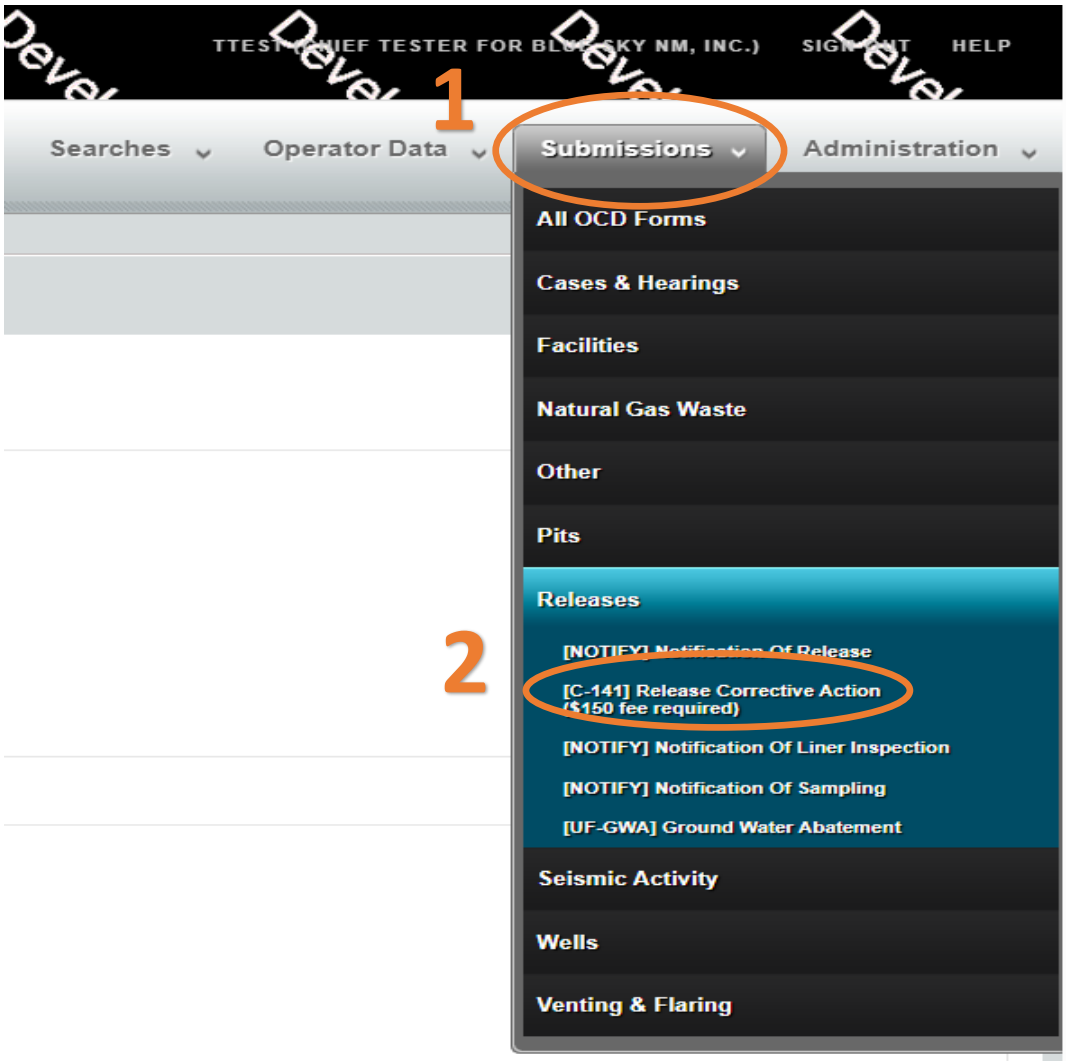


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

On this Permitting page, users can review the status of all previous submitted C-141 applications for their current OGRID . The User can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Application types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

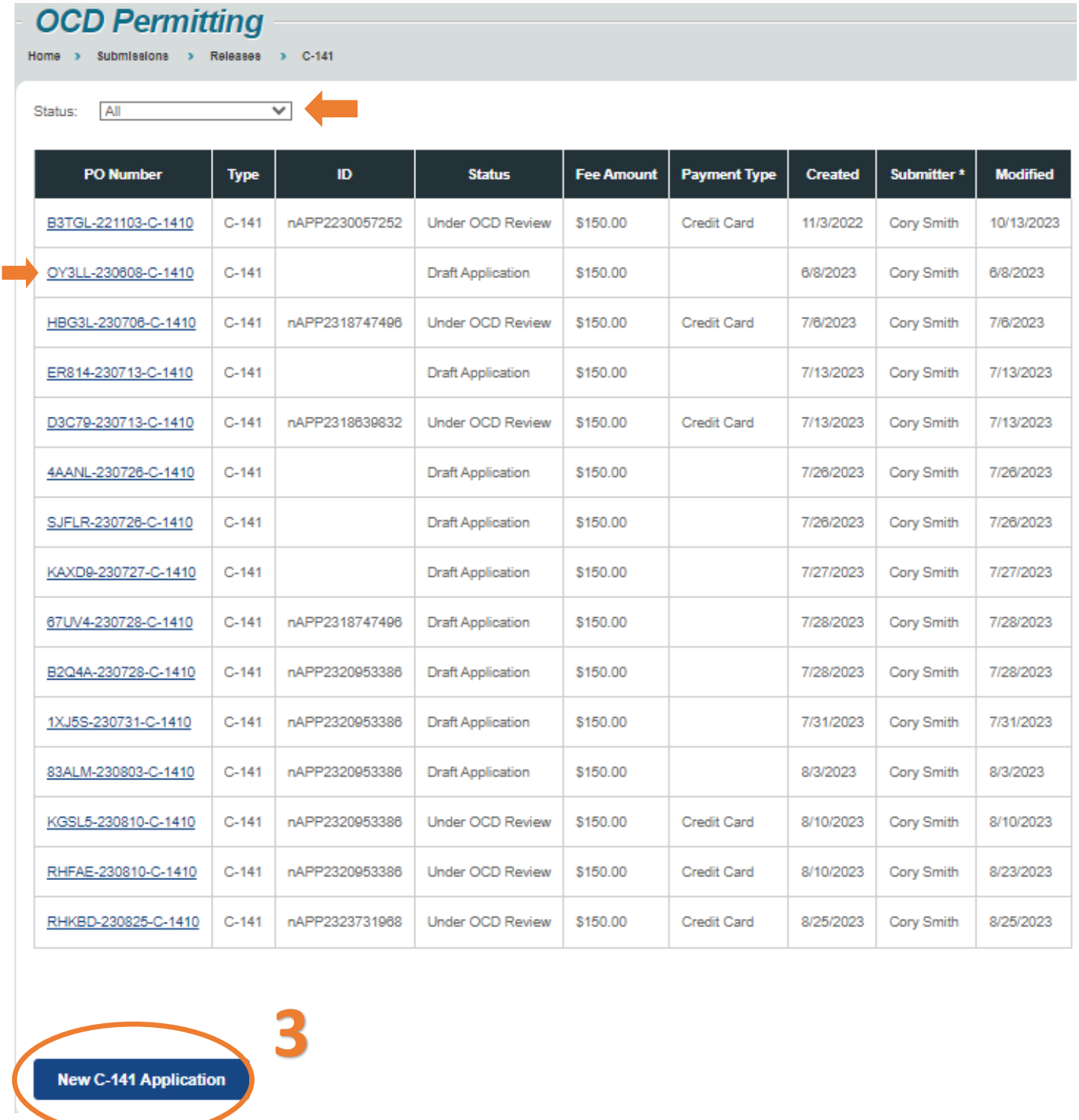


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based up-on the Users default contact information. The contact E-mail used in this section is where any approvals/ rejections will be sent too. In the even that you are submitting this on behalf of another member of your Organization you may edit the contact information by clicking on the edit submissions contact details button.

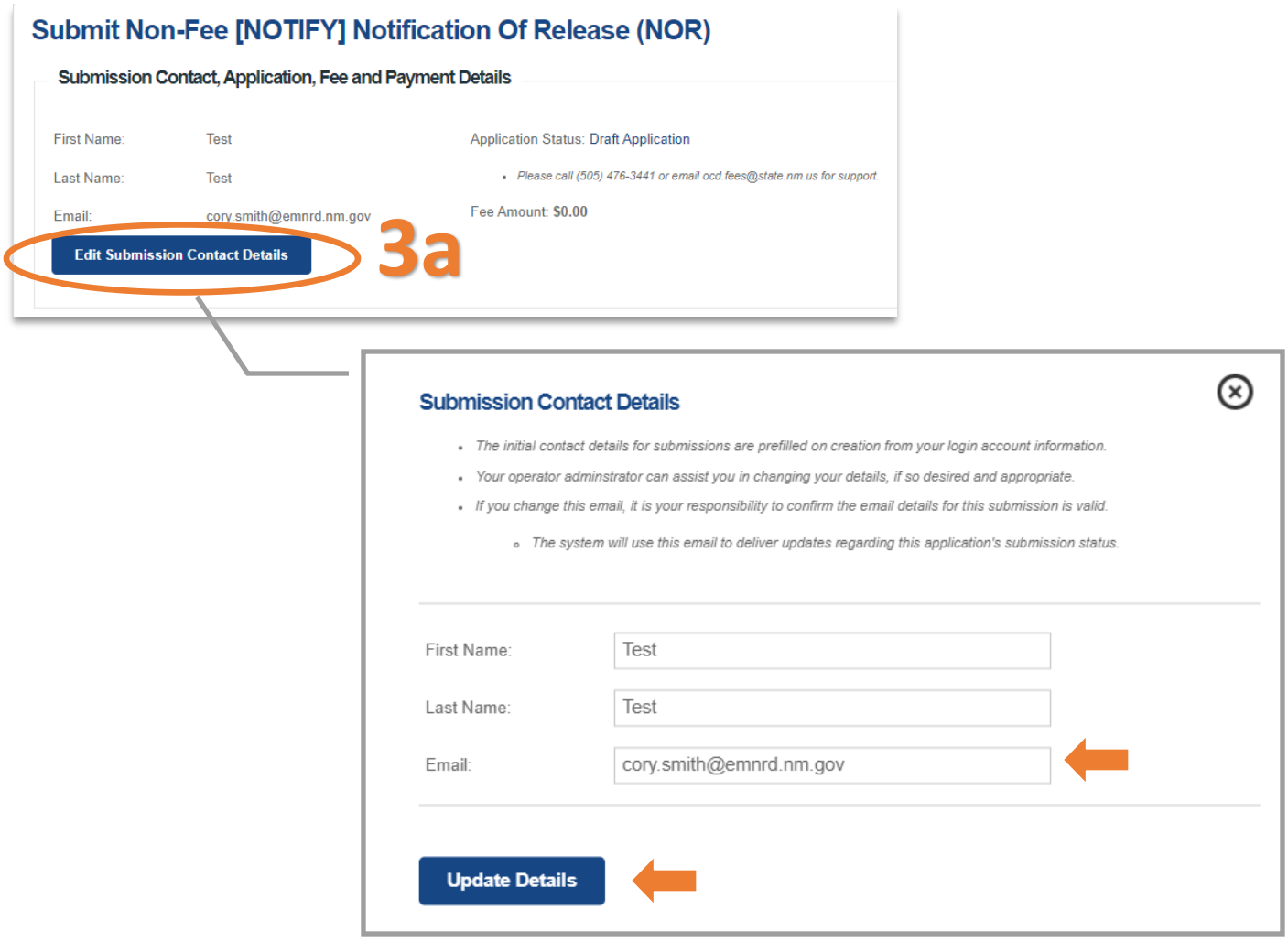


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

4. Add the incident ID # from your Notice of Release (NOR) e-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

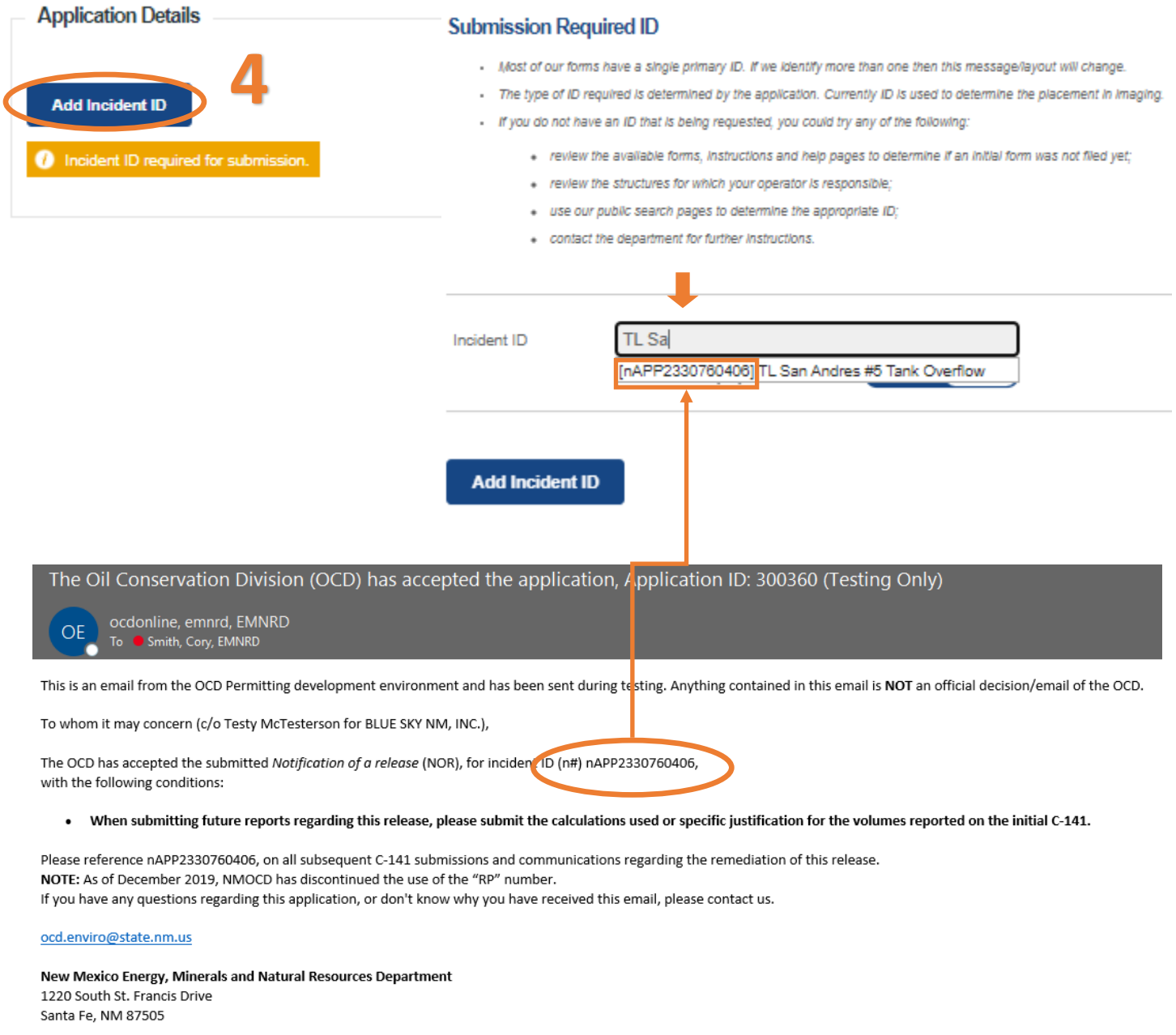


FIGURE 5

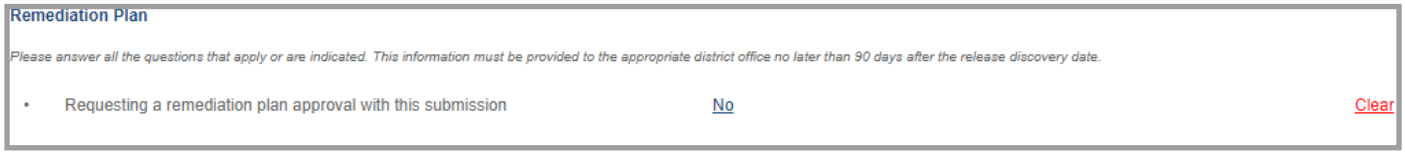
SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial/ Remediation Plan C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 applications that were submitted in Figure 1/2/3. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only appear with approved data therefore, any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application.

Please note, that if the user changes answers to previously approved questions they will also have to include updated attachments for that section.

Example: The user answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as "No". This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to "Yes" .

C-141 Initial Application



C-141 Remediation Plan Application: By Answer yes additional Remediation Plan questions pop up.

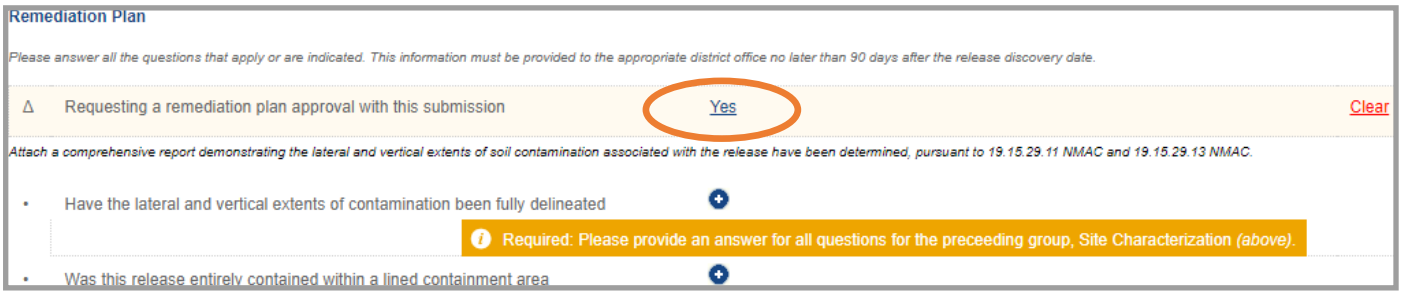


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

5. Using the Data from Figure 1/2/3 this submission will pick up where those ones left off. Please keep in mind that the User have the ability to submit ALL DATA from Figure 1/2/3 in ONE application if possible. In most cases the User will not have remediation closure request data within 15 days of discovery and will be submitted after a Initial C-141 application has been submitted.

To Start a Remediation Closure request , scroll all the way down to the bottom of the C-141 Application and Answer the Following question as “Yes”. This will flag OCD Permitting that the User is submitting a Closure Request and will reflect the appropriate Incident status upon submission.

Note: Incorrect submission types where the attachments don’t match up will be rejected. I.E Submitting a Remediation Closure Request under the Remediation Plan.

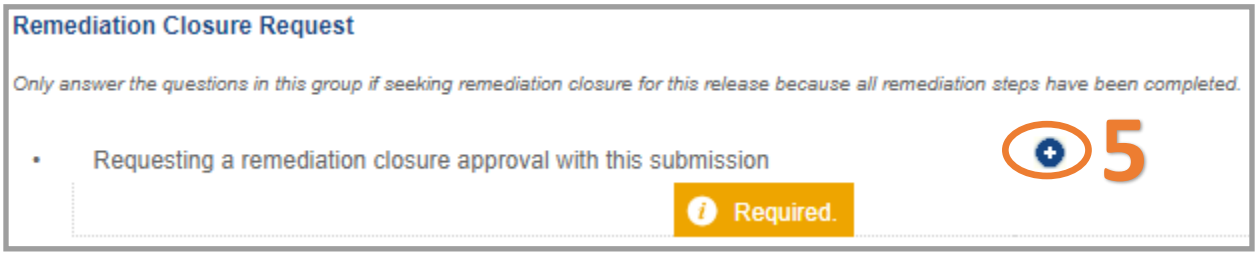


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

6. Additional Remediation Closure questions will become required upon answering “Yes”. The User must answer all required questions in this section to move forward.

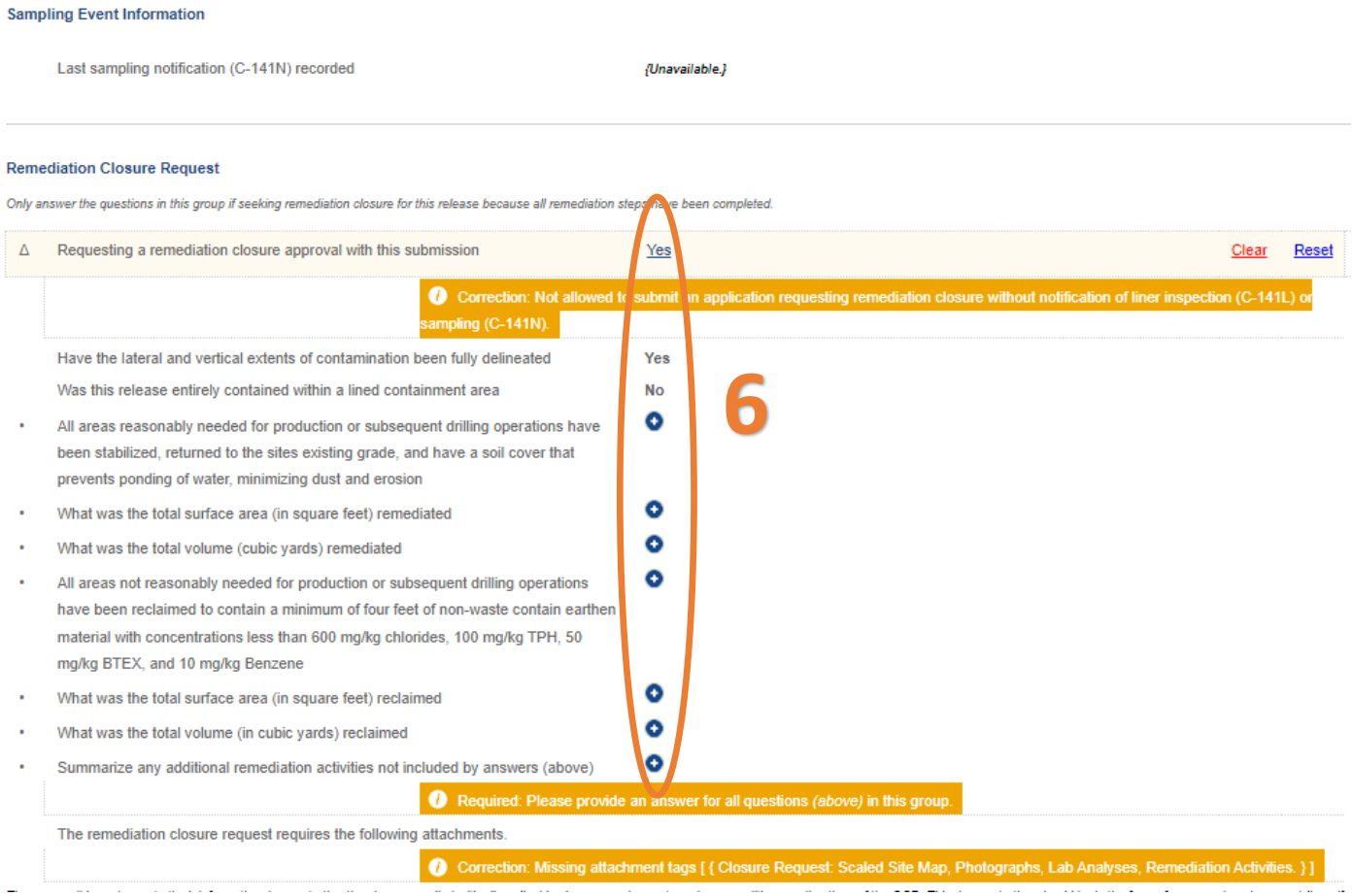


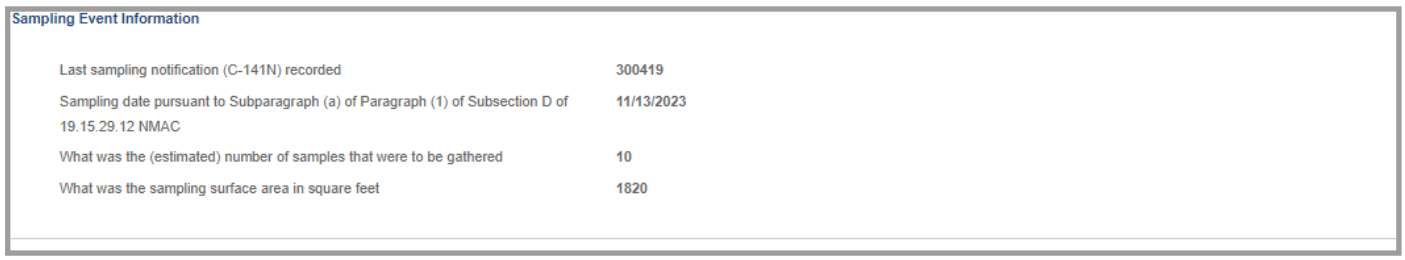
FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

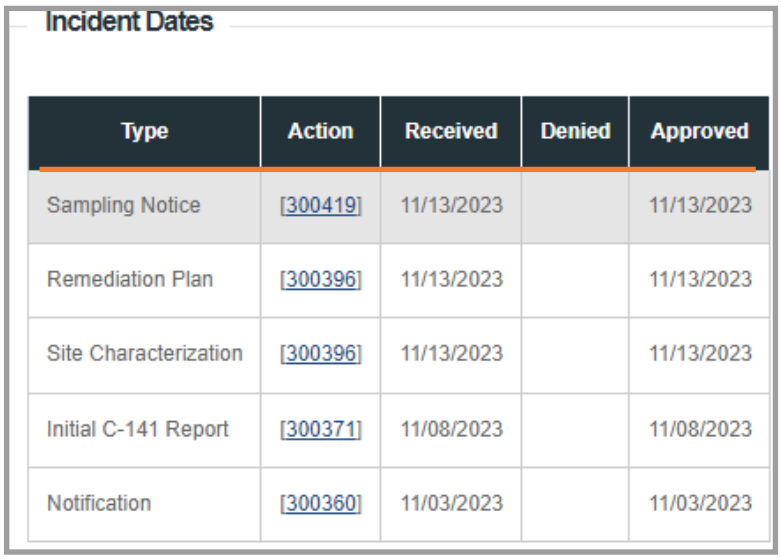
6. *Continued*

If the Sampling Event Information is showing {Unavailable.] that means the User has not submitted a sampling notice to the OCD. Pursuant to 19.15.29.12.D(1)(a), Operators are required to provide the OCD two business days notification prior to the collection of final sampling. Figure 4 will detail this process in detail. However, for the Remediation Closure Report the user needs to know that they may not request remediation closure without a confirmation sampling notice on file. OCD will use the provide information from sampling notices to schedule onsite inspections and to reference Laboratory Chain of Custody and the number of samples collected.

Samples that are collected without proper notification may not be accepted for Remediation closure and the responsible party may be required to collect additional confirmation samples.



Above is an example of a completed Sampling Event Information. This section will display the last submitted notification. However, for multiple sampling notices, sample dates are also recorded in the incident details.



Incident Dates

Type	Action	Received	Denied	Approved
Sampling Notice	[300419]	11/13/2023		11/13/2023
Remediation Plan	[300396]	11/13/2023		11/13/2023
Site Characterization	[300396]	11/13/2023		11/13/2023
Initial C-141 Report	[300371]	11/08/2023		11/08/2023
Notification	[300360]	11/03/2023		11/03/2023

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

6. *Continued*

All areas reasonable needed for production Operations or subsequent drilling operations **do not have to be reclaimed** immediately but those areas must be backfilled and stabilized. These areas will be required to be reclaimed at a later date and will be reported in the Reclamation Report request (Figure 6)

Now that remediation has been completed, total surface area and total volume of remediated impacts are known to the Operator. **<u>These should not be estimates</u>.**

All areas **NOT** reasonable needed for production Operations or subsequent drilling **operations have to be reclaimed** immediately. This means that those areas must be non waste containing and meet the reclamations standards of 600 mg/kg Chlorides (or background) 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg Benzene. They must also be stabilized, returned to existing grade and have a soil cover that prevents ponding and erosion.

User must provide the total area and volume of areas not reasonable needed for production or subsequent drilling operations that were reclaimed at the time of Remediation Closure Request. If all impacted areas are reasonable needed then the User will answer “Yes” and report “0” area and volume reclaimed.

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

7. When requestion Remediation Closure Approval the User must submit 1 or more attachments that include the below attachment tags. Users must review their attached document to ensure that all of the items being requested are in the attached file(s). Attachments/Tags will likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.

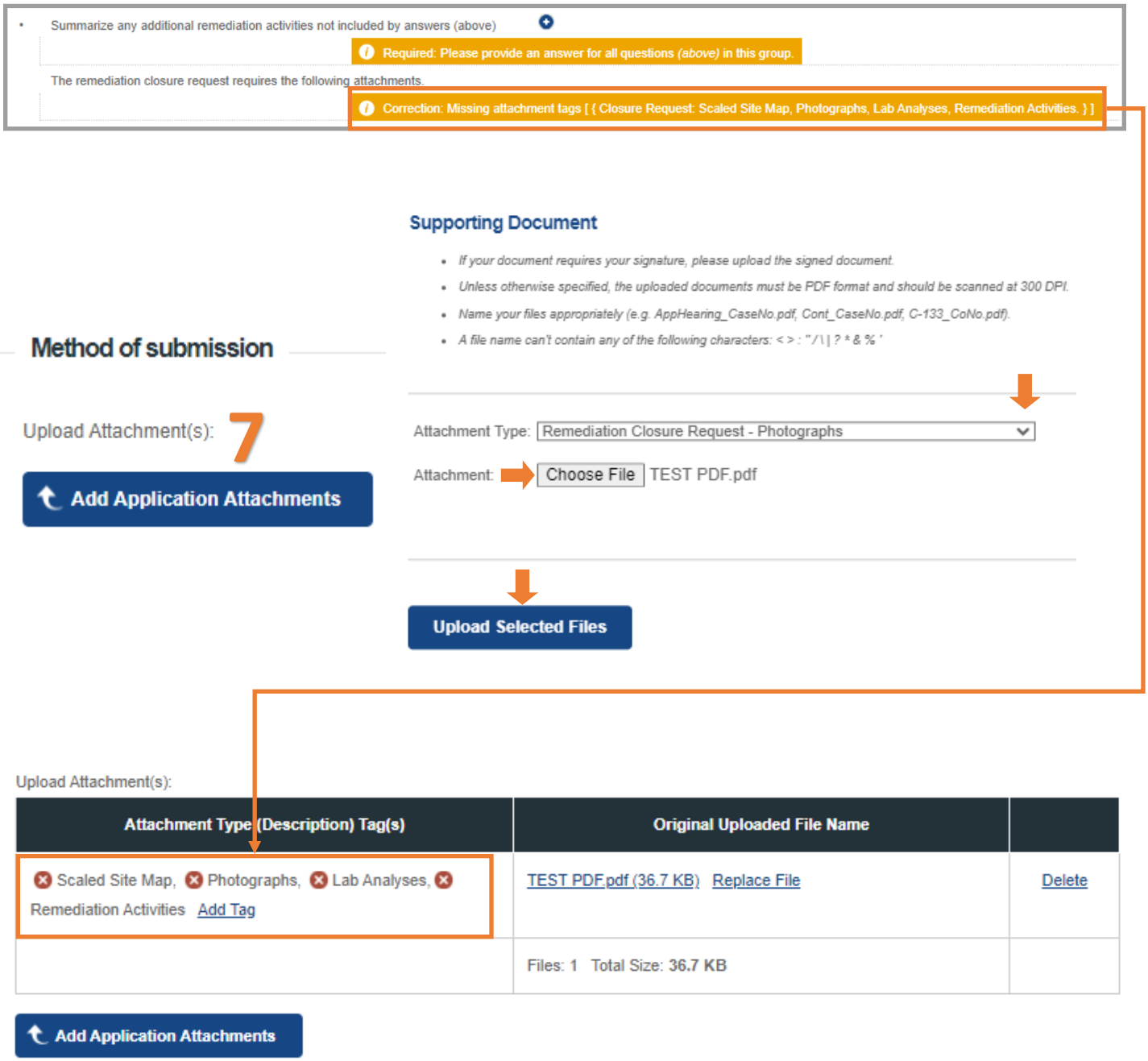


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Example of a Completed Remediation Closure Request.

Sampling Event Information

Last sampling notification (C-141N) recorded	300419
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/13/2023
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	1820

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

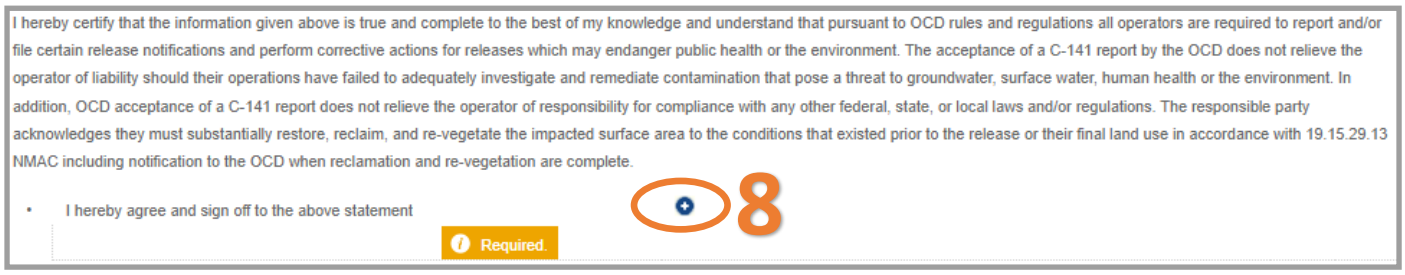
Δ	Requesting a remediation closure approval with this submission	Yes	Clear	Reset
	Have the lateral and vertical extents of contamination been fully delineated	Yes		
	Was this release entirely contained within a lined containment area	No		
Δ	All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes	Clear	Reset
Δ	What was the total surface area (in square feet) remediated	1820	Clear	Reset
Δ	What was the total volume (cubic yards) remediated	410	Clear	Reset
Δ	All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes	Clear	Reset
Δ	What was the total surface area (in square feet) reclaimed	0	Clear	Reset
Δ	What was the total volume (in cubic yards) reclaimed	0	Clear	Reset
Δ	Summarize any additional remediation activities not included by answers (above)	Release was contained to Areas reasonable needed for Production.	Clear	Reset

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

FIGURE 5

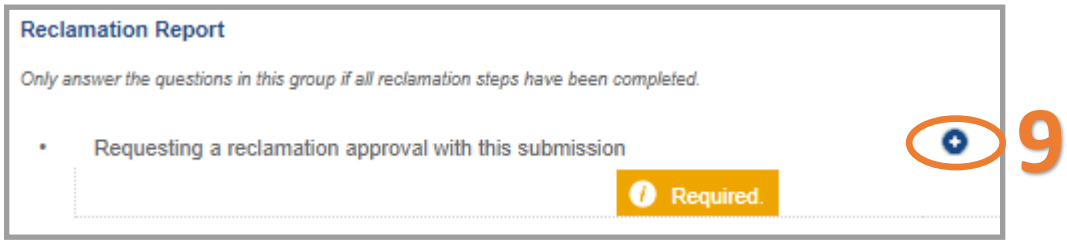
SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

8. Once all of the questions have been answered. The user should review the answers and then Sign/Certify the data for submission.



9. The User now must answer if they are requesting a Reclamation Report approval with this submission. If the user answers "no", this submission will be classified as a Remediation Closure Report. If the User selects yes and there is not an approved Initial C-141/Remediation Plan on file this submission will ALSO count as a Initial C-141 + Remediation plan + Remediation Closure Request + Reclamation Report (Figure 6).

Please note that OCD does not approve partial applications in the event that the User submits an Initial C-141 + Remediation Plan + Remediation Closure and the application is rejected, all C-141 types will be rejected.



10. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

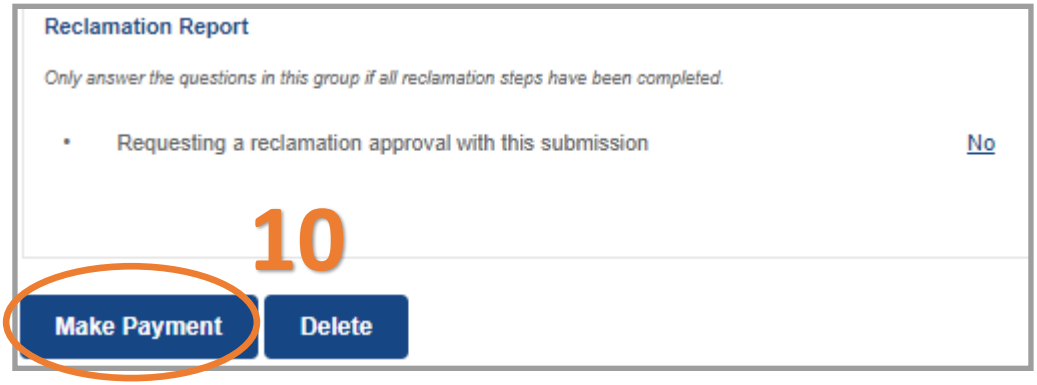


FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Once the user has submitted the C-141 Remediation Closure Report to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides an PO Number that can be searched on the OCD Action Status Page.

PO Number: Y25FS-231113-C-1410
Payment Date: 11/14/2023
Payment Amount: $150.00
Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action
Fee Amount: $150.00
Application Status: Under OCD Review

OGRID: 300825
First Name: Test
Last Name: Test
Email: cory.smith@emnrd.nm.gov

At this state the Remediation Closure Report C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status: Under OCD Review

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
Y25FS-231113-C-1410	C-141	nAPP2330760406	Under OCD Review	$150.00	Credit Card	11/13/2023	Test Test	11/14/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

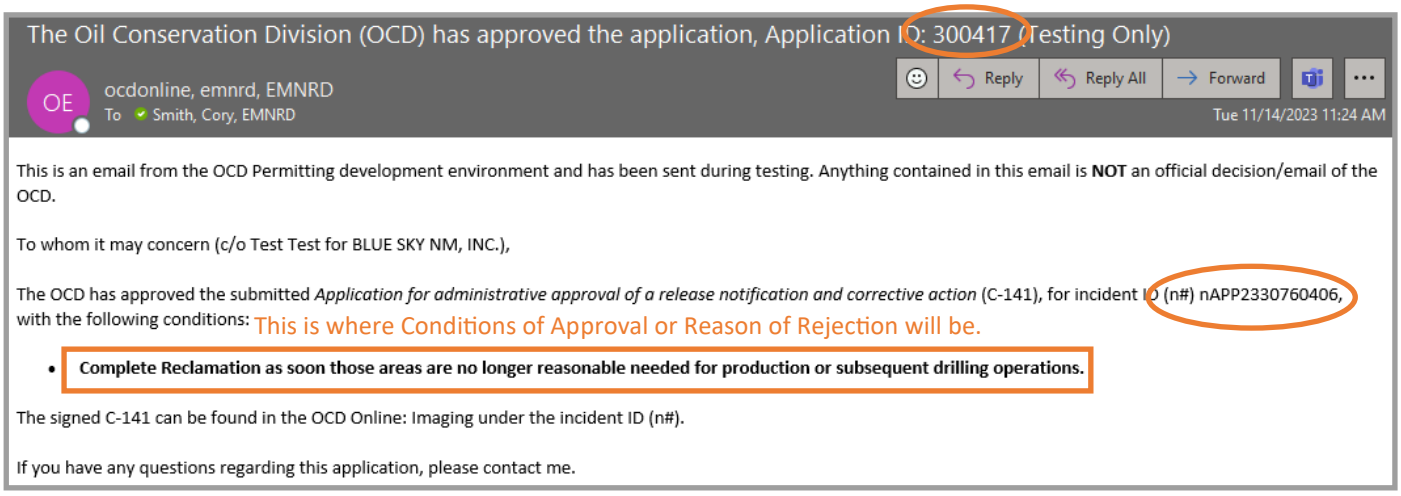
General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [300825] BLUE SKY NM, INC.
Status: Remediation Closure Report Received, Pending OCD Review
Type: Produced Water Release
District: Artesia
Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Example of Accepted Application.



The Oil Conservation Division (OCD) has approved the application, Application ID: 300417 (Testing Only)

OE ocdonline, emnrd, EMNRD
To Smith, Cory, EMNRD

Reply | Reply All | Forward

Tue 11/14/2023 11:24 AM

This is an email from the OCD Permitting development environment and has been sent during testing. Anything contained in this email is **NOT** an official decision/email of the OCD.

To whom it may concern (c/o Test Test for BLUE SKY NM, INC.),

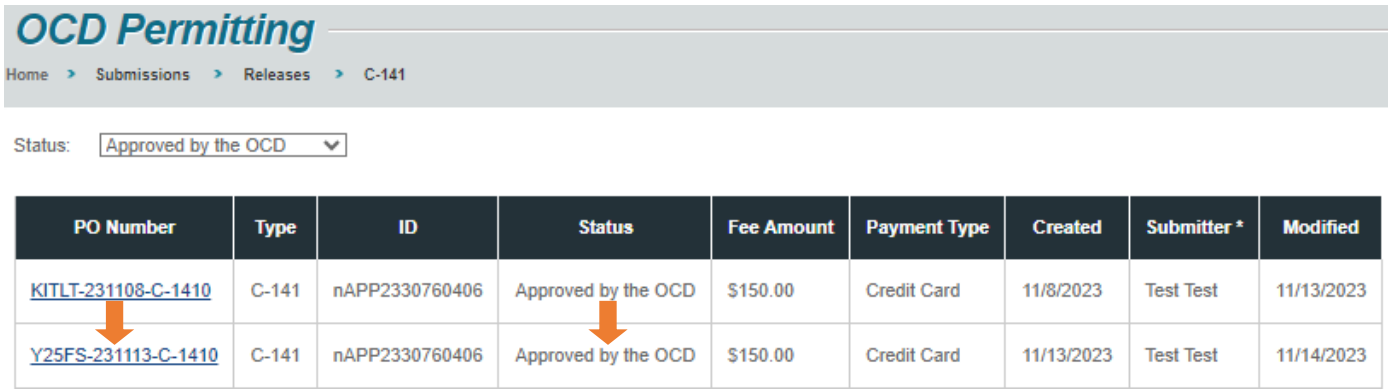
The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2330760406, with the following conditions: This is where Conditions of Approval or Reason of Rejection will be.

- **Complete Reclamation as soon those areas are no longer reasonable needed for production or subsequent drilling operations.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

At this state the Remediation Plan C-141 Application is has been Processed (Approved or Rejected) and the incident status will change to reflect the current status of the incident.



OCD Permitting

Home > Submissions > Releases > C-141

Status: Approved by the OCD

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
KITLT-231108-C-1410	C-141	nAPP2330760406	Approved by the OCD	$150.00	Credit Card	11/8/2023	Test Test	11/13/2023
Y25FS-231113-C-1410	C-141	nAPP2330760406	Approved by the OCD	$150.00	Credit Card	11/13/2023	Test Test	11/14/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

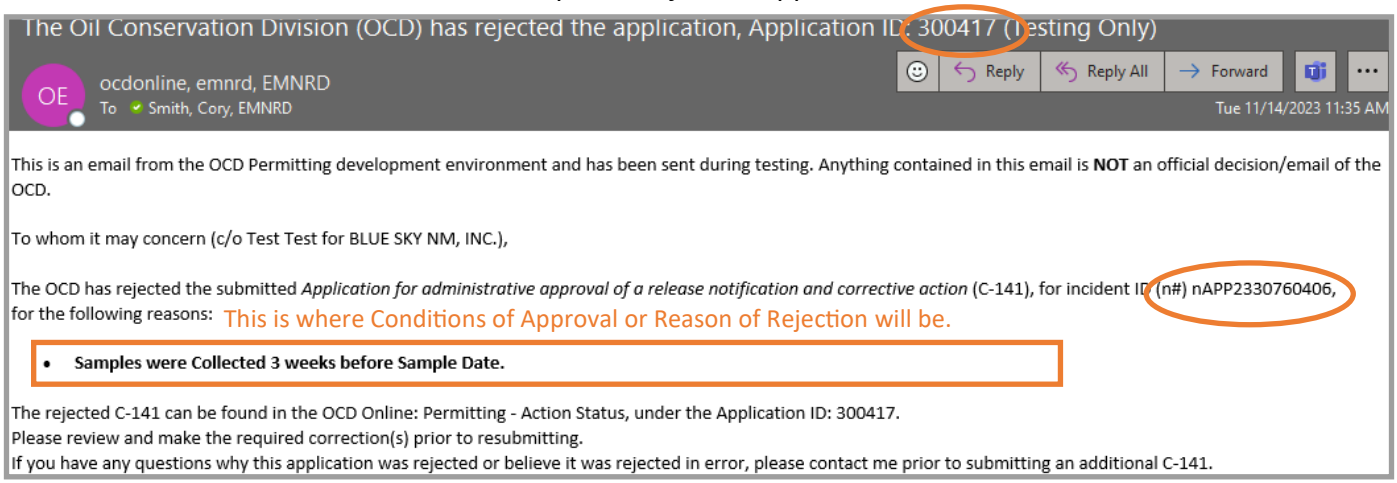
General Incident Information

Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator		
Type:	Produced Water Release	Severity:	Major
		Surface Owner:	Private
District:	Artesia	County:	Chaves (05)

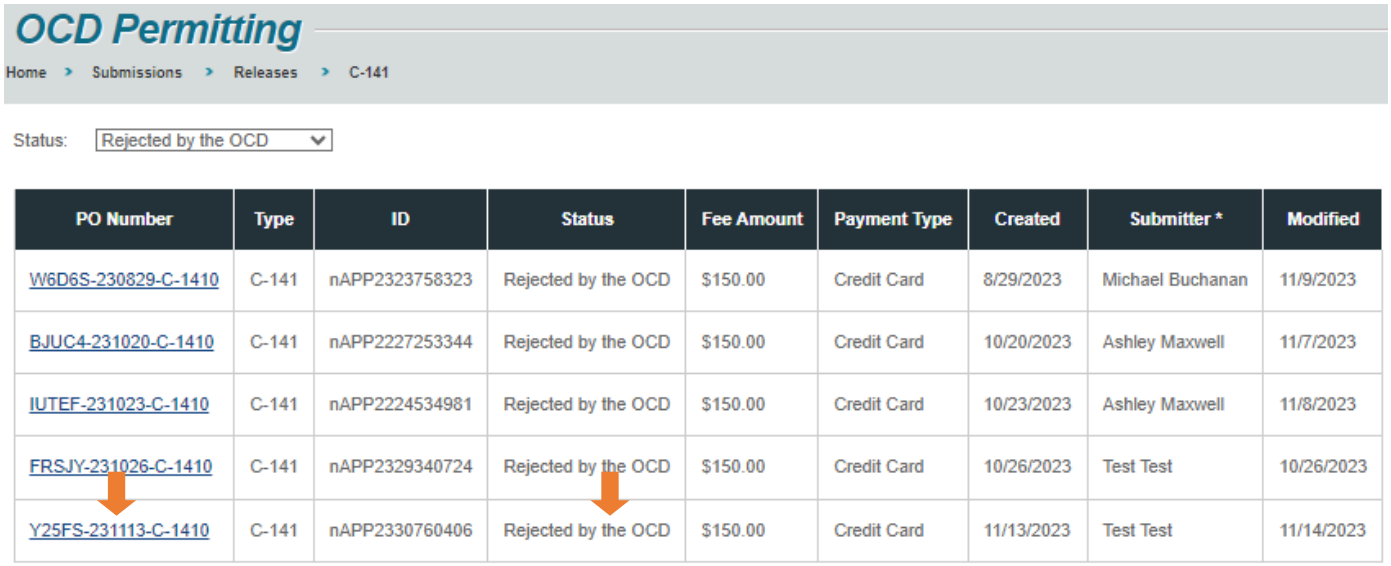
FIGURE 5

SUBMITTING A REMEDIATION CLOSURE REQUEST(C-141-V-Closure)

Example of Rejected Application.



At this state the Remediation Plan C-141 Application is has been Processed (Approved or Rejected) and the incident status will change to reflect the current status of the incident.



PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
W6D6S-230829-C-1410	C-141	nAPP2323758323	Rejected by the OCD	$150.00	Credit Card	8/29/2023	Michael Buchanan	11/9/2023
BJUC4-231020-C-1410	C-141	nAPP2227253344	Rejected by the OCD	$150.00	Credit Card	10/20/2023	Ashley Maxwell	11/7/2023
IUTEF-231023-C-1410	C-141	nAPP2224534981	Rejected by the OCD	$150.00	Credit Card	10/23/2023	Ashley Maxwell	11/8/2023
FRSJY-231026-C-1410	C-141	nAPP2329340724	Rejected by the OCD	$150.00	Credit Card	10/26/2023	Test Test	10/26/2023
Y25FS-231113-C-1410	C-141	nAPP2330760406	Rejected by the OCD	$150.00	Credit Card	11/13/2023	Test Test	11/14/2023

Remember rejected Applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Remediation Plan which was approved.

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

Reclamation Reports can be submitted from the Initial C-141 Application within 15 days of Discovery however, this is a very rare event. Most C-141 Reclamation reports will be submitted with a Dig & Haul remediation closure request when the release is not in an area reasonable needed for production or subsequent drilling operations. For areas that are reasonable needed for production or subsequent drilling operations Reclamation reports will be sent in when those areas no longer reasonable needed and Reclamation has been completed. Regardless of "When" the application is sent in the reclamation report section of the C-141 is used to ensure the responsible party has met the Reclamation conditions outlined in 19.15.29.13 NMAC. To submit a Reclamation Report follow the directions below.

1. Left Click on the Submissions tab in the top right of the website.

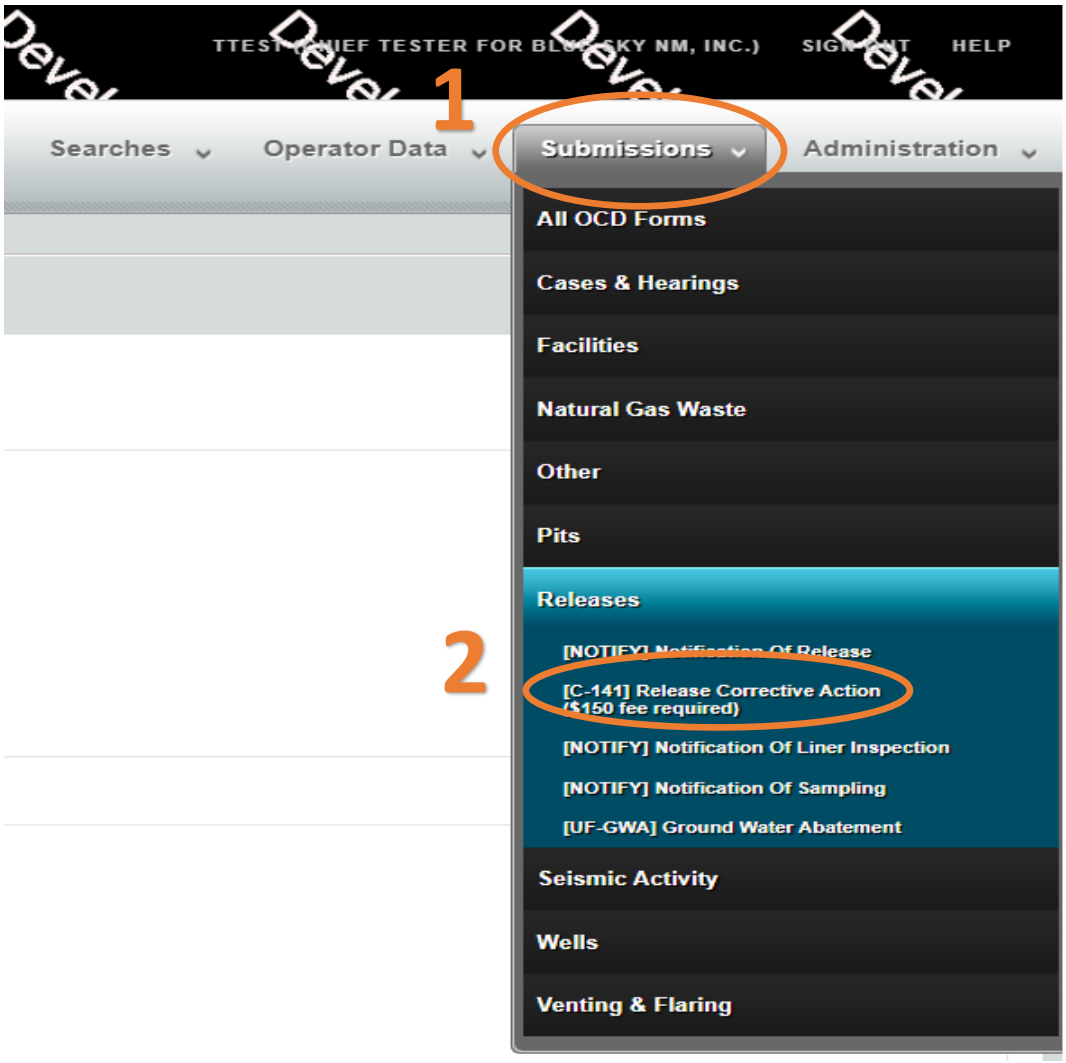


FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.

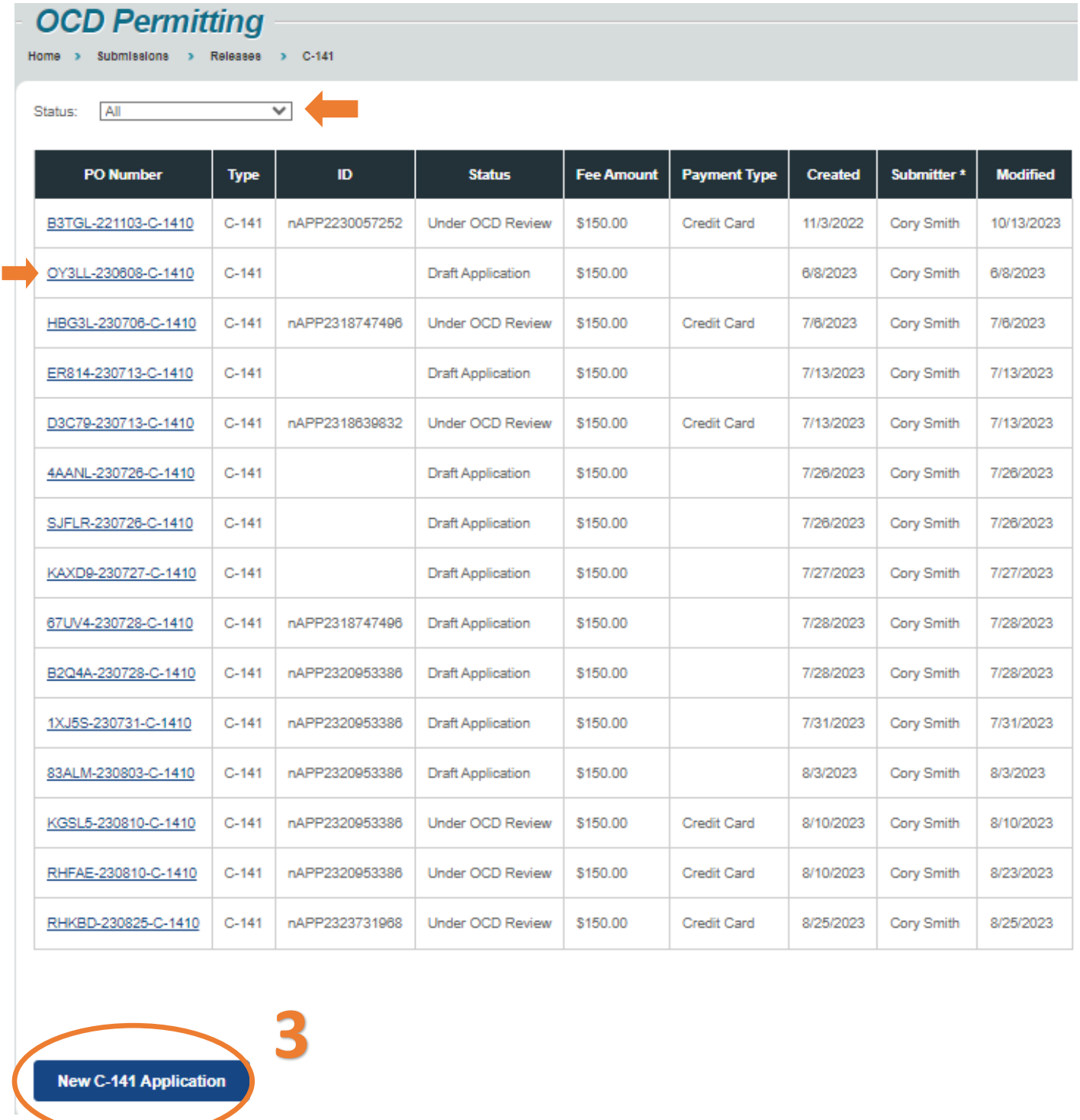


FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based upon the Users default contact information. The contact E-mail used in this section is where any approvals/ rejections will be sent too. In the even that you are submitting this on behalf of another member of your Organization you may edit the contact information by clicking on the edit submissions contact details button

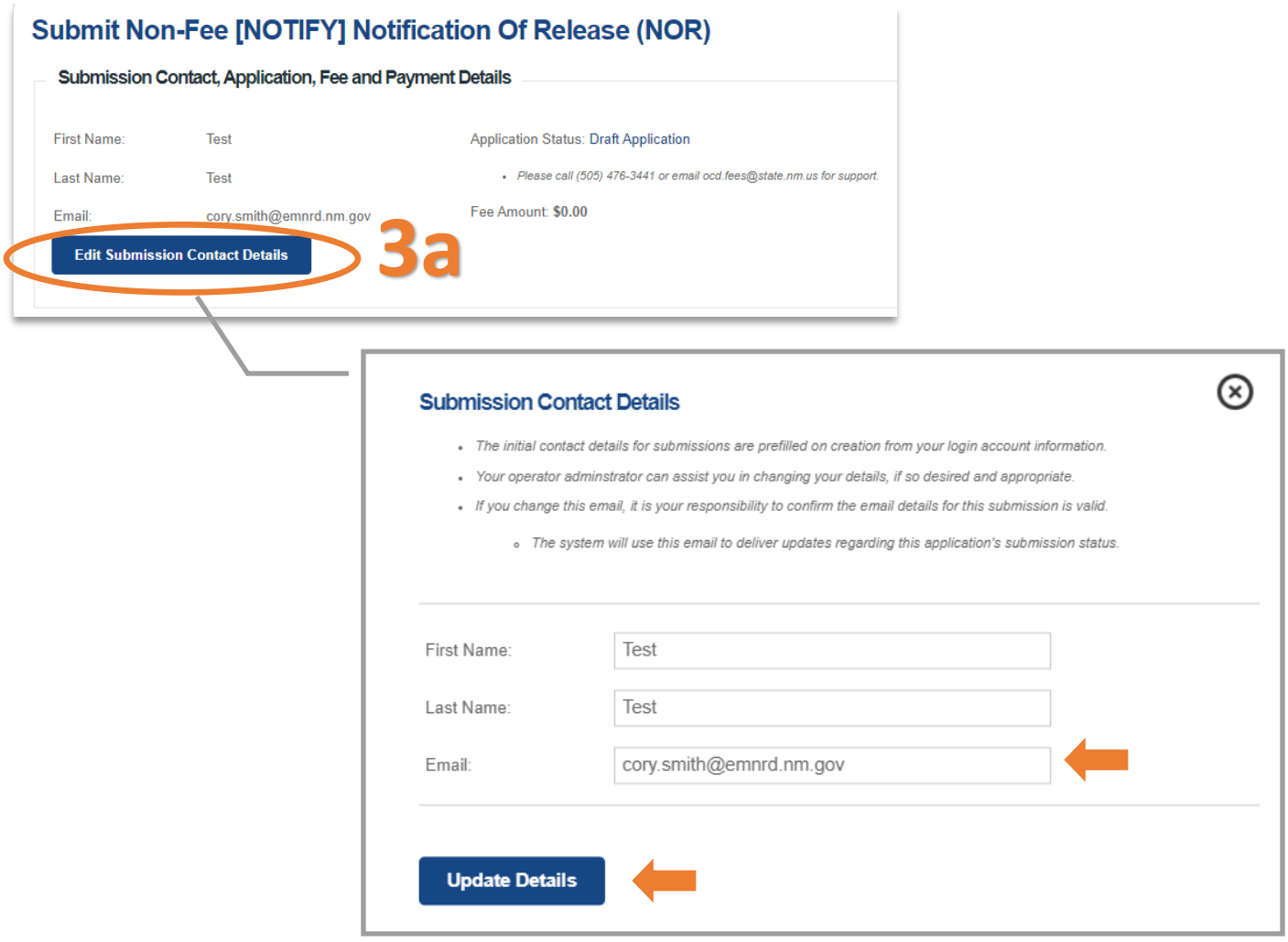


FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

4. Add the incident ID # from your Notice of Release (NOR) E-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

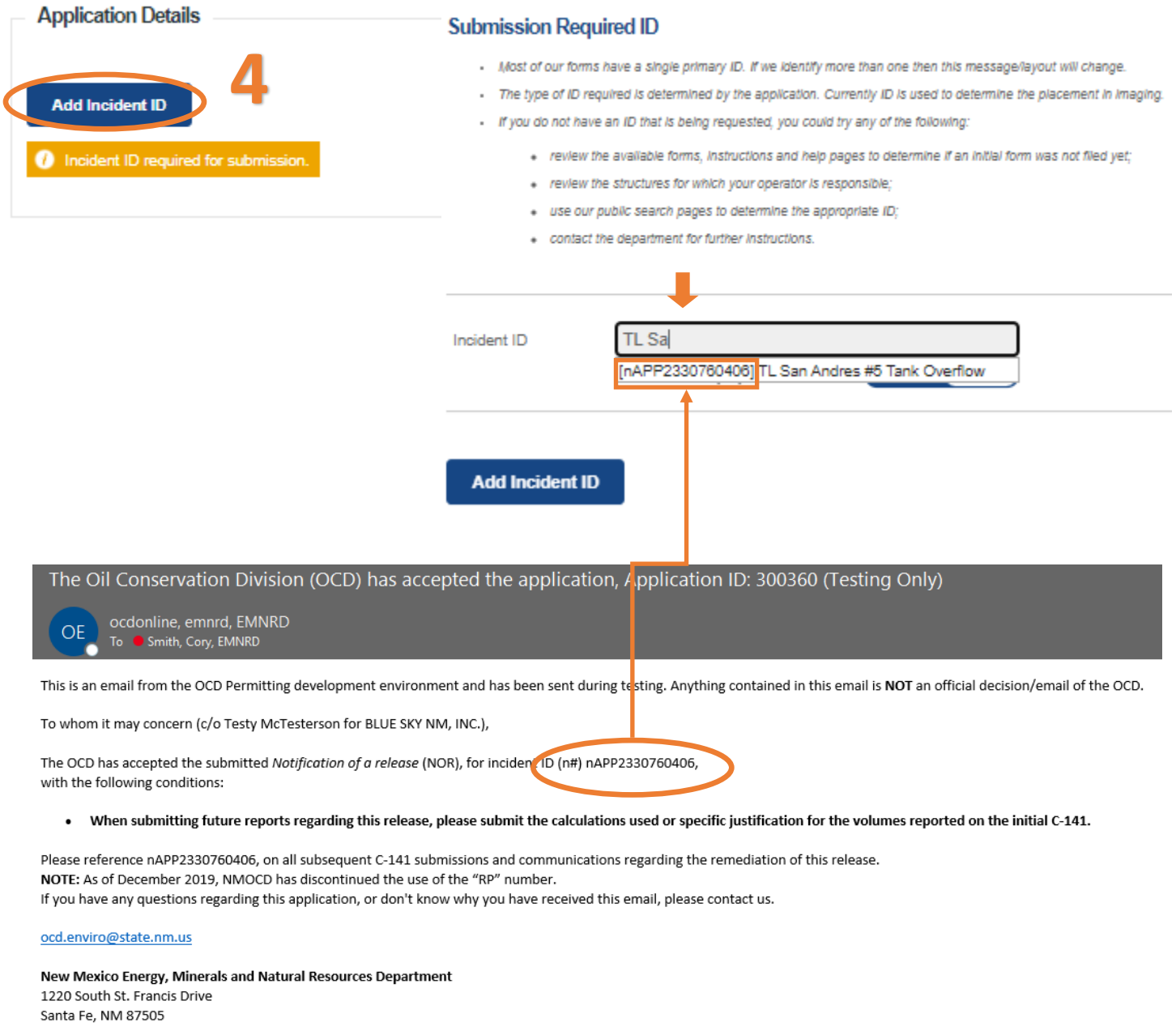


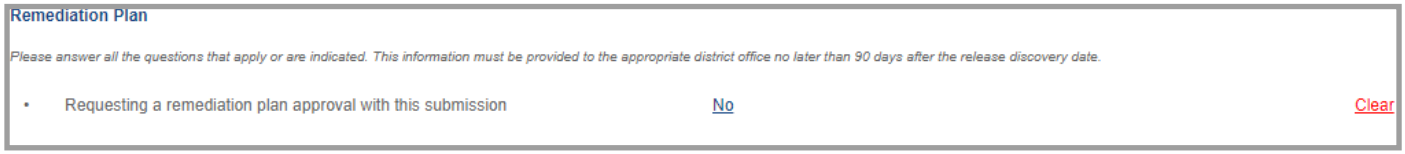
FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial/Remediation Plans and Remediation Closure C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 applications that were submitted in Figure 1/2/3/5. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application. Please Note that if the User changes answers to previously approved questions they will also have to include updated attachments for that section.

Example: The User answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as "No". This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to "Yes"

C-141 Initial Application



C-141 Remediation Plan Application: By Answer yes additional Remediation Plan questions pop up.

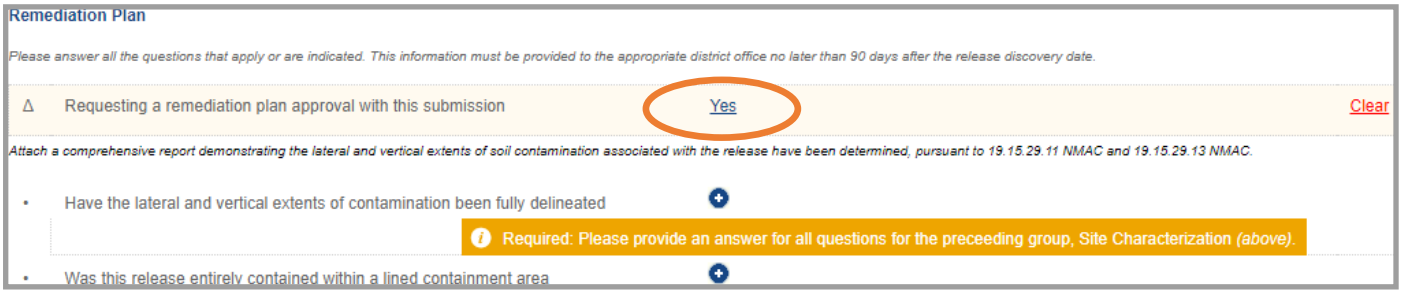
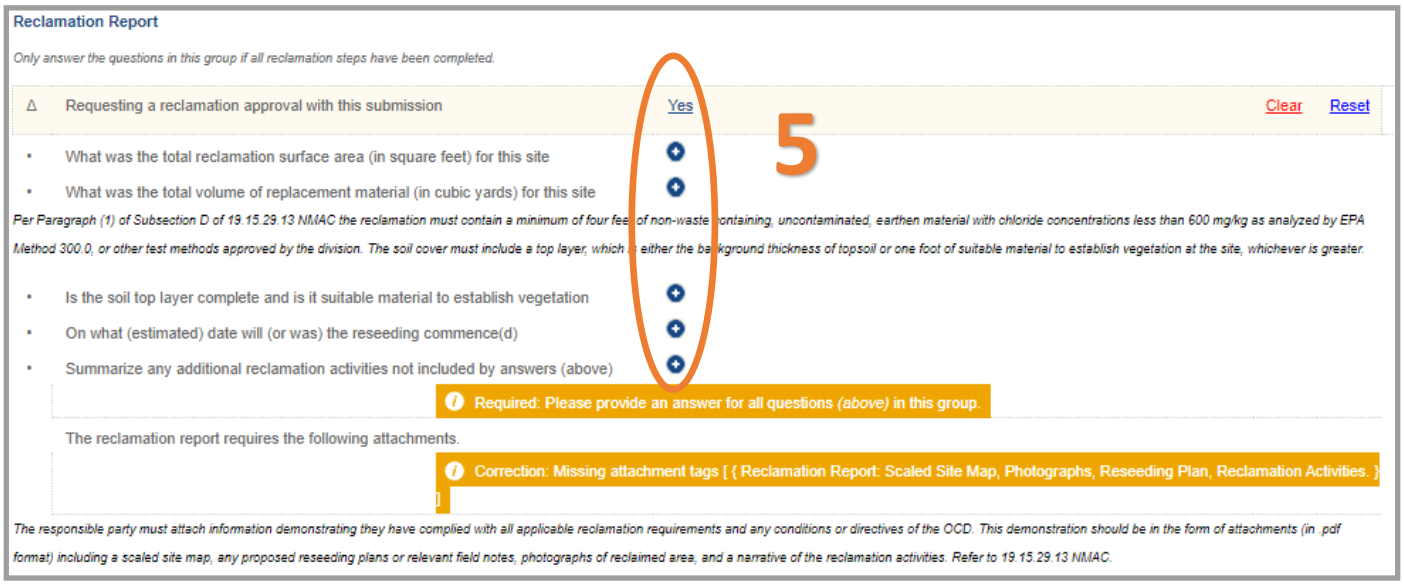


FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

5. Once the User selects Yes to Requesting a Reclamation Report approval the Reclamation Report questions will appear and are required to be answered.



This is a “New” Process to the OCD as historically this information was typically provided in a “Closure report” now identified as a Remediation Closure Report. Due to the Incident status changes OCD is now divesting this section to be a standalone report. Users who have releases in areas not reasonably needed for production or subsequent drilling operations will likely complete this section at the same time as requesting Remediation Closure. This is ideal as the Remediation Closure Request will have scaled site maps, sample locations, pictures and other attachments that are needed to verify that remediation/reclamation has been completed.

Responsible Parties must reclaim all releases once those areas are no longer reasonably needed for production or subsequent drilling operations. This condition is typically achieved when the well/facility is Plugged and Abandoned which could be a significant time from the Date of Discovery. Responsible Parties should review their approved Site Characterization and Remediation Plan for areas that were characterized and identified to be reclaimed.

A Reclamation Report as mentioned above is very similar to a Remediation Closure report and will need to include essentially the same information as required in 19.15.29.12 NMAC.

Please include the following information in your Reclamation report.

1. Executive Summary of the Reclamation Activities
2. Scaled Site Map
3. Sampling Locations & Laboratory Data
4. Photographs
5. Reseeding Plan to Include Seed Mix and Estimated Reseeding Dates.

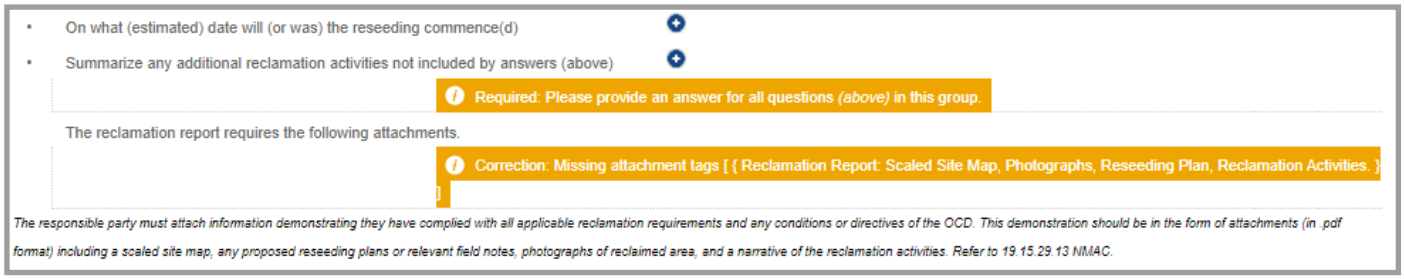
FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

5. *Continued*

Users will provide the total area and volume of material that was reclaimed. Users should consult the estimated area/volume from their Site Characterization and Remediation Plan.

Pursuant to 19.15.29.13.D(1) the Reclamation soil cover must include a top layer, which is either the back-ground thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.



Users will need to provide the best estimated date when Reseeding will commence. Users also have the opportunity to provide any additional information for the reclamation report.

Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed.

Δ	Requesting a reclamation approval with this submission	Yes
Δ	What was the total reclamation surface area (in square feet) for this site	10650
Δ	What was the total volume of replacement material (in cubic yards) for this site	1600

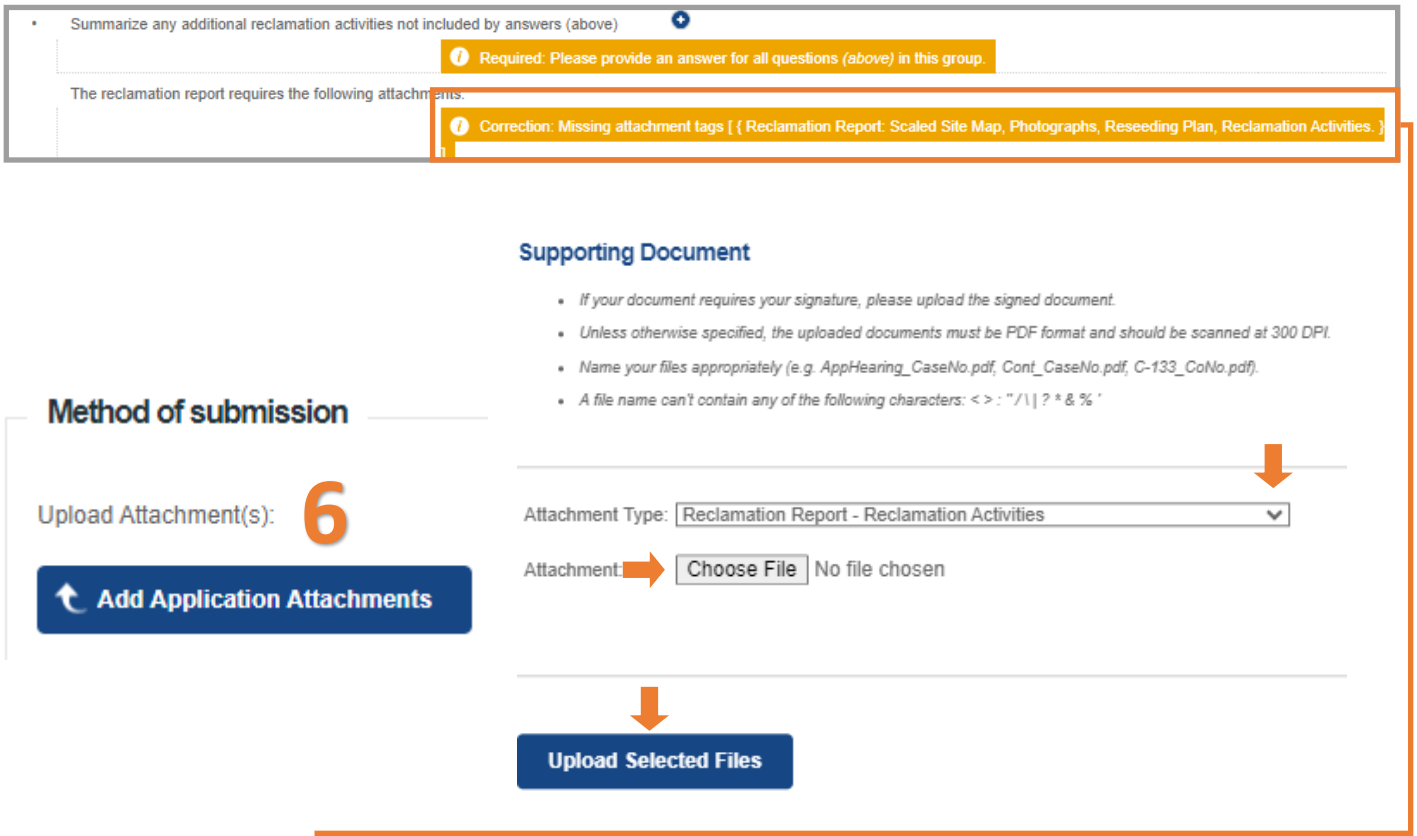
Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with cl
Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable

Δ	Is the soil top layer complete and is it suitable material to establish vegetation	Yes
Δ	On what (estimated) date will (or was) the reseeding commence(d)	03/01/2024
Δ	Summarize any additional reclamation activities not included by answers (above)	Reseeding will be initiated in the spring.

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

6. When requestion Reclamation Approval the User must submit 1 or more attachments that include the below attachment tags. Users must review their attached document to ensure that all of the items being requested are in the attached file(s). Attachments/Tags will likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.



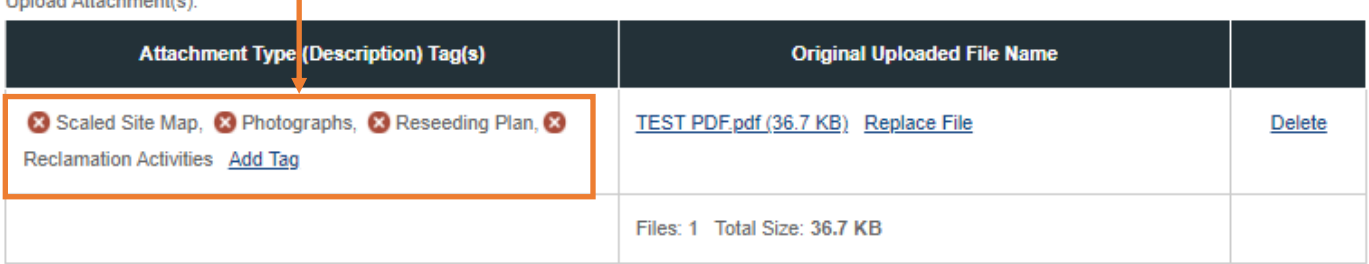
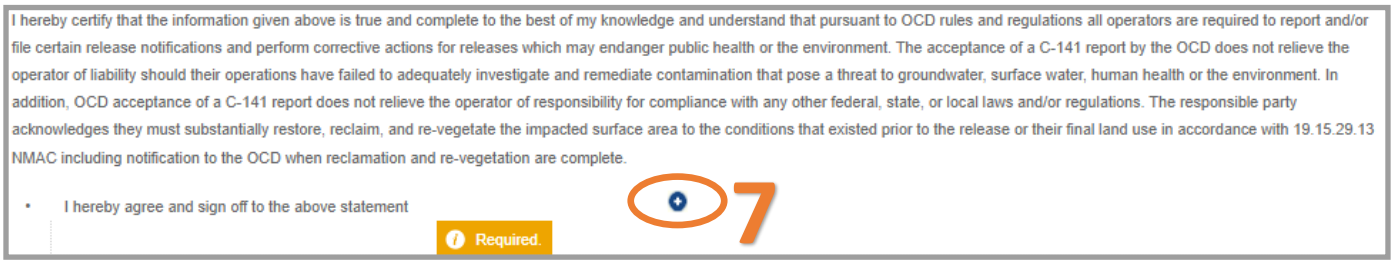


FIGURE 6

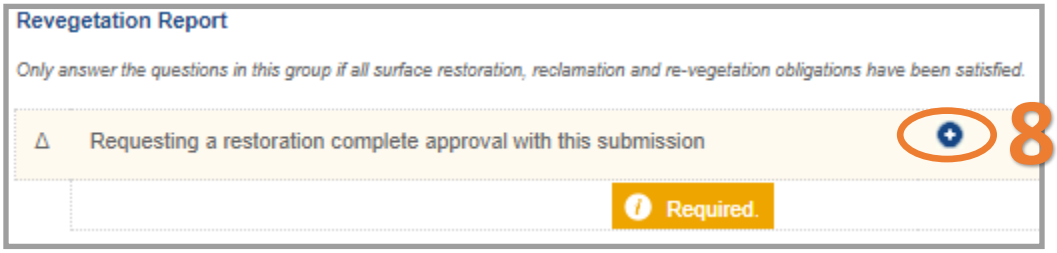
SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

7. Once all of the questions have been answered. The user should review the answers and then Sign/Certify the data for submission.



8. The User now must answer if they are requesting a Revegetation Report approval with this submission. If the user answers "no", this submission will be classified as a Reclamation Report. If the User selects yes the application will be viewed as a Revegetation Report. Please be aware that if there is not an approved Initial C-141/Remediation Plan/Remediation Closure/Reclamation Report on file the submission will ALSO count as all of those types.

Please note that OCD does not approve partial applications in the event that the User submits multiple C-141 types and the application is rejected, all C-141 types will be rejected.



9. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

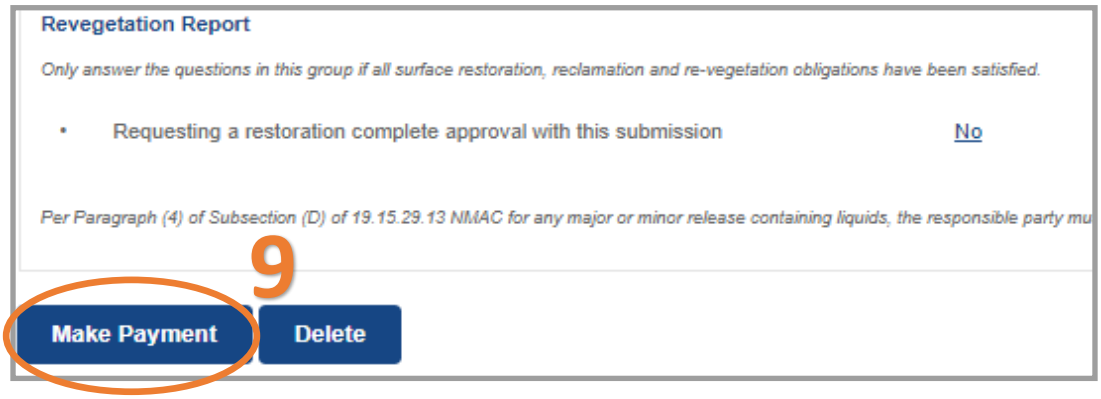


FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

Once the user has submitted the C-141 Reclamation Report to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides a PO Number that can be searched on the OCD Action Status Page.

PO Number: 4E8LQ-231115-C-1410
Payment Date: 11/15/2023
Payment Amount: $150.00
Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action
Fee Amount: $150.00
Application Status: Under OCD Review

OGRID: 300825
First Name: Test
Last Name: Test
Email: cory.smith@emnrd.nm.gov

At this state the Reclamation Report C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home > Submissions > Releases > C-141

Status: Under OCD Review

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
YGLL0-231020-C-1410	C-141	nAPP2226353908	Under OCD Review	$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
GOD86-231020-C-1410	C-141	nAPP2225225752	Under OCD Review	$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
4MA74-231023-C-1410	C-141	nAPP2225141826	Under OCD Review	$150.00	Credit Card	10/23/2023	Ashley Maxwell	10/23/2023
TGG4W-231102-C-1410	C-141	nAPP2322646789	Under OCD Review	$150.00	Credit Card	11/2/2023	Test Test	11/2/2023
IHWWC-231109-C-1410	C-141	nAPP2323758323	Under OCD Review	$150.00	Credit Card	11/9/2023	Michael Buchanan	11/9/2023
D6D6A-231109-C-1410	C-141	nAPP2215863582	Under OCD Review	$150.00	Credit Card	11/9/2023	Ashley Maxwell	11/9/2023
4E8LQ-231115-C-1410	C-141	nAPP2330760406	Under OCD Review	$150.00	Credit Card	11/15/2023	Test Test	11/15/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

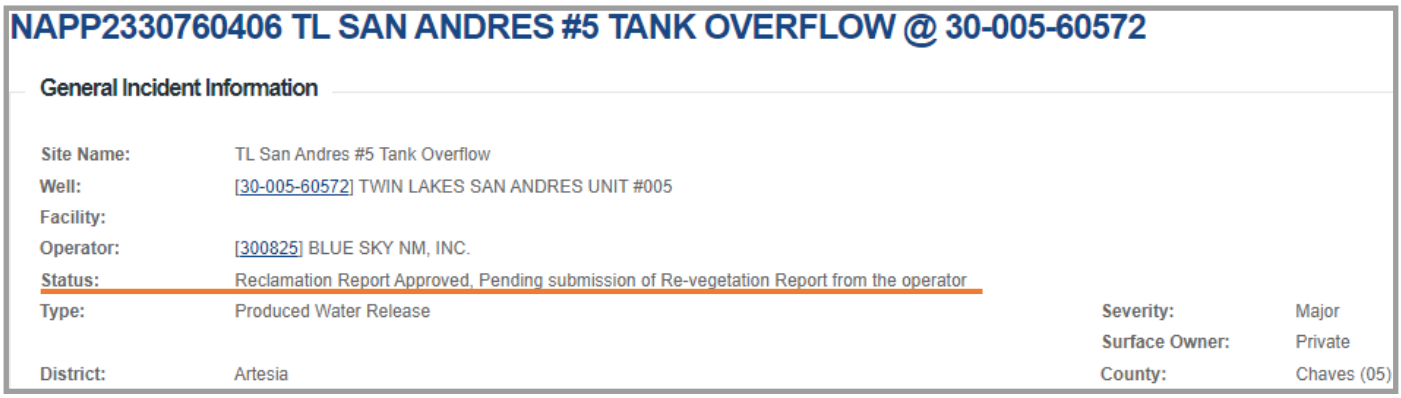
Site Name: TL San Andres #5 Tank Overflow
Well: [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [300825] BLUE SKY NM, INC.
Status: Reclamation Report Received, Pending OCD Review
Type: Produced Water Release
District: Artesia
Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 6

SUBMITTING A RECLAMATION REPORT(C-141-V-Reclmation)

The Reclamation Report works exactly like the other applications where the User identified in Step 3a will receive email's with Conditions of Approvals or Reasons for Rejections. See Figure 5 for detailed examples of Approved/Rejected status. Below are the incident status associated to the Reclamation Report.

Example of Approved



NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Reclamation Report Approved, Pending submission of Re-vegetation Report from the operator		
Type:	Produced Water Release	**Severity:**	Major
		Surface Owner:	Private
District:	Artesia	**County:**	Chaves (05)

Remember rejected Applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Remediation Closure Report.

Example of Rejected

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator		
Type:	Produced Water Release	**Severity:**	Major
		Surface Owner:	Private
District:	Artesia	**County:**	Chaves (05)

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

Revegetation Reports can be submitted after the completion of the Reclamation Report. The approved Reclamation plan will have detailed the seed mixture, proposed seeding dates and any other requirements imposed by Federal, State, or Tribal requirements if applicable. At a minimum the OCD will consider Revegetation complete when all disturbed areas have a uniform vegetative cover, that has been established and reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds.

The revegetation report section of the C-141 is used to ensure the responsible party has met the Revegetation conditions outlined in 19.15.29.13 NMAC.

To submit a Revegetation Report follow the directions below.

1. Left Click on the Submissions tab in the top right of the website.
2. Left Click on Releases and Select [C-141] Release Corrective Action ($150 fee required)

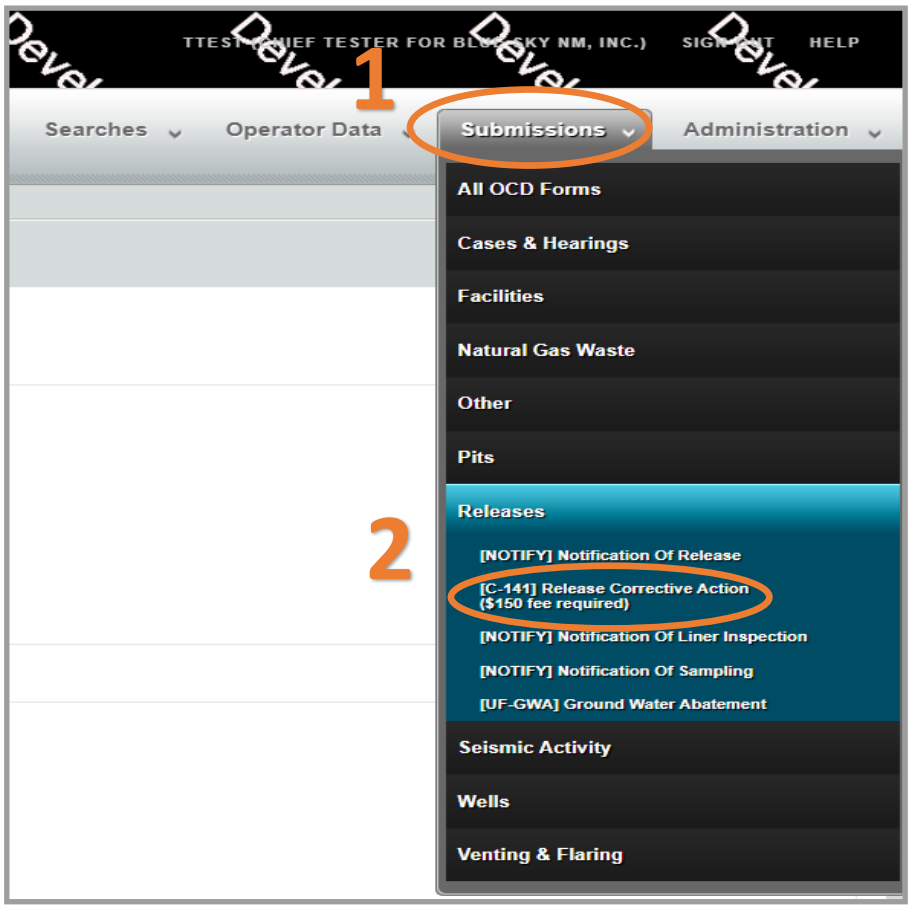
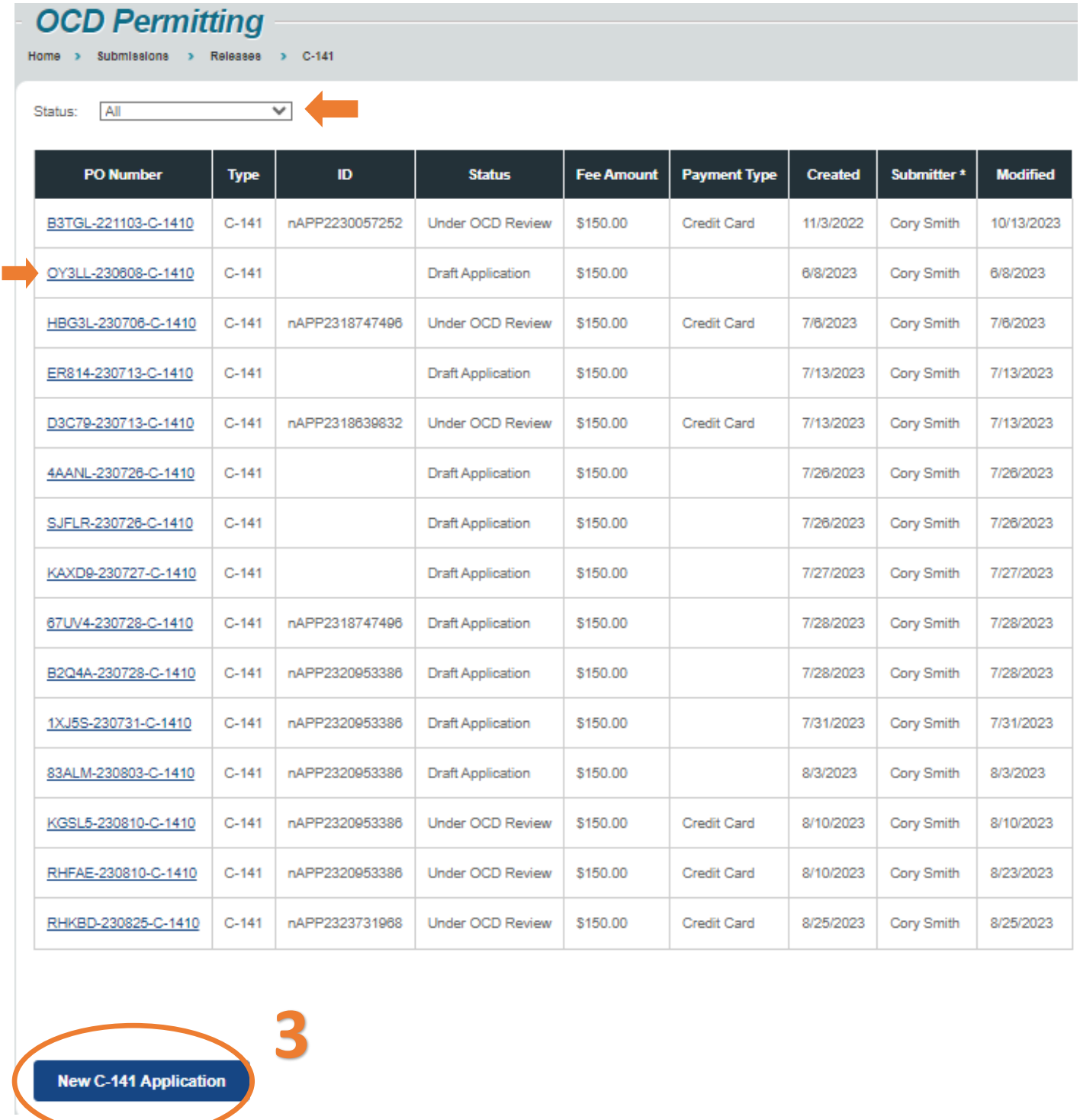


FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

On this Permitting page Users can review the status of all previous submitted C-141 Applications for their current OGRID . The user can also resume working on a previous draft version of the application by left clicking on the PO Number hyperlink. Applications types that are under OCD Review or have been Approved/ Rejected cannot be modified.

3. To create a new C-141 Application scroll down and left click on the New C-141 Application button.



PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
B3TGL-221103-C-1410	C-141	nAPP2230057252	Under OCD Review	$150.00	Credit Card	11/3/2022	Cory Smith	10/13/2023
OY3LL-230608-C-1410	C-141		Draft Application	$150.00		6/8/2023	Cory Smith	6/8/2023
HBG3L-230706-C-1410	C-141	nAPP2318747496	Under OCD Review	$150.00	Credit Card	7/6/2023	Cory Smith	7/6/2023
ER814-230713-C-1410	C-141		Draft Application	$150.00		7/13/2023	Cory Smith	7/13/2023
D3C79-230713-C-1410	C-141	nAPP2318639832	Under OCD Review	$150.00	Credit Card	7/13/2023	Cory Smith	7/13/2023
4AANL-230726-C-1410	C-141		Draft Application	$150.00		7/26/2023	Cory Smith	7/26/2023
SJFLR-230726-C-1410	C-141		Draft Application	$150.00		7/26/2023	Cory Smith	7/26/2023
KAXD9-230727-C-1410	C-141		Draft Application	$150.00		7/27/2023	Cory Smith	7/27/2023
67UV4-230728-C-1410	C-141	nAPP2318747496	Draft Application	$150.00		7/28/2023	Cory Smith	7/28/2023
B2Q4A-230728-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		7/28/2023	Cory Smith	7/28/2023
1XJ5S-230731-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		7/31/2023	Cory Smith	7/31/2023
83ALM-230803-C-1410	C-141	nAPP2320953386	Draft Application	$150.00		8/3/2023	Cory Smith	8/3/2023
KGSL5-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	$150.00	Credit Card	8/10/2023	Cory Smith	8/10/2023
RHFAE-230810-C-1410	C-141	nAPP2320953386	Under OCD Review	$150.00	Credit Card	8/10/2023	Cory Smith	8/23/2023
RHKBD-230825-C-1410	C-141	nAPP2323731968	Under OCD Review	$150.00	Credit Card	8/25/2023	Cory Smith	8/25/2023

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

3a. OCD Permitting general functions will display any errors in the orange ribbon band at the top of your screen and inline while working through the applications.

The Submissions Contact Application, Fee Payment section of the C-141 is automatically filled out based up-on the Users default contact information. The contact E-mail used in this section is where any approvals/ rejections will be sent too. In the even that you are submitting this on behalf of another member of your Organization you may edit the contact information by clicking on the edit submissions contact details button

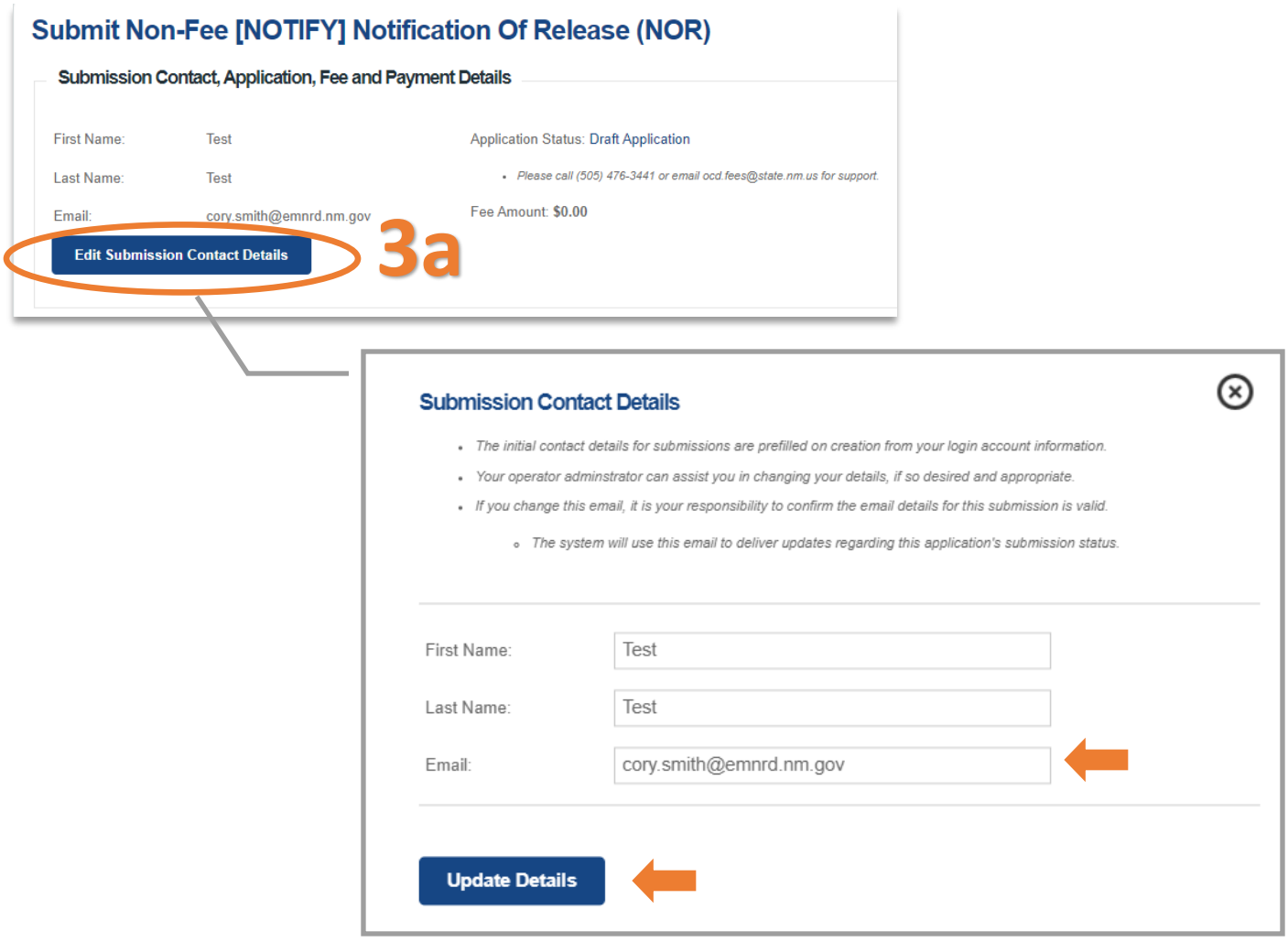


FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

4. Add the incident ID # from your Notice of Release (NOR) E-mail, C-141 Initial or from your records. Alternatively if in your NOR application you gave your release a custom site name you can also search by typing in the name into the box.

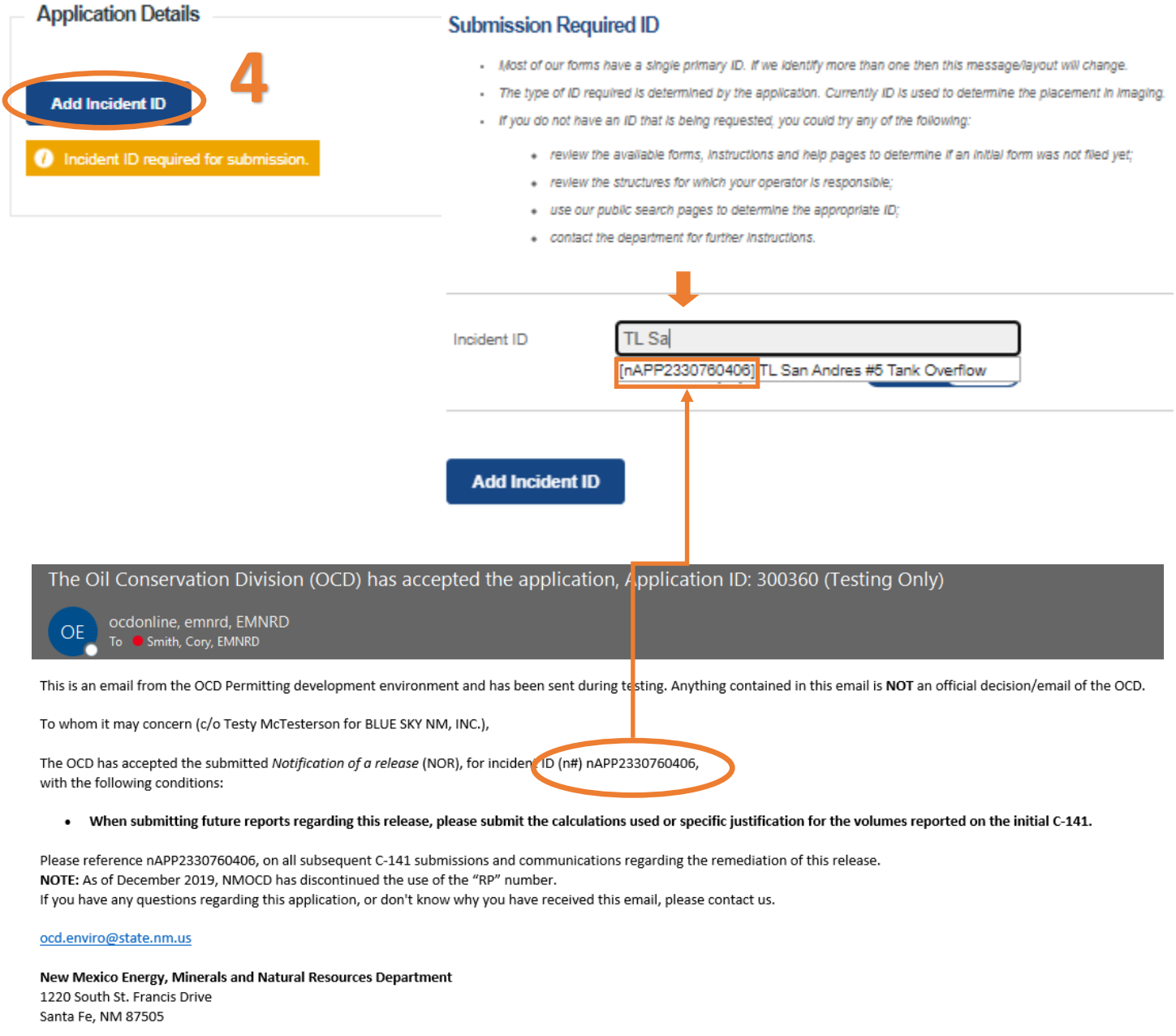


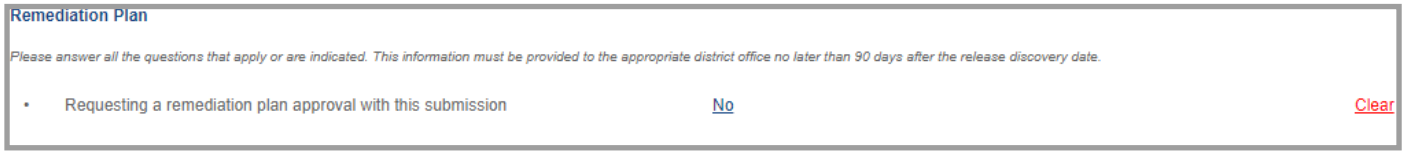
FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

Once you have entered a valid incident number the applications will populate all of the C-141 questions. You may notice that the questions are identical to the Initial/Remediation Plans and Remediation Closure C-141 and that some of the questions will already have answers in them. These answers are populated from the **APPROVED** NOR/C-141 and the applications that were submitted in Figure 1/2/3/5/6. This functionality works for all C-141 submissions allowing the User to correct/validate data provided to the OCD with each submission. Pre-populated answers only works with approved data therefor any answers provided in an application that is Under OCD Review or that was Rejected will be required to be reentered for each submission until the questions are in an approved application. Please Note that if the User changes answers to previously approved questions they will also have to include updated attachments for that section.

Example: The User answered the Requesting Remediation Plan Approval with this submission in the C-141 Initial (Figure 1) as "No". This answer signaled to OCD Permitting that the C-141 Application was an Initial C-141. Now that the User wants to submit a Remediation plan for approval they need to change the answer to this question to "Yes"

C-141 Initial Application



C-141 Remediation Plan Application: By Answer yes additional Remediation Plan questions pop up.

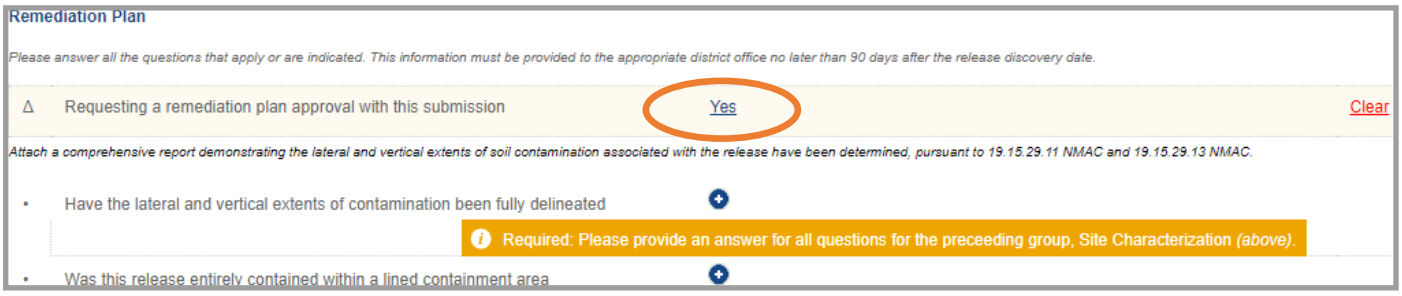
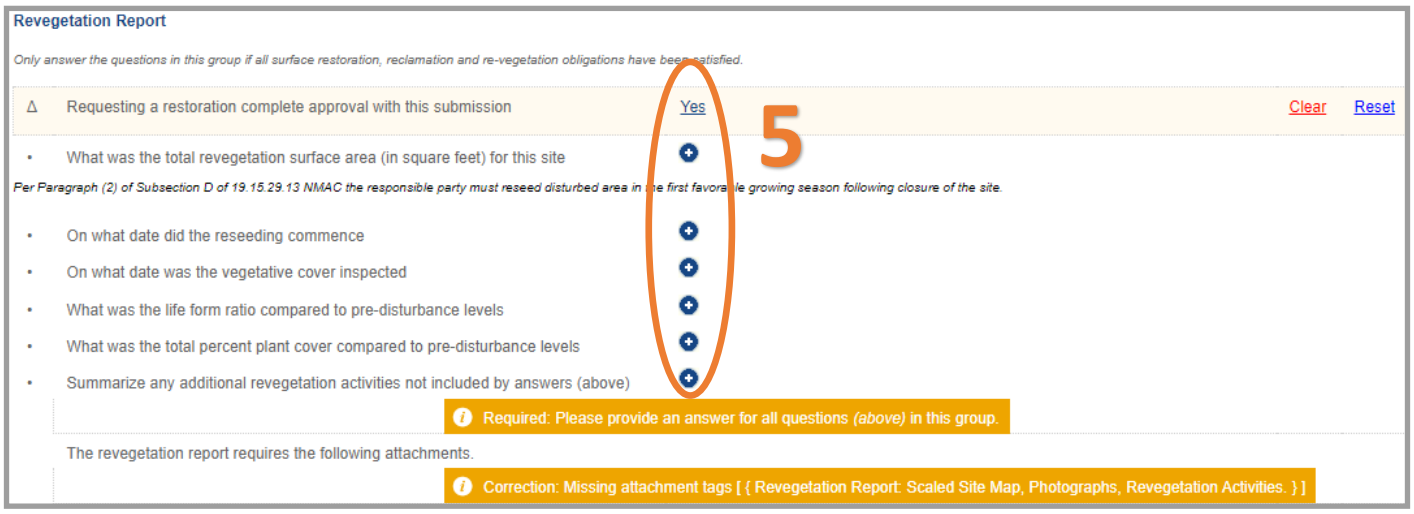


FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

5. To start a Revegetation Report the User selects Yes to Requesting a Restoration Complete approval the Revegetation Report questions will appear and are required to be answered.



This is a “New” Process to the OCD as historically Revegetation information was very rarely provided to the OCD. Due to the Incident status changes OCD is now divesting this section to be a standalone report. Responsible Parties are required to Revegetate all unauthorized releases. Revegetation occurs in the first favorable growing season follow the completion of reclamation. As discussed in Figure 6 Reclamation time frames depend on if the release is in an area reasonably needed for production or subsequent drilling operations. For releases that are a cross between Areas reasonable need and not reasonable needed, responsible parties should Revegetate in the first favorable growing season following reclamation for each area.

The Revegetation Report will be submitted when ALL areas have met the requirements of 19.15.29.13 NMAC.

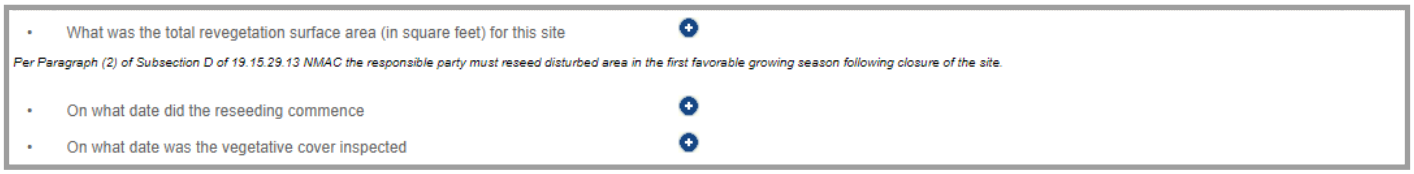
A Reclamation Report will need to include the following information.

1. Executive Summary of the Revegetation Activities
2. Scaled Site Map
3. Revegetation report/inspection –Detailing the life form ratio / no noxious weeds.
4. Photographs

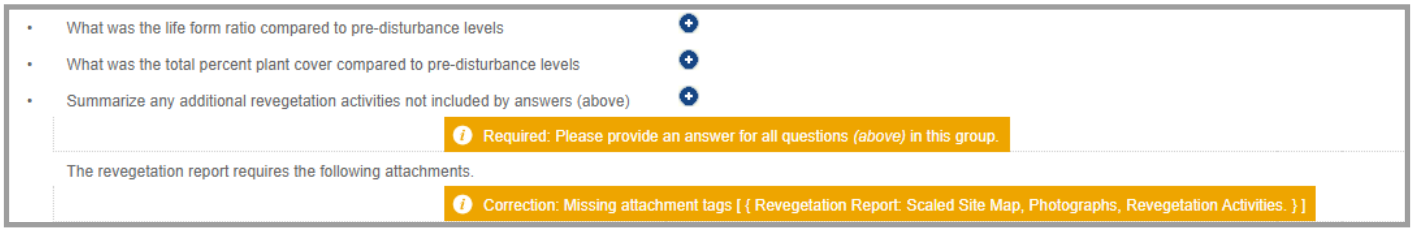
FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

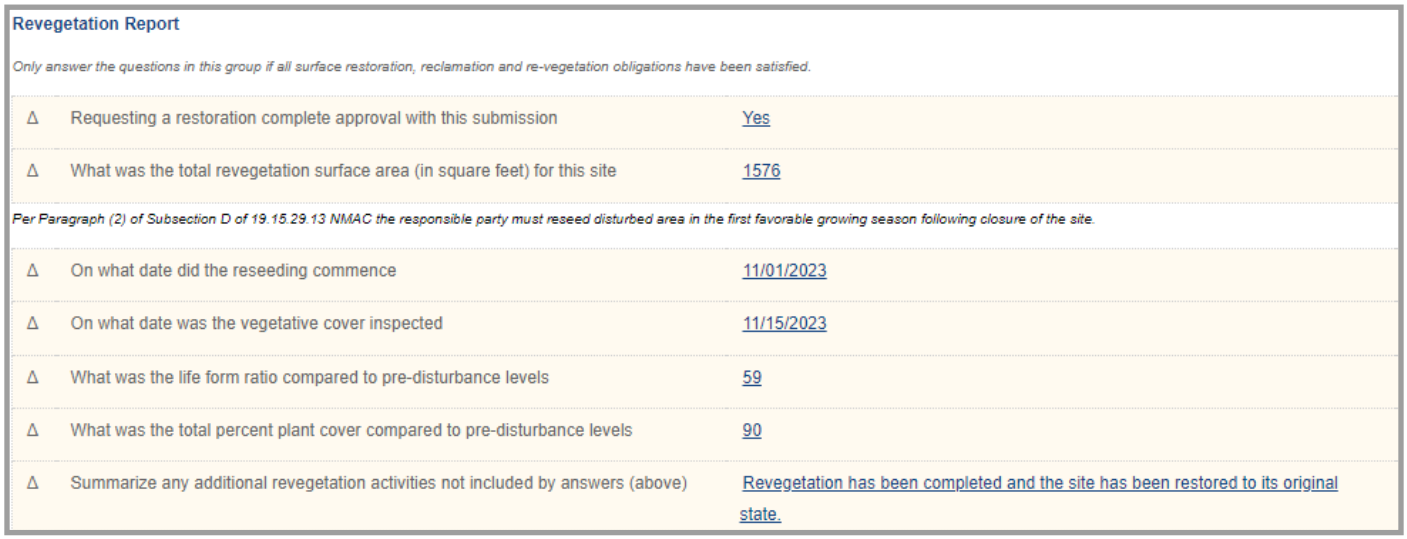
5. *Continued*



Users will provide the total area that was revegetated. Users will also provide the date the reseeding was done and the date in which the “final” vegetative cover inspection was completed. The Revegetation report and photographs from this inspection should be include in your report.



Pursuant to 19.15.29.13.D(3) the Revegetation and therefore Restoration will be considered complete when uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds for all disturbed areas . Users will provide the OCD this information from their “Final” vegetation cover inspection



Revegetation Report

Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.

Δ	Requesting a restoration complete approval with this submission	Yes
Δ	What was the total revegetation surface area (in square feet) for this site	1576

Per Paragraph (2) of Subsection D of 19.15.29.13 NMAC the responsible party must reseed disturbed area in the first favorable growing season following closure of the site.

Δ	On what date did the reseeding commence	11/01/2023
Δ	On what date was the vegetative cover inspected	11/15/2023
Δ	What was the life form ratio compared to pre-disturbance levels	59
Δ	What was the total percent plant cover compared to pre-disturbance levels	90
Δ	Summarize any additional revegetation activities not included by answers (above)	Revegetation has been completed and the site has been restored to its original state.

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

6. When requestion Revegetation/Restoration Approval the User must submit 1 or more attachments that include the below attachment tags. Users must review their attached document to ensure that all of the items being requested are in the attached file(s). Attachments/Tags will likely change in future development. To add an attachment scroll to the top of the application left click the Blue Add Attachment Button. Select the type of attachment you are uploading from the drop down list. Left click the Choose file button to select the file from your computer to upload. Once you have selected the file you wish to upload save the upload by left clicking the Upload selected Files. Repeat this process for multiple Attachments.

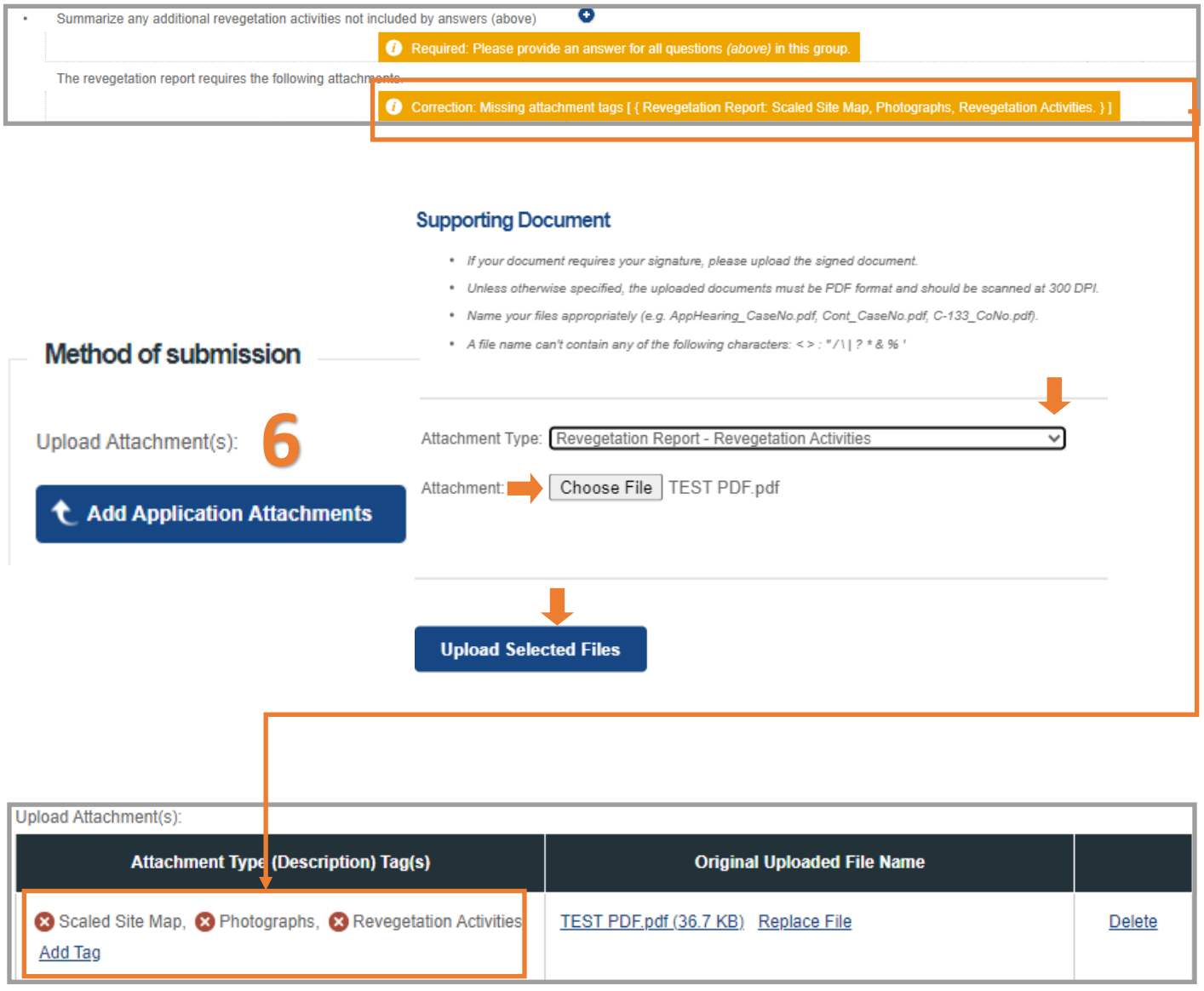
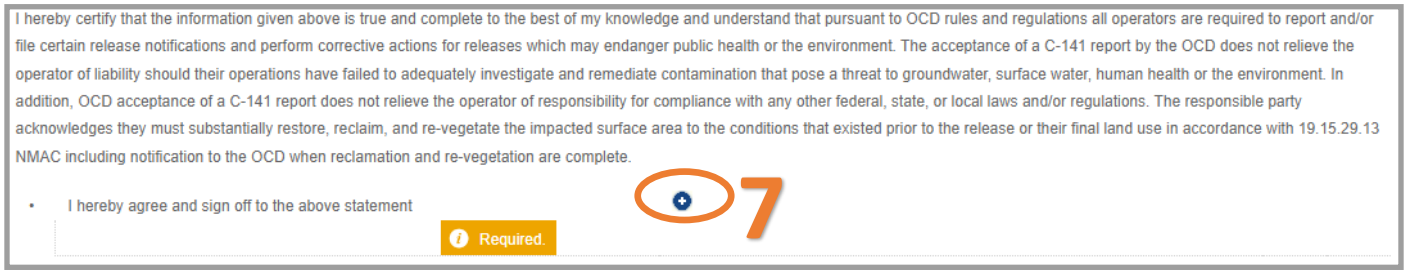


FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

7. Once all of the questions have been answered. The user should review the answers and then Sign/Certify the data for submission.



9. Review your C-141 application for accuracy and completeness. This is the last chance before submitting the document to the OCD to make any corrections to this data. Operators will have the ability to modify these questions/response on any subsequent C-141 submission. To submit the application to the OCD click the Make Payment button. You will be directed to a Third Party website to process payment.

Clicking the Delete button will clear the entire application and remove it from your application que.

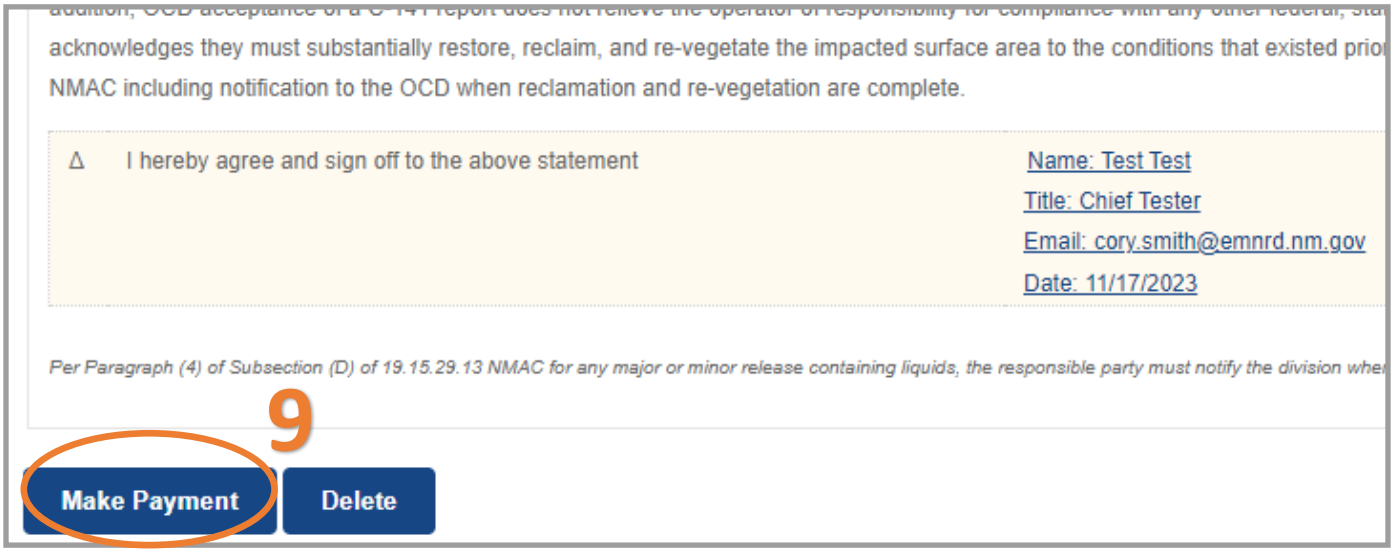


FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

Once the user has submitted the C-141 Revegetation Report to the OCD. The user email which was identified in step 3a will receive an email from emnrd.ocdonline@emnrd.nm.gov that is the receipt and proof of submission to the OCD. The receipt provides a PO Number that can be searched on the OCD Action Status Page.

PO Number: M70TQ-231117-C-1410
Payment Date: 11/17/2023
Payment Amount: $150.00
Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective actio
Fee Amount: $150.00
Application Status: Under OCD Review

OGRID: 300825
First Name: Test
Last Name: Test
Email: cory.smith@emnrd.nm.gov

At this state the Revegetation Report C-141 Application is Under OCD Review (Submitted) and the incident status will change to reflect the current status of the incident.

OCD Permitting

Home › Submissions › Releases › C-141

Status: Under OCD Review

PO Number	Type	ID	Status	Fee Amount	Payment Type	Created	Submitter *	Modified
YGLL0-231020-C-1410	C-141	nAPP2226353908	Under OCD Review	$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
GOD86-231020-C-1410	C-141	nAPP2225225752	Under OCD Review	$150.00	Credit Card	10/20/2023	Ashley Maxwell	10/20/2023
4MA74-231023-C-1410	C-141	nAPP2225141826	Under OCD Review	$150.00	Credit Card	10/23/2023	Ashley Maxwell	10/23/2023
TGG4W-231102-C-1410	C-141	nAPP2322646789	Under OCD Review	$150.00	Credit Card	11/2/2023	Test Test	11/2/2023
IHWWC-231109-C-1410	C-141	nAPP2323758323	Under OCD Review	$150.00	Credit Card	11/9/2023	Michael Buchanan	11/9/2023
D6D6A-231109-C-1410	C-141	nAPP2215863582	Under OCD Review	$150.00	Credit Card	11/9/2023	Ashley Maxwell	11/9/2023
4E8LQ-231[illegible]-C-1410	C-141	nAPP2330760406	Under OCD Review	$150.00	Credit Card	11/15/2023	Test Test	11/15/2023
M70TQ-231117-C-1410	C-141	nAPP2330760406	Under OCD Review	$150.00	Credit Card	11/17/2023	Test Test	11/17/2023

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name: TL San Andres #5 Tank Overflow
Well: [30-005-60572] TWIN LAKES SAN ANDRES UNIT #005
Facility:
Operator: [300825] BLUE SKY NM, INC.
Status: Re-vegetation Report Received, Pending OCD Review
Type: Produced Water Release
District: Artesia

Severity: Major
Surface Owner: Private
County: Chaves (05)

FIGURE 7

SUBMITTING A REVEGETATION REPORT(C-141-V-Revegetation)

The Revegetation Report works exactly like the other applications where the User identified in Step 3a will receive email's with Conditions of Approvals or Reasons for Rejections. See Figure 5 for detailed examples of Approved/Rejected status. Below are the incident status associated to the Revegetation Report.
This is the final C-141 once the Revegetation Report is approved Restoration is considered Complete.

Example of Approved

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Re-vegetation Report Approved, Restoration Complete		
Type:	Produced Water Release	**Severity:**	Major
		Surface Owner:	Private
District:	Artesia	**County:**	Chaves (05)

Remember rejected Applications do not show a rejected status but will display the furthest along APPROVED application. In this case the last accept application was the Remediation Closure Report.

Example of Rejected

NAPP2330760406 TL SAN ANDRES #5 TANK OVERFLOW @ 30-005-60572

General Incident Information

Site Name:	TL San Andres #5 Tank Overflow		
Well:	[30-005-60572] TWIN LAKES SAN ANDRES UNIT #005		
Facility:			
Operator:	[300825] BLUE SKY NM, INC.		
Status:	Remediation Closure Report Approved, Pending submission of Reclamation Report from the operator		
Type:	Produced Water Release	**Severity:**	Major
		Surface Owner:	Private
District:	Artesia	**County:**	Chaves (05)

ATTACHMENT 2

Incident Report Form

INCIDENT REPORT FORM

Moonshine Energy, LLC. M3 Oil Treatment Facility
NM-128, Lea County, New Mexico

Type of Incident and General Information	
☐ Work Related Injury/Illness	☐ Vandalism/Criminal Activity
☐ Property Damage	☐ Fire
☐ Vehicular Accident	☐ Release/Spill
☐ Unsafe Act/Near Miss	☐ Other:_____(explosion, fall, etc.)

Employee Name:_____ Job Title:_____

Phone No:_____ Date of Incident: _____ Time of Incident:_____

Location of Incident:_____

Start of Shift:_____ Weather:_____

Date & Time Reported to Management: Date: _____ Time:_____

Reported to:_____ Title: _____ Reported by:_____

Injury Category of Incident when First Reported
☐ N/A: Employee does not claim an injury associated with the incident
☐ Notice Only of Incident, Declined Medical Treatment at this time
☐ First Aid done on site, Declined Medical Treatment at this time
☐ Medical Treatment. Transported by:_____ to:_____
☐ Fatality. Employee Name: _____

Employee's Description of Incident		
Were you injured?	☐ Yes	☐ No
Type of Injury:		
Area of Body:		
Explanation of Incident (in your own words):		

TO BE COMPLETED BY EMERGENCY COORDINATOR
Describe the order and sequence of events leading to the incident and/or injury:
Identify possible hazards to human health or the environment:
Identify name and quantity of material(s) involved:

CORRECTIVE ACTIONS
Equipment, Practices, Environment, Retraining) Steps that have been, or will be, taken to prevent recurrence:
Date Corrective Action Completed:

Employee Signature: _____ Date: _____

Report Reviewed & Concluded by:

_____ _____

Emergency Coordinator Signature Date

APPENDIX I

STORMWATER MANAGEMENT PLAN

Stormwater Control Plan

The Big Still Oil Treatment Facility

Lea County, New Mexico

C-137 Surface Treatment Facility Application

May 2025

Prepared for:

MICHAEL D. JOHNSON NEW MEXICO 17751 REGISTERED PROFESSIONAL ENGINEER

Michael D. Johnson, P.E.

MOONSHINE ENERGY, LLC

Moonshine Energy, LLC
3206 Ma Mar Ave
Midland, TX 79705

SMA
Souder, Miller & Associates
Engineering ♦ Environmental ♦ Geomatics
5454 Venice Avenue NE, Suite D ♦ Albuquerque, NM 87113
505.299.0942 ♦ fax 505.293.3430 ♦ www.soudermiller.com

Stormwater Control Plan
THE BIG STILL OIL TREATMENT FACILITY

TABLE OF CONTENTS

LIST OF APPENDICES

The Big Still Oil Treatment Facility
Stormwater Control Plan
NM OCD C-137 Facility Application

1.0 INTRODUCTION

This Stormwater Control Plan (SCP) was prepared by Souder, Miller & Associates (SMA) for Moonshine Energy, LLC to provide necessary information pertaining to the stormwater control for the proposed Big Still Oil Treatment Facility (Facility). This SCP is intended to support the permit application for the facility meeting the requirements of all authorities having jurisdiction (AHJ). The following SCP provides calculations and rationale for the off-site and on-site stormwater control for the facility as presented on the permit drawings in Appendix S.C.P.1.

1.1 General Facility Information

The Moonshine Energy, LLC Big Still Oil Treatment Facility (Facility) is a proposed surface waste treatment facility. The purpose of the facility will include processing tank bottoms, produced water, or other hydrocarbons from oil and gas operations to separate usable hydrocarbon material for sale and processing. No solid waste, contaminated media, or other hazardous materials will be accepted or processed at the Facility.

The proposed Facility will be located near mile marker 37.3 on New Mexico Highway 128, approximately 15 miles west of the City of Jal, New Mexico. The property is located within Township 24 South, Range 34 East, Section 25, and consists of a 5.4± acre parcel leased to Moonshine Energy, LLC. A vicinity map for the facility is included as Figure 1. The facility will utilize the entire parcel, and will consist of a fenced, cleared and leveled area with caliche surface cover allowing for access and maneuvering of large trucks and equipment. Three tank batteries will be located on the facility for processing tank bottoms, hydrocarbons, or produced water delivered to the facility. Two tank batteries, located in the west-central portions of the property, will be used for the receipt of waste and for storage of reclaimed hydrocarbons prior to sale. Each of the two batteries will consist of ten (10) 500 barrel (bbl) (21,000 gallon) capacity steel frac tanks, situated within a secondary containment area constructed of 3-foot steel walls lined with a with a 40-mil High Density Polyethylene (HDPE) liner to prevent release of any spilled material. An additional tank battery consisting of four (4) 750 bbl (31,500 gallon) fiberglass tanks will be located on the southeast portion of the Facility and be utilized to store saltwater until it is removed for disposal. A site map with the proposed facility plan is included in Appendix S.C.P.1.

1.2 Regulatory Oversight

The Moonshine Energy, LLC Big Still Oil Treatment Facility (Facility) is a proposed surface waste treatment facility which will be established and operated in accordance with New Mexico Oil Conservation Division (NM OCD) regulations as outlined and defined by New Mexico Administrative Code (NMAC), Title 19 – Natural Resources and Wildlife, Chapter 15- Oil and Gas, Part 36 – Surface Waste Management Facilities (19.15.36). This SCP will provide the engineering calculations to satisfy stormwater requirements detailed in 19.15.36.13.M.1 and 19.15.36.13.M.2.

2.0 Scope of Investigation

The intent of this investigation is to identify drainage characteristics within the project area and identify any areas of concern that require additional storm water routing. Further discussion of the findings is located in Sections 7.0 and 8.0. These findings include:

- Identifying probable contributing drainage basins, external and internal, that are responsible for conveying runoff flow into the project area.
- Determining the peak discharge rates and runoff volume from the determined drainage basins for the 25-year frequency storm events as required by NMAC 19.15.36.
- Appropriately sizing, when required, hydraulic structures which include but are not limited to ponds, roadways, channels, and storm drain structures for the 25-year frequency storm events.

3.0 Methodology

This drainage analysis was completed using the methodology outlined in the Engineering Field Manual for Conservation Practices, Chapter 2 titled "Peak Rates of Discharge for Small Watersheds" published in 1985 by the Natural Resources Conservation Service, United States Department of Agricultural.

4.0 Site Characteristics

4.1 Climate

The City of Jal and surrounding areas have a mild, arid or semi-arid continental type climate. This climate is characterized by fairly hot summers with mild winters and warm spring and fall seasons. The air within this area is generally classified as clear and dry with considerable annual and diurnal fluctuations in temperature.

On average, the majority of rainfall experienced in this area occurs during the summer months in the form of thunderstorms. These storms are of short duration and are a result of convective and/or orographic lifting of air masses. Stronger thunderstorms occur following a period of inflow of warm airs originating from the Gulf of Mexico. Occasional precipitation occurs as a result of an invasion of tropical Pacific air. Frontal activity is most prevalent in the area and is accompanied by rain or snow of light intensity.

4.2 Rainfall

Data from the Western Regional Climate Center (WRCC, 2024) indicates that during the period from 1942 to 2016, the Ochoa, New Mexico Co-Op station received an average of 11.8 inches of precipitation per year, with the wettest months occurring from May to October. Evaporation from the region, as indicated by the National Oceanic and Atmospheric Administration Evaporation Atlas (NOAA, 1982) for surface water (shallow lakes) is approximately 80 inches per year. The average daily high temperature in the area is 78°F, and the average daily low temperature is 47°F (WRCC, 2024).

Utilizing N.O.A.A Precipitation Frequency Data Server (Atlas 14, Volume 1, Version 5), the precipitation frequency estimates for the project area were obtained. The geographical coordinates for the project area are Latitude 32.1954° and Longitude -103.427°. The corresponding NOAA precipitation frequency

estimates are provided in Appendix S.C.P.3. The 24-hour duration rainfall totals for this development is as follows:

Jal, NM Rainfall Summary				
Duration	Average Recurrence Interval			
	2 Year	10 Year	25 Year	100 Year
24-hour	2.07 inches	3.38 inches	4.23 inches	5.68 inches

The estimated precipitation values listed above were used for the completion of the following SCP. In order to incorporate the estimated rainfall intensity as a principal factor of peak flows on a small watershed, the Natural Resources Conservation Service (NRCS) developed a Type II rainfall distribution. It was concluded based on NRCS data base, that the facility would fall into the Type II distribution.

4.3 Terrain

The project area is located near undeveloped areas with New Mexico State Road 128 along the eastern property line. Based on USGS survey data as shown on the Storm Water Control Basin Map in Appendix S.C.P.2 and Autodesk Civil 3-D software the project area has generally shallow sloping terrain, with slopes ranging between 0.3% and 0.6%. The tract of land where the development will occur contains approximately 5.40 acres of land. Additionally, a +/- 470.17-acre area located generally northwest of the project site will be assumed to be the run-on area.

Topography in the area is relatively flat with a general slope to the east-southeast. The proposed Facility property follows the local topography, with a high elevation of approximately 3,420 ft amsl on the western boundary, sloping down to an elevation of 3,410 ft amsl on the eastern boundary.

4.4 Federal Emergency Management Agency

The project area is located in the solid shaded region of Flood Zone D of the Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps. The solid shaded region of Flood Zone D is an area of undetermined flood hazard. The corresponding map number for the project location is Map #35025C1925D, dated December 16, 2008 an unprinted FEMA Map. The FEMA FIRMette Map is included in Appendix S.C.P.2. The project area is indicated on the FEMA FIRMette map with a red marker.

5.0 GEOLOGY AND SOIL CHARACTERISTICS

5.1 Geology and Origin of Soil

The proposed Facility is located on the eastern edge of the Delaware Basin, a structural feature and depositional basin that covers over 13,000 square miles in southeastern New Mexico and west Texas (Fichera, et al,. 2024). The Delaware basin is contained within the larger Permian Basin. The Delaware basin consists of marine sediments deposited in the Permian Period which were subsequently covered by fluvial river sediments after the retreat of sea level during the Triassic Period. The area was later uplifted as part of the Laramide Orogeny and erosion and weathering has shaped the area into the topography currently existing today. The buried marine organisms from the Permian Period, including corals and other organic material, were subjected to heat and pressure after burial and eventually formed the oil and gas deposits which are currently being extracted from the area.

The local surface geology of the area surrounding the proposed Facility was mapped at a 1:250,000 scale by Barnes et al. in 1976, and is now summarized as part of the Geologic Atlas of Texas database. A portion of the geologic map prepared for the area, as sourced from the Geologic Atlas of Texas online GIS database, is included as Figure 2. A west-east geologic cross section of the area prepared by Fichera et al. (2024) is included as Figure 2A., and a north-south geologic cross section of the area prepared by Meyer et al. (2012) is included as Figure 2B.

Facility Boundary

N

Proposed Facility

Drill Hole

Ochoa

Bob Tank

Vivian Tank

Johnson Grass Tank

Antelope

Gravel Pit

Well

Fairview Windmill

Draw

Base Map from Woodley Flat, NM USGS Quadrangle (1976)

Hobbs

Carlsbad

285

Miles

0 0.25 0.5 1

Sources: ESRI, Souder, Miller & Associates

Rev #	Date	Description	By	Chkd

Souder, Miller & Associates
Engineering & Environmental Consultants
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

VICINITY MAP ON USGS QUADRANGLE THE BIG STILL WASTE FACILITY LEA COUNTY, NM

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

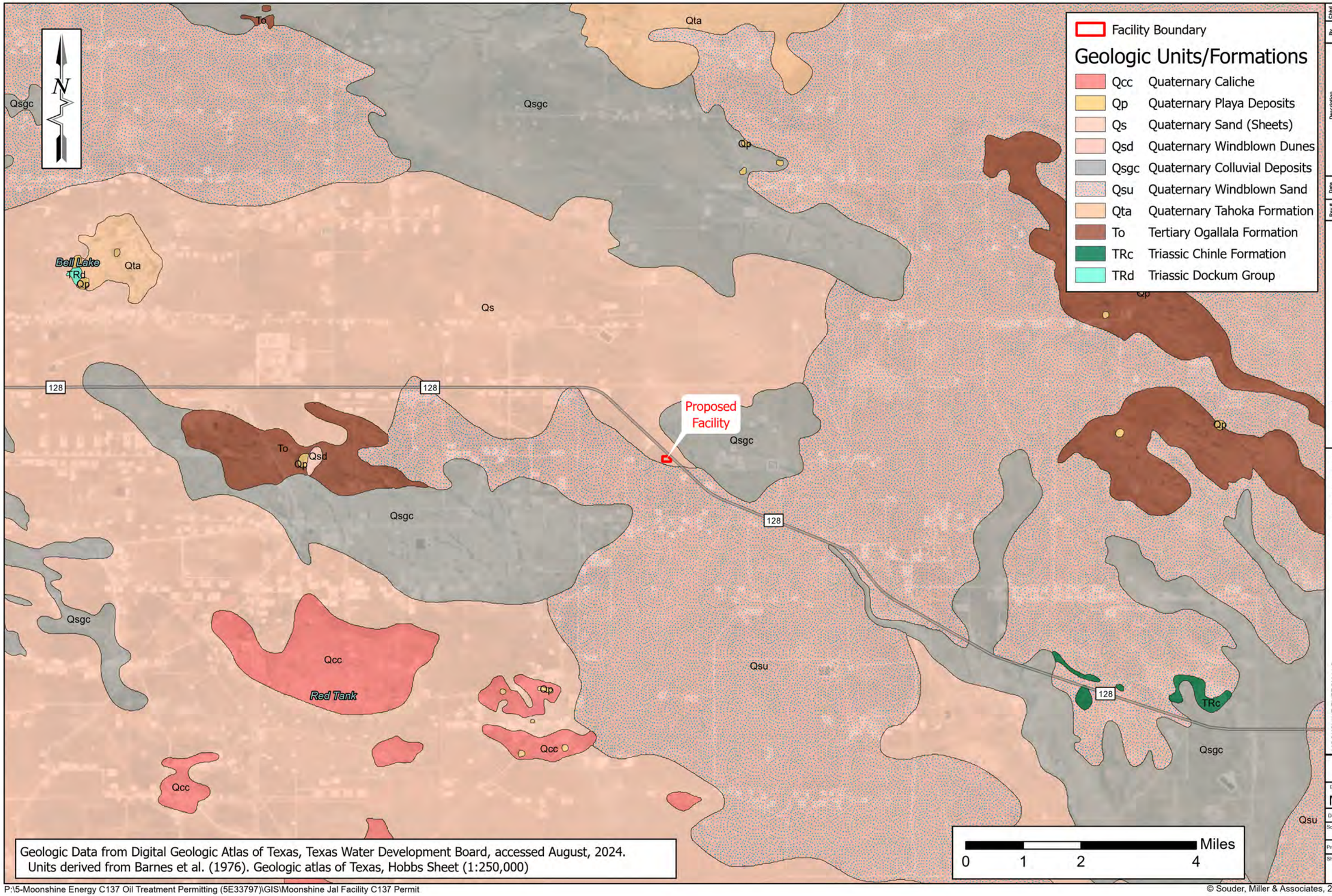
Date: 12/13/2024

Scale: Horiz: 1" = 2,000' Vert:

Project No: 1C33668

Sheet: FIGURE 1

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit



SMA
Souder, Miller & Associates
Engineers • Surveyors • Environmental
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

SURFICIAL GEOLOGY MAP
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

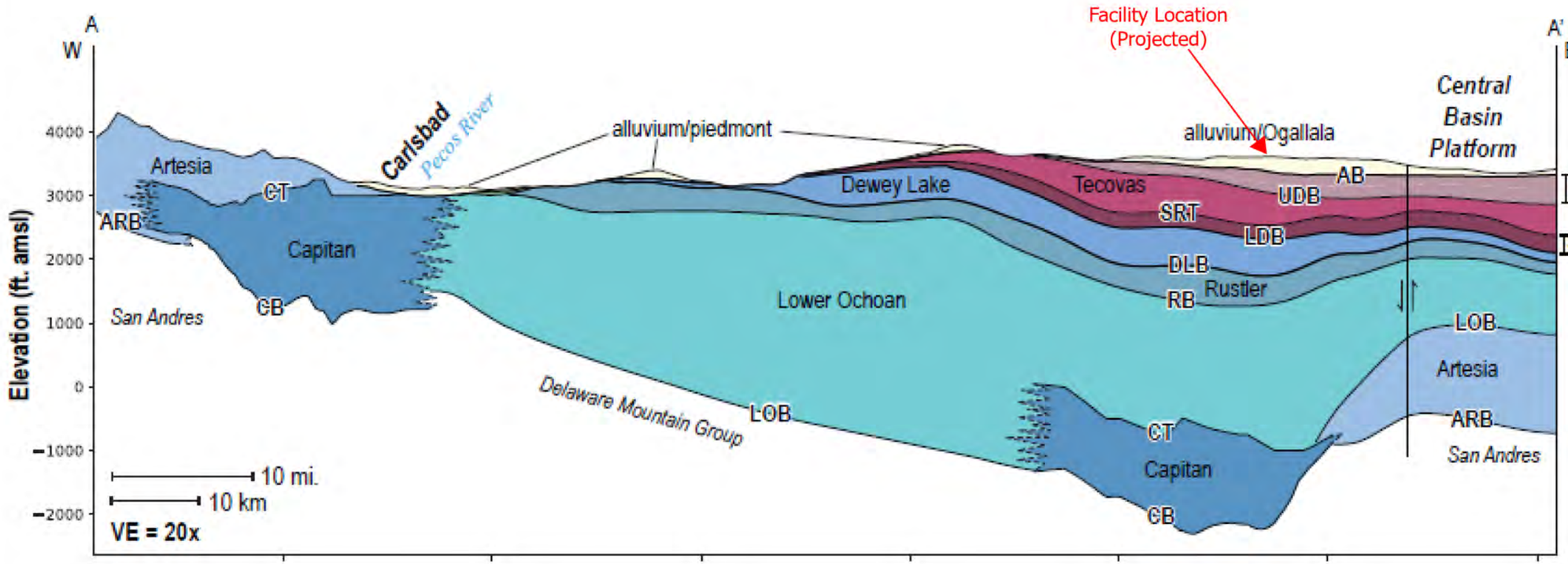
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

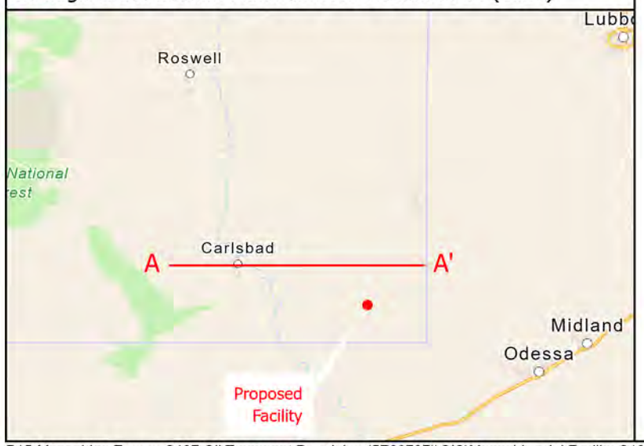
Date: 12/13/2024
Scale: Horiz: 1" = 8,333'
Vert:
Project No: 1C33668
Sheet: FIGURE 2

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit



Geologic Cross Section Modified from Fichera et al. (2024)



Rev # | Date | Description | By | Chkd

SMA
Souder, Miller & Associates
Engineering | Environmental
Consultants
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

C-137 APPLICATION

MOONSHINE ENERGY, LLC

GEOLOGIC CROSS SECTION A-A'
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 12/13/2024

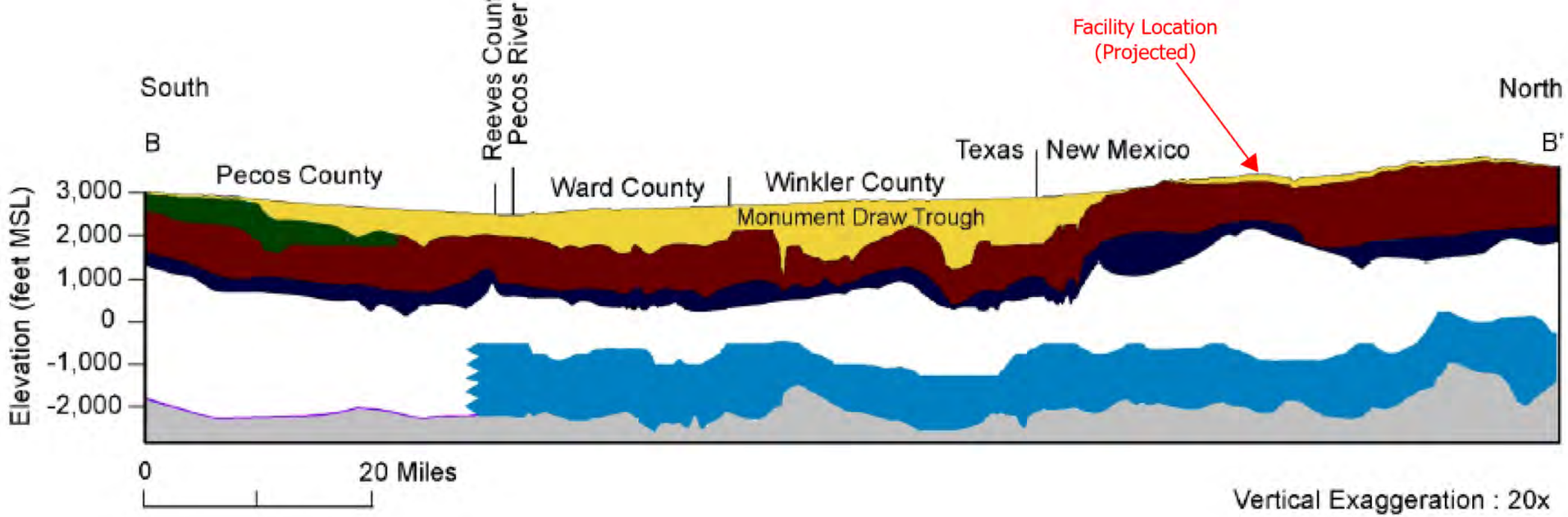
Scale: Horz: Vert:

Project No: 1C33688.

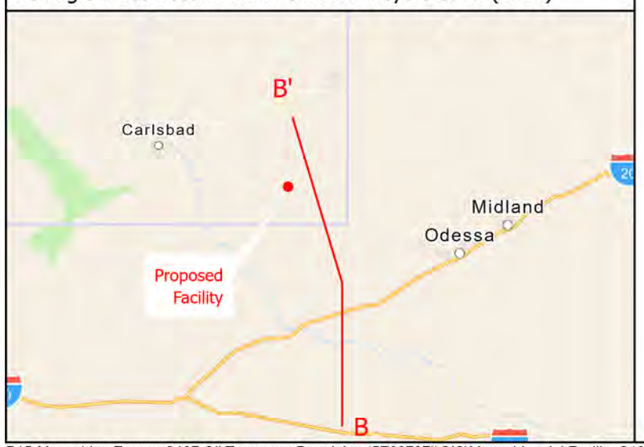
Sheet: FIGURE 2A

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit



Geologic Cross Section Modified from Meyers et al. (2012)



GEOLOGIC CROSS SECTION B-B'
THE BIG STILL WASTE FACILITY
LEA COUNTY, NM

C-137 APPLICATION

MOONSHINE ENERGY, LLC

Souder, Miller & Associates
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone: (505) 299-0942

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MAE	MAE	MJK

Date: 12/13/2024
Scale: Horz: Vert:
Project No: 1C33668
Sheet:

FIGURE 2B

Sources: ESRI, Souder, Miller & Associates

P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\GIS\Moonshine Jal Facility C137 Permit

5.2 Hydrologic Soil Classification

Hydrologic soil classification was determined from soil survey information available from the local Natural Resources Conservation Services field office. Soil Survey of the Lea County Area was accessed on-line via the United States Department of Agriculture Web Soil Survey at http://websoilsurvey.sc.egov.usda.gov/app/WebSoilSurvey.aspx. This information was used to determine the soil classification and properties within the project area. A map titled "Custom Soil Resource Report, Soil Map" shows the locations of the individual soils used in this drainage report and can be found in Appendix S.C.P.3.

The soil survey map for this area shows that the following soil types are found within the project area and within the drainage basins leading into the project area:

Soil Types		
Soil Symbol	Soil Group Name	Hydrologic Soils Class
BE	Berino-Caique loamy fine sands association	B/C
PU	Pyote and Maljamar fine sands	A/B
PY	Pyote soils and Dune land	A
TF	Tonuco loamy fine sand, 0 to 3 percent slopes	D

There are four soil types and four corresponding hydrologic soil classification within the project boundary of the facility.

6.0 BASIN DESCRIPTIONS

6.1 General Drainage Characteristics

The run-off drainage basin containing approximately 5.40-acres and the run-on drainage basin containing approximately 470.17-acres of land are located in Jal, New Mexico. The project area constitutes part of a shallow sloping plain described as a Central Basin Platform which slopes generally west to east in the project area. The current drainage pattern is comparatively stable with shallow slopes ranging from 0.3% to 0.6% from west to east.

The proposed Facility is located within the Chihuahuan Desert Grasslands Ecoregion (Griffith et al., 2006) at an elevation of 3,420 feet above sea level. This ecoregion is characterized by fine-textured soils including silts and clays with higher water retention than rockier soils at lower elevations. Annual precipitation within these regions is higher than other Chihuahuan Desert subregions, allowing for establishment of grasslands within elevated basins, plateau tops, and north-facing slopes. Typical grasses within the ecoregion include black, blue, and sideoats grama, dropseeds, bush muhly, and tobosa, along with scatted shrubs and cacti including mesquite, creosote, prickly pear, and cholla. Many areas are now dominated by shrubs as erosion, drought, and climate change reduce the extent of grasses (Griffith et al., 2006).

6.2 Land Use

The pre-development condition of the +/- 5.40-acre run-off property to be developed is that of an undisturbed natural state. The site currently discharges storm water from the northwest toward the southeast in the direction of New Mexico State Road 128. The run-off drainage basin is delineated based

on updated USGS topographic data and is shown as run-off basin on the basin map provided in Appendix S.C.P.2.

Similarly, the +/- 470.17-acre run-on property drainage basin located to the west of the development is mostly in an undisturbed natural state with portions of graded dirt roadways. The run-on basin currently discharges storm water from the northwest toward the southeast in the direction of the project area. Under normal conditions, during storm events, exterior stormwater flows enter the project area from the northwest direction. The contributing run-on drainage basin is delineated based on updated USGS topographic data and are shown as run-on basin on the basin map provided in Appendix S.C.P.2..

The external conditions of the adjoining properties are as follows; the property to the north of the project area boundary consists of undeveloped land in its natural state. The property to the west of the project area boundary consists of undeveloped land in its natural state with several graded dirt roads. The property to the south of the property boundary consists of undeveloped land in its natural state. The property located immediately adjacent to the east property boundary is a developed state roadway (NM 128).

The post-development condition of the property will be a new industrial type development defined as a proposed surface waste treatment facility. The facility will utilize the entire parcel, and will consist of a fenced, cleared and leveled area with caliche surface cover allowing for access and maneuvering of large trucks and equipment. The caliche surface cover is assumed to be similar to natural desert landcover. Impervious area is anticipated in the form of three tank batteries will be located on the facility for processing as well as a small office area and bathroom area. The tank batteries are held within secondary containment areas made up of steel walls and 40-MIL HDPE liner. All off-site basins will remain in their existing conditions with minor changes to exterior flow path routing once the storm water reaches the project site berm. See Appendix S.C.P.3 for Land Use and Weighted CN calculations.

Based on the above outlined land uses and the Hydraulic Soils Class percentage within each basin, the composite curve numbers for the run-on and run-off basins are as follows:

Run-On Basin Composite Curve Numbers							
Basin	Total Area (acres)	Land Cover Description: (acres)					Composite CN
		Natural	Impervious	Desert Landscape	Lawn Landscape	Cleared	
Run-On	470.17	470.17	0.00	0.00	0.00	0.00	68

Run-Off Basin Composite Curve Numbers							
Basin	Total Area (acres)	Land Cover Description: (acres)					Composite CN
		Natural	Impervious	Desert Landscape	Lawn Landscape	Cleared	
Run-Off	5.40	4.73	0.67	0.00	0.00	0.00	83

7.0 HYDROLOGY

7.1 Regional Surface Water Hydrology

Surface water resources within the PPA are managed by the New Mexico Office of the State Engineer (NMOSE) as part of the Southern High Plains Region. Surface water is extremely limited in the region, and communities near the facility, including Eunice and Jal, rely exclusively on groundwater for their public water systems. No mapped perennial streams are located in the vicinity of the proposed Facility; the Pecos River located 30 miles to the west near Carlsbad represents the most significant surface water resource in the area.

Based on the site characteristics, soil characteristics and land descriptions detailed in the previous sections, the following hydrologic parameters for the contributing drainage basins were analyzed. The estimated peak rainfall discharge rates were obtained for the run-on and run-off basins for the facility.

7.2 Storm Water Discharge Calculations

In order to establish the storm water discharge rates and volumes for the 25-year storm frequency event determination of weighted curve numbers was required. Based on the various physical characteristics detailed in the previous sections, weighted curve numbers for each contributory drainage area were identified and are summarized in Appendix S.C.P.3. Run-On and Run-Off analyses, including watershed model schematics, hydrographs, and hydrograph summary reports containing project specific hydrologic data are included in Appendix S.C.P.4.

The hydrologic data will be used to size the storm water retention ponds if applicable and the earthen berm surrounding the facility site. The calculations for this analysis were computed using Hydraflow Hydrographs Extension for Autodesk Civil 3D, Version 2025 by Autodesk, Inc.

The input values for the hydrograph calculations in Appendix S.C.P.4 were determined with the following input data:

- Based on NMAC 19.15.36, a 25-year, 24-hour rainfall event was considered for design of the proposed facility. The 25-year, 24-hour precipitation was determined from the NOAA web site. The chart titled “Point Precipitation Frequency Estimates” outlines the anticipated precipitation for this specific location and can be found in Appendix S.C.P.3. The normal annual precipitation and average annual temperature were determined by contacting the local NRCS office.

- Time of concentration (Tc) values were determined from the TR-55 Method within the hydrograph software and are contained in Appendix S.C.P.4.

- It was determined that the facility, based on site location, would fall into the Type II rainfall distribution as published by the NRCS. The Type II rainfall distribution was available with the TR-55 Method of the Hydraflow Hydrographs extension.

- The stormwater routing model is based on the Soil Conservation Service (SCS) methodology.

7.2.1 Runoff Curve Numbers

From the hydrologic soils types listed in Section 3 and the Runoff Curve Numbers found in Tables 2-2a and 2-2d of the Technical Release 55, "Urban Hydrology for Small Watersheds", the following table includes a summary of the runoff curve numbers used in this report. Weighted runoff curve numbers based on these values are calculated in data sheets in Appendix S.C.P.3 and summarized in tabular form in Section 6.2.

Curve Number - Soil Type Summary				
Land Use Cover	*Hydrologic Soils Class A*	Hydrologic Soils Class B	Hydrologic Soils Class C	Hydrologic Soils Class D
Natural Cover	*63*	77	85	88
Impervious	*98*	98	98	98
Cleared Desert Land Areas	*77*	86	91	94
Gravel Area	*76*	85	89	91
Desert Landscape Areas	*63*	77	85	88

Values listed above represent land uses typically found in the southwestern United States for both pre-development and post-development conditions. Not all values were used for this report.

7.3 25-Year Storm Frequency Event Calculations

7.3.1 Run-On

The table listed below outlines the hydrologic summary of the run-on basin calculations for the 25-year storm frequency event. The data includes basin identification, the total area in acres, the calculated time of concentration, the hydraulic basin length which is also known as the longest flow path, and the weighted CN. Based on these characteristics the volume and peak discharge for the basin were identified.

Run-On Basin Conditions – 25-Year Event						
Basin	Area	Tc	Hydraulic Basin Length	Weighted CN	Volume	Peak Discharge
	(acre)	(min)	(ft)		(ft^3)	(ft^3/sec)
Run-On	470.17	209.0	11,678	68	2,314,063	125.94

7.3.2 Run-Off

The table listed below outlines the hydrologic summary of the run-off basin calculations for the 25-year storm frequency event. The data includes basin identification, the total area in acres, the calculated time of concentration, the hydraulic basin length which is also known as the longest flow path, and the weighted CN. Based on these characteristics the volume and peak discharge for the basin were identified.

Run-Off Basin Conditions – 25-Year Event						
Basin	Area	Tc	Hydraulic Basin Length	Weighted CN	Volume	Peak Discharge
	(acre)	(min)	(ft)		(ft^3)	(ft^3/sec)
Run-Off	5.40	26.3	650	83	49,131	13.21

8.0 HYDRAULIC STRUCTURE DESIGN

8.1 Earthen Berms

An earthen berm is anticipated for the final facility buildout. The earthen berm is intended to facilitate the redirection of stormwater from the run-on basin located northwest of the facility around the facility to prohibit the stormwater inundation of the tank batteries. Utilizing peak discharge rates as determined by the SCS methodology and presented in section 7.3.1 above, cross section of the existing topography was modeled and a maximum water depth was determined based on a sheet flow assumption along the property line. The western property line was modeled as a user defined section with a Mannings Roughness Coefficient of 0.05, a value typical for natural areas with sparse vegetation. The channel was cross section was cut-off near the north and south property lines with the following Station-Elevation data:

Cross Section Station-Elevation Data			
Point	Station	Elevation	Manning's Roughness Coefficient
1	0.00	1045.00(1)	-
2	0.00	1043.01	0.05
3	71.03	1043.34	0.05
4	97.38	1043.35	0.05
5	131.32	1043.28	0.05
6	195.73	1043.00	0.05
7	258.80	1042.94	0.05
8	310.52	1042.97	0.05
9	341.75	1042.79	0.05
10	400.00	1042.99	0.05
11	465.37	1043.00	0.05
12	531.20	1043.21	0.05
13	584.49	1043.52	0.05
14	656.86	1044.00	0.05
15	784.00	1043.99	0.05
16	826.62	1043.82	0.05
17	868.26	1044.00	0.05
18	881.96	1044.00	0.05
19	881.96	1045.00(1)	0.05

(1) Elevation is inserted as representative cutoff of channel to allow model to run cross section analysis.

Utilizing the calculated maximum flow rate of the run-on basin and the existing topography of the western property line, a maximum water depth of 0.54 ft was determined. The results of the channel analysis are shown in Appendix S.C.P.5. The earthen berm shall be constructed as a two (2) feet tall earthen berm utilizing native soils from the facility. The earthen berm shall be constructed along the northeastern, northern, western and southern boundaries of the facility as shown on the permit drawings in Appendix S.C.P.1. The earthen berm shall be constructed with a six (6) feet wide bottom, one (1) foot wide top and 1.25:1 side slopes.

8.2 On-Site Detention Ponds

The proposed site is anticipated to be developed with minimal changes to the ground cover. The proposed caliche cover has similar soil characteristics to the native material and as such does not result in changes to the runoff volume when comparing pre-development conditions to post-development conditions. Additionally, impervious area within the facility will be mostly limited to tank batteries which act as self-contained systems. The secondary containment, sized at 120'x80'x3', have been sized to accommodate 28,800 cubic feet of total material each. Utilizing the same procedures as described in section 7.3 above, stormwater volume calculations were completed for each of the secondary containment tanks. Utilizing the type II rainfall distribution, it was determined that a 25-year stormwater event for this area would generate a total of 3,190 cubic feet of stormwater per secondary containment tank. As such, the secondary containment tanks can accommodate +/- 900% of the expected stormwater volume generated during a typical 25-year event. All stormwater generated within the tank batteries will remain with the containment system and shall be inspected for oil/sheen prior to removal. As detailed in the Facility Operation, Maintenance and Inspection Plan, water with a visible sheen will not be discharged to the ground surface and will be transported off-site via tanker truck for disposal as oilfield exempt waste. Secondary containment stormwater volume calculations are provided in Appendix S.C.P.4. All stormwater volume calculations provided are only for adequate sizing of the containment tanks. Stormwater generated within the secondary containment tanks will remain within the tanks, and as such does not effect run-off calculations.

Based on limited changes in ground cover and the containment of all stormwater within the tank batteries secondary containment systems, an on-site detention pond is not anticipated to be required. The site will be developed in such a manner that the easternmost property line on the down slope portion of the lot will not have a berm construction and will allow for the natural flow path of the lot to be maintained.

9.0 CONCLUSIONS AND RECOMMENDATIONS

From the previously outlined analysis, this stormwater control plan details the anticipated hydrology of the facility and its contributing off-site drainage basin. The report as detailed above meets the requirements of NMAC 19.15.36. The design, including the construction of the earthen berm, will have design capacity adequate to divert all run-on stormwater around the facility as well as allow for all run-off stormwater to flow off site.

No excess stormwater is anticipated to be produced by the facility and as such, all downstream infrastructure shall remain unimpacted by the development.

10.0 LIMITATIONS

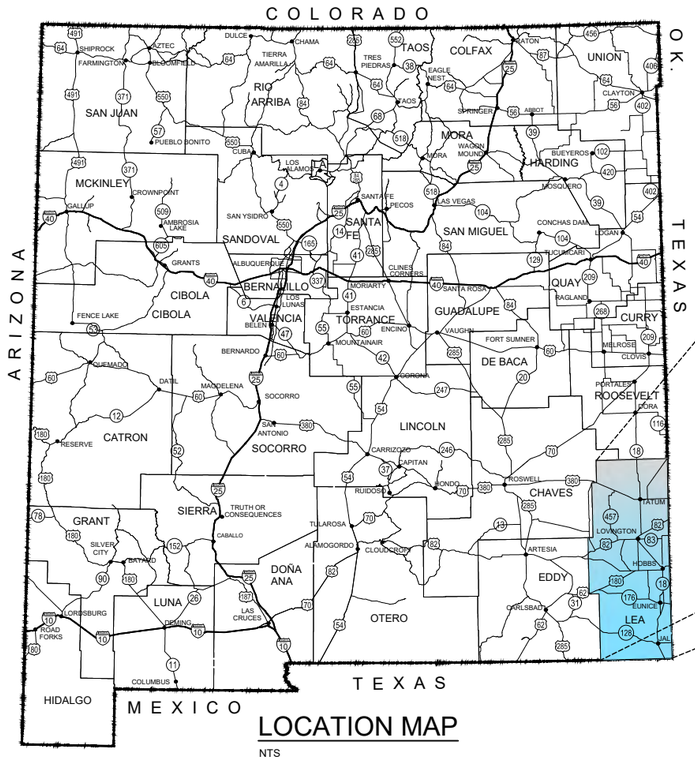
For the purposes of this stormwater control plan it is important to note that no additional storm water flow or volume is proposed to exit the property.

APPENDIX S.C.P.1

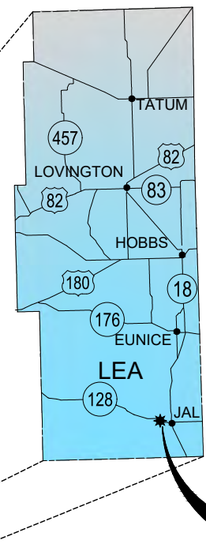
PROJECT PERMIT PLANS

MOONSHINE ENERGY
BIG STILL FACILITY
C137 OIL TREATMENT PERMITTING
LEA COUNTY, NEW MEXICO
January 2025

PROJECT DESCRIPTION:
DESIGN PLANSET FOR A PROPOSED OIL TREATMENT FACILITY TO ALLOW FOR PROCESSING OF TANK BOTTOMS, PRODUCED WATER, OR OTHER HYDROCARBONS FROM OIL AND GAS OPERATIONS TO SEPARATE USABLE HYDROCARBON MATERIAL FOR SALE AND REFINEMENT.

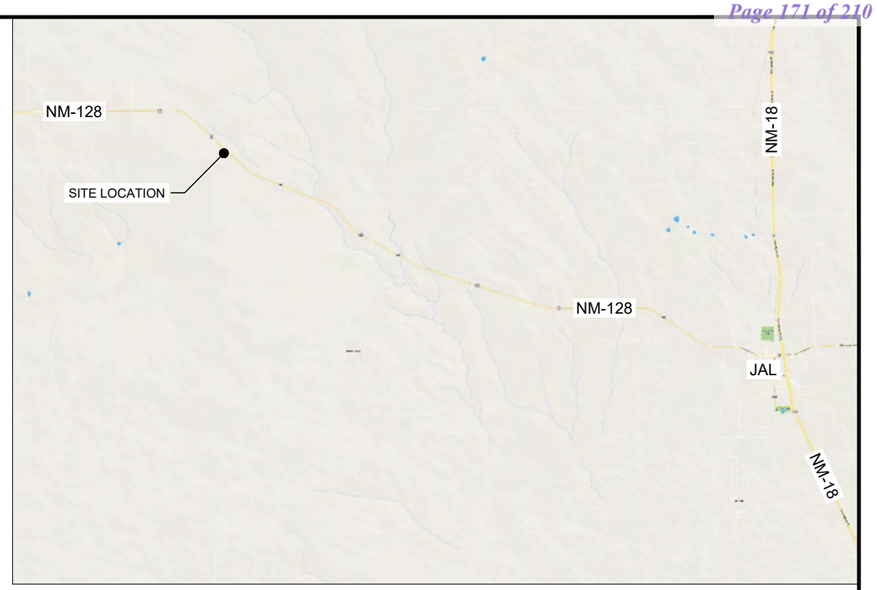


LOCATION MAP
NTS



PROJECT LOCATION
NTS

VICINITY MAP
NTS



PROJECT LOCATION MAP
1" = 20,000'

DRAWING INDEX

SHEET NO.	SHEET TITLE
G-1	COVER SHEET AND DRAWING INDEX
C-1	EXISTING SITE PLAN
C-2	SITE PLAN
C-3	SITE GRADING PLAN
DT-1	FRAC TANK CONTAINMENT DIAGRAM
DT-2	S.W.T.B CONTAINMENT DIAGRAM AND BERM DETAIL

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION ON BEHALF OF SOUDER, MILLER & ASSOCIATES.

STEPHANIE HINDS, P.E. — 4-18-25
PROJECT MANAGER — DATE

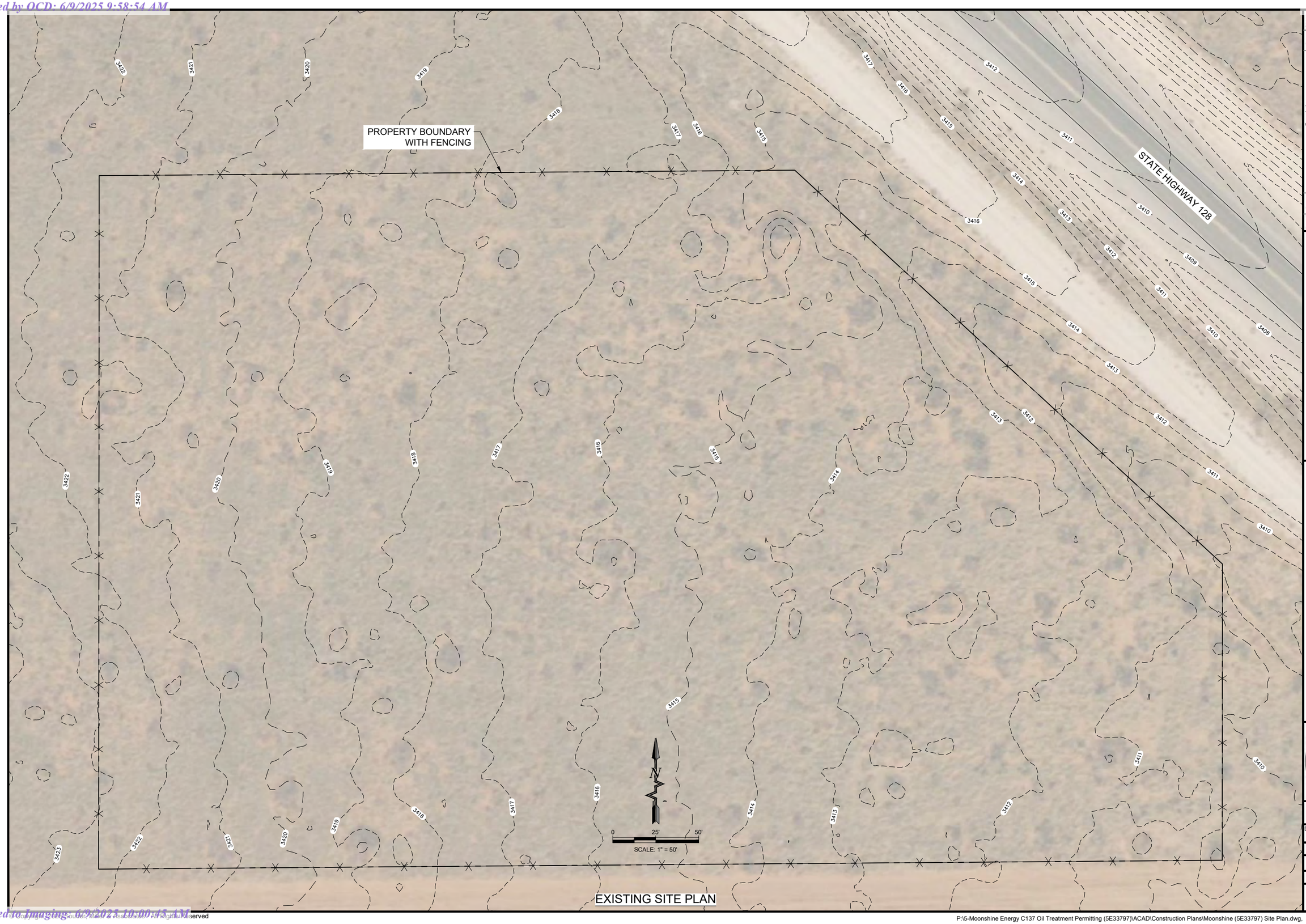
THE SEAL AND SIGNATURE OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET DOES NOT SUGGEST RESPONSIBLE CHARGE FOR ALL SHEETS CONTAINED WITHIN THIS PACKAGE; PLAN SHEETS NOT SIGNED AND SEALED ARE NOT THE RESPONSIBILITY OF THE PROFESSIONAL REGISTRANT IDENTIFIED ON THIS COVER SHEET. PLEASE REFER TO PROFESSIONAL REGISTRANTS IDENTIFIED ON INDIVIDUAL PLAN SHEETS.

STEPHANIE A. HINDS — NEW MEXICO — 27510 — PROFESSIONAL ENGINEER

Rev #	Date	Description	By	Chk'd

SOUDER, MILLER & ASSOCIATES
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
www.soudermiller.com
Serving the Southwest & Rocky Mountains
Albuquerque, Carlsbad, Farmington, Hobbs, Las Cruces, Roswell, Santa Fe, NM
Cortez, Denver, Grand Junction, CO - Safford, AZ - El Paso, TX - Moab, UT

811 Know what's below. Call before you dig.



EXISTING SITE PLAN

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
www.soudermiller.com

VICINITY OF JAL, NEW MEXICO

MOONSHINE ENERGY

BIG STILL FACILITY
C137 OIL TREATMENT PERMITTING
LEA COUNTY, NEW MEXICO
EXISTING SITE PLAN

STEPHANIE A. HINDS
NEW MEXICO
27510
PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
SH	AAV	SAM

Date: January 2025

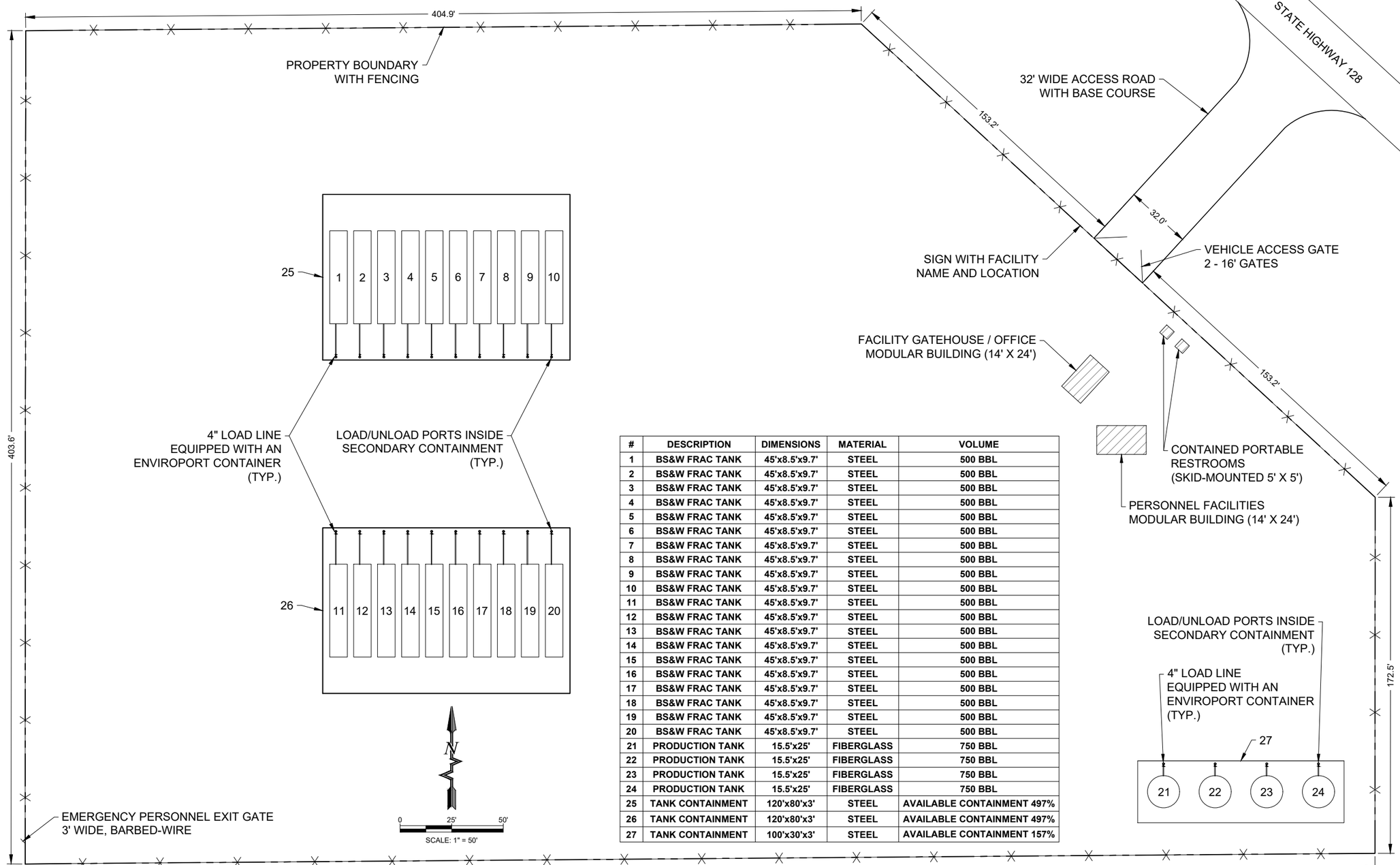
Scale: Horiz: 1" = 50'
Vert:

Project No: 5E3797

Sheet: C-1

GENERAL NOTES AND RECOMMENDATIONS:
1. OWNER/OPERATOR SHALL MEET THE REQUIREMENT OF 40 CFR 112 REGULATIONS FOR OIL POLLUTION PREVENTION.
2. INSTALL VISIBLE WARNING SIGN IN THE DESIGNATED LOADING/UNLOADING AREA INSTRUCTING THE DRIVERS TO FULLY DISCONNECT PRIOR TO DEPARTURE.
3. ALL OIL STORAGE EQUIPMENT SHALL BE COMPATIBLE WITH CONTENTS STORED AND MEET APPLICABLE UL-142 STANDARDS, NFPA-30, 2-3, 3.3 STANDARDS, AND STI CONSTRUCTION STANDARDS.
4. ABOVE-GROUND PIPING: PROPERLY DESIGN PIPE SUPPORTS TO MINIMIZE ABRASION AND CORROSION AND ALLOW FOR EXPANSION AND CONTRACTION.
5. TRANSFER VALVES ARE TO REMAIN CLOSED (AND PREFERABLY LOCKED) WHEN NOT IN USE.TANKS SHOULD HAVE SOME FORM OF LEVEL INDICATOR AND OVERFILL PREVENTION/ALARM.
6. TANKS SHOULD BE GROUNDED.
7. RAINWATER COLLECTED IN THE SECONDARY CONTAINMENT SHALL BE INSPECTED FOR OIL/ SHEEN PRIOR TO REMOVAL. REMOVAL CAN BE BY PUMP TRUCK, EVAPORATION, OR DRAIN VALVE. IF DRAIN VALVE IS PRESENT, VALVE IS TO REMAIN CLOSED AND LOCKED UNLESS IN USE.

ASSUMPTION:
1. TANKS ARE NOT MANIFOLDED.
2. FRAC TANK BATTERIES ASSUME ELEVATED TANKS IN WHICH 1/2 VOLUME OF TANK OCCUPIES SECONDARY CONTAINMENT SPACE. BASED UPON ASSUMPTIONS, THE CURRENT SECONDARY CONTAINMENT VOLUME = 497%.
3. SEPARATED WATER BATTERIES, THE CURRENT SECONDARY CONTAINMENT VOLUME = 157%.



#	DESCRIPTION	DIMENSIONS	MATERIAL	VOLUME
1	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
2	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
3	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
4	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
5	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
6	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
7	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
8	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
9	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
10	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
11	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
12	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
13	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
14	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
15	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
16	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
17	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
18	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
19	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
20	BS&W FRAC TANK	45'x8.5'x9.7'	STEEL	500 BBL
21	PRODUCTION TANK	15.5'x25'	FIBERGLASS	750 BBL
22	PRODUCTION TANK	15.5'x25'	FIBERGLASS	750 BBL
23	PRODUCTION TANK	15.5'x25'	FIBERGLASS	750 BBL
24	PRODUCTION TANK	15.5'x25'	FIBERGLASS	750 BBL
25	TANK CONTAINMENT	120'x80'x3'	STEEL	AVAILABLE CONTAINMENT 497%
26	TANK CONTAINMENT	120'x80'x3'	STEEL	AVAILABLE CONTAINMENT 497%
27	TANK CONTAINMENT	100'x30'x3'	STEEL	AVAILABLE CONTAINMENT 157%

SITE PLAN

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
www.soudermiller.com

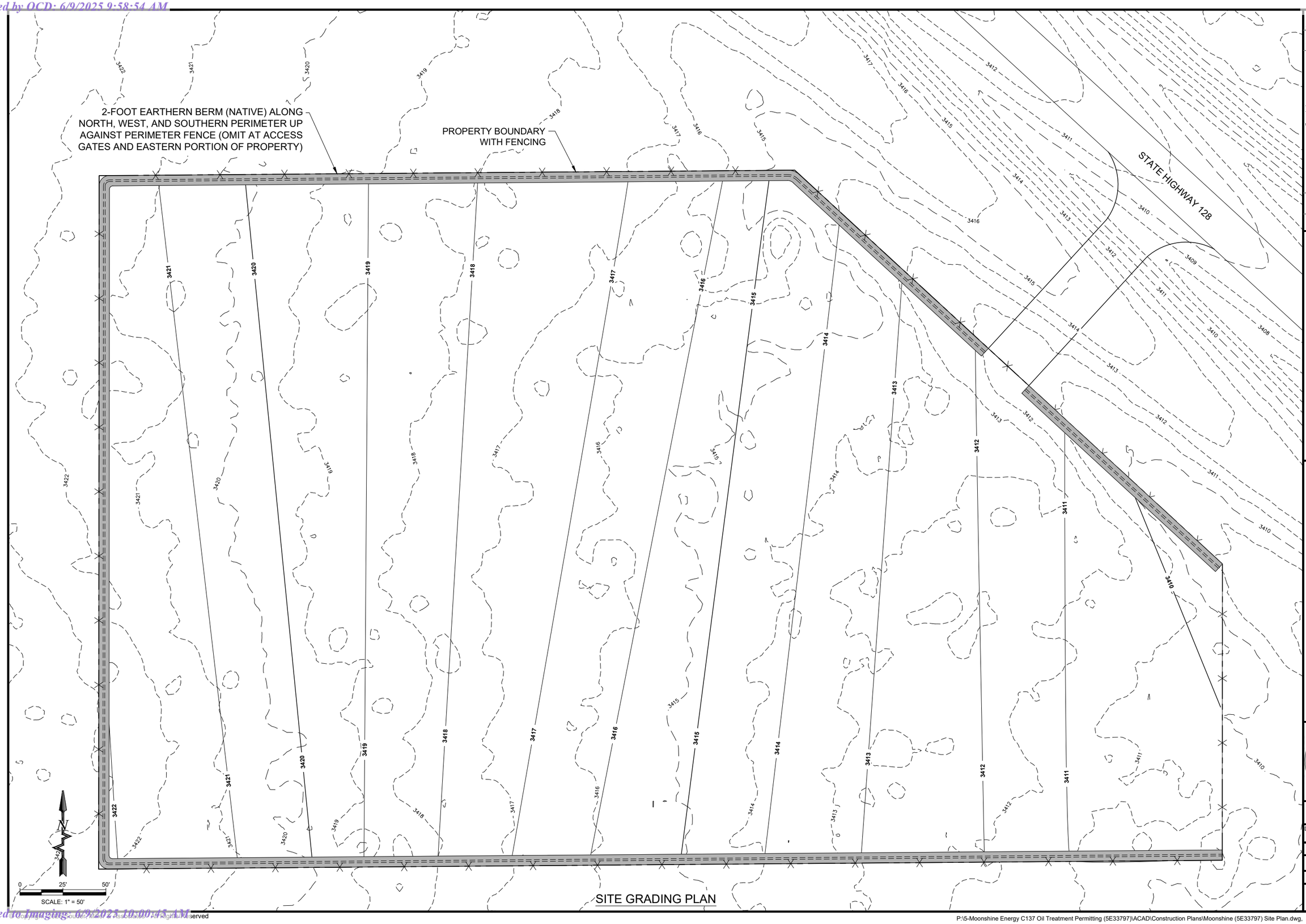
MOONSHINE ENERGY
VICINITY OF JAL, NEW MEXICO
BIG STILL FACILITY
C137 OIL TREATMENT PERMITTING
LEA COUNTY, NEW MEXICO
SITE PLAN

STEPHANIE A. HINDS
NEW MEXICO
27510
PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
SH	AAV	SAM

Date: April 2025
Scale: Horiz: 1" = 50' Vert:
Project No: 5E33797
Sheet: C-2



SITE GRADING PLAN

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
www.soudermiller.com

MOONSHINE ENERGY

VICINITY OF JAL, NEW MEXICO

BIG STILL FACILITY
C137 OIL TREATMENT PERMITTING
LEA COUNTY, NEW MEXICO
SITE GRADING PLAN

STEPHANIE A. HINDS
NEW MEXICO
27510
PROFESSIONAL ENGINEER
April 16, 2025

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
SH	AAV	SAM

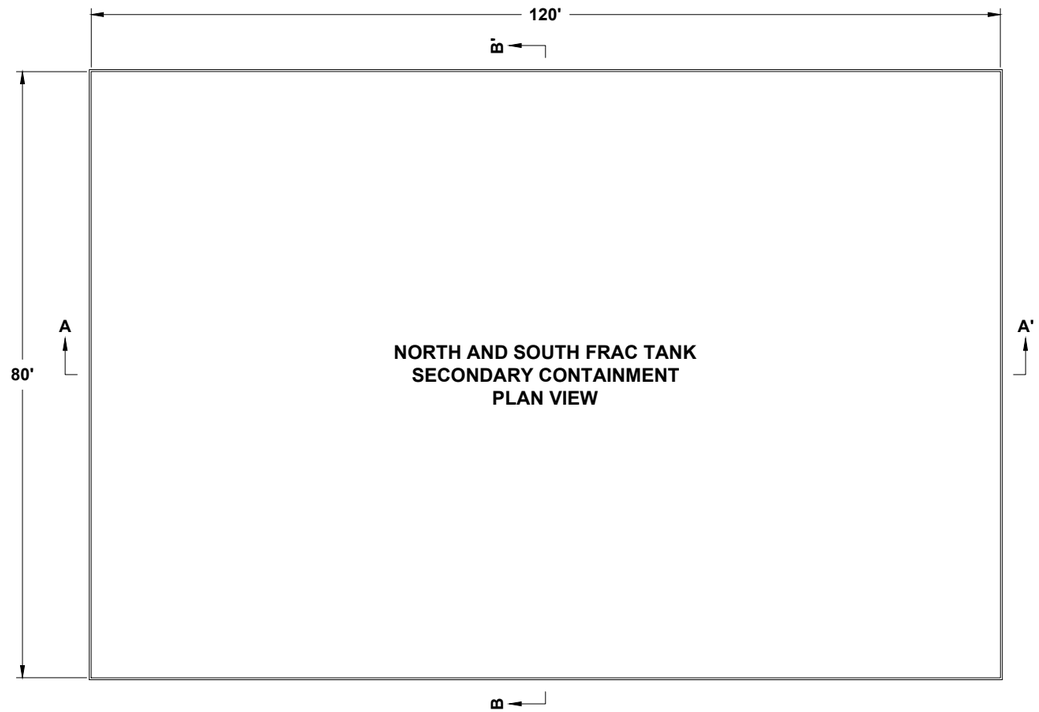
Date: January 2025

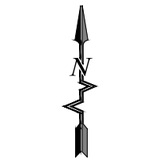
Scale: Horiz: 1" = 50'
Vert:

Project No: 5E3797

Sheet: C-3

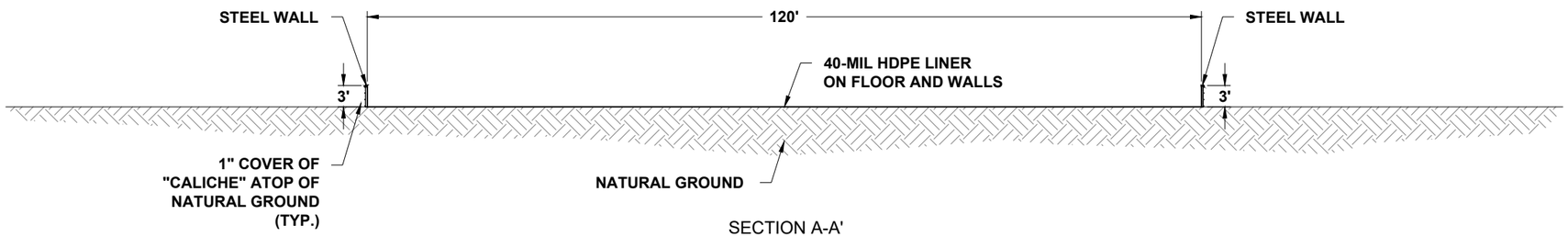
P:\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\ACAD\Construction Plans\Moonshine (5E33797) Site Plan.dwg, 1/8/2025 10:53:59 AM AAV





0 10' 20'

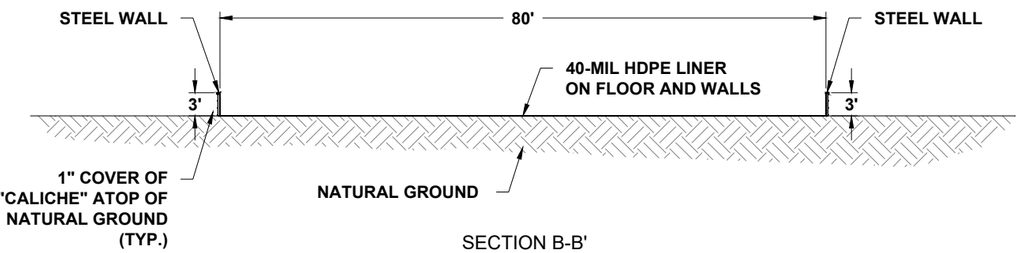
SCALE: 1" = 20'



SECTION A-A'

0 10' 20'

SCALE: 1" = 20'



SECTION B-B'

0 10' 20'

SCALE: 1" = 20'

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
www.soudermiller.com

VICINITY OF JAL, NEW MEXICO

MOONSHINE ENERGY

BIG STILL FACILITY
C137 OIL TREATMENT PERMITTING
LEA COUNTY, NEW MEXICO
FRAC TANK CONTAINMENT DIAGRAM

STEPHANIE A. HINDS
NEW MEXICO
27510
PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

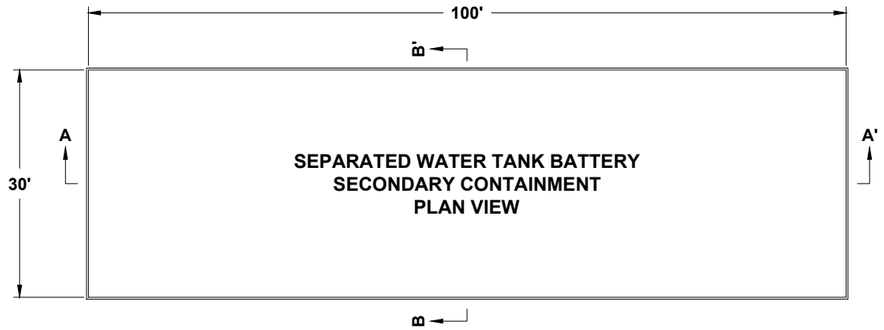
Designed	Drawn	Checked
SH	AAV	SAM

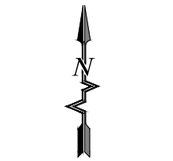
Date: January 2025

Scale: Horiz: 1" = 20'
Vert:

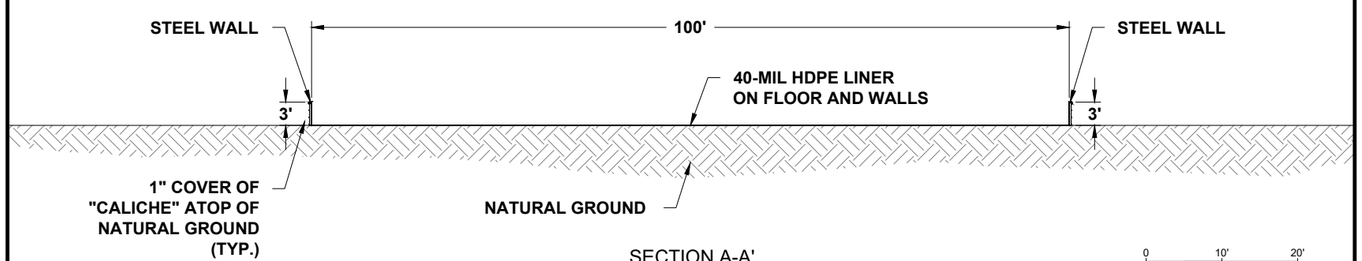
Project No: 5E3797

Sheet: DT-1



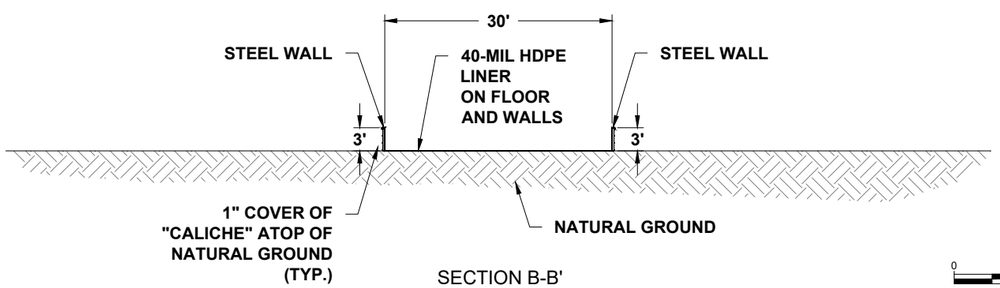


0 10' 20'
SCALE: 1" = 20'



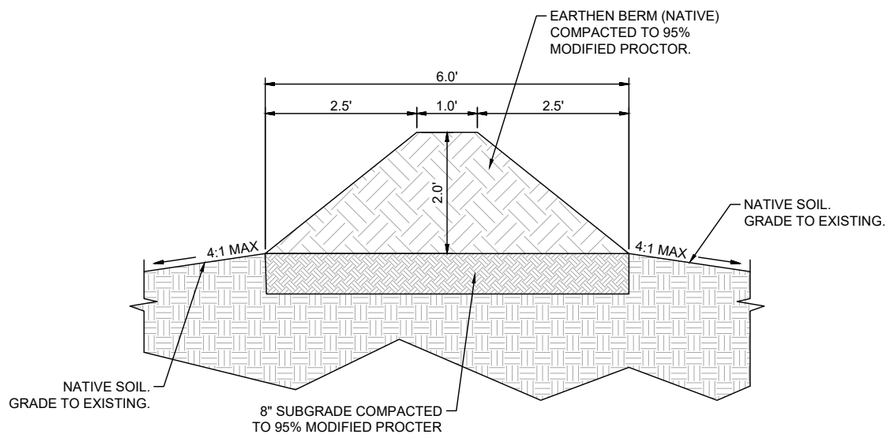
SECTION A-A'

0 10' 20'
SCALE: 1" = 20'



SECTION B-B'

0 10' 20'
SCALE: 1" = 20'



EARTHED BERM DETAIL
NOT TO SCALE

Rev #	Date	Description	By	Chkd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
www.soudermiller.com

VICINITY OF JAL, NEW MEXICO

MOONSHINE ENERGY

BIG STILL FACILITY
C137 OIL TREATMENT PERMITTING
LEA COUNTY, NEW MEXICO

S.W.T.B CONTAINMENT DIAGRAM AND BERM DETAIL

STEPHANIE A. HINDS
NEW MEXICO
27510
PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
SH	AAV	SAM

Date: January 2025

Scale: Horiz: AS SHOWN
Vert:

Project No: 5E3797

Sheet: DT-2

APPENDIX S.C.P.2

FLOOD INSURANCE RATE

MAPS RUN-ON/RUN-OFF BASIN

MAP

National Flood Hazard Layer FIRMette

FEMA

103°25'59"W 32°12'N

103°25'21"W 32°11'30"N

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

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

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

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

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

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

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

OTHER FEATURES
- 20.2 / 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

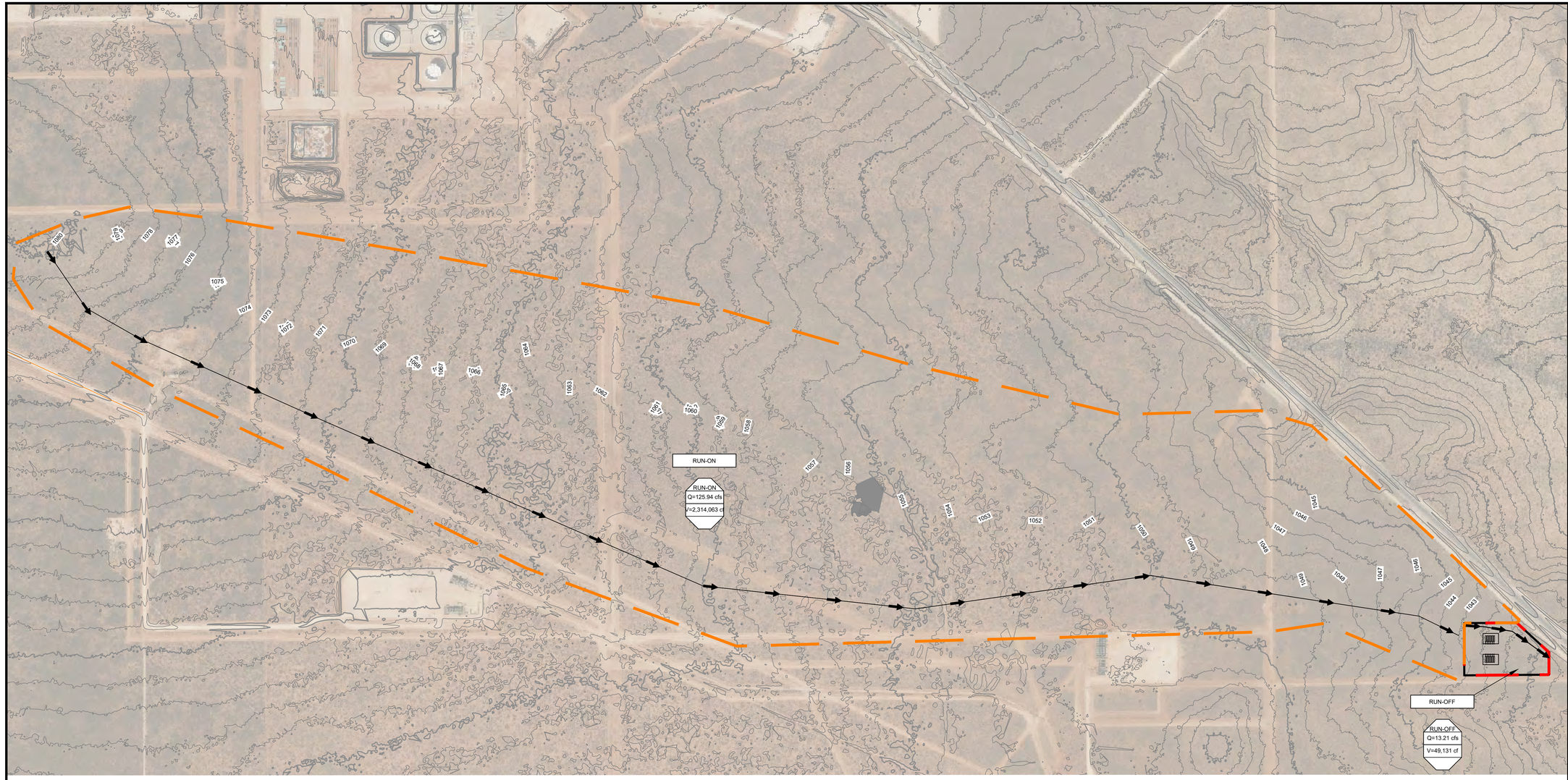
N

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/2/2025 at 10:51 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 unmapped and unmodernized areas cannot be used for regulatory purposes.



BASIN LEGEND

BASIN FLOW POINTS ON MAP

- FLOW ENTERING BASIN

X — *BASIN LABEL*
Q=10 cfs — *Q=25-YEAR FLOW RATE*
V=100 cf — *V=25-YEAR VOLUME*

- FLOW GENERATED WITHIN BASIN

X — *BASIN LABEL*
Q=10 cfs — *Q=25-YEAR FLOW RATE*
V=100 cf — *V=25-YEAR VOLUME*

-FLOW EXITING BASIN

X — *BASIN LABEL*
Q=10 cfs — *Q=25-YEAR FLOW RATE*
V=100 cf — *V=25-YEAR VOLUME*

DIRECTION OF FLOW

ANALYSIS POINT

GENERAL LEGEND

BASIN DESIGNATION	A
RUN-ON BASIN BOUNDARY	
RUN-OFF BASIN BOUNDARY	
PRE-DEVELOPMENT FLOW LINE	
POST-DEVELOPMENT FLOW LINE	
MAJOR CONTOUR (5' INTERVAL)	
MINOR CONTOUR (1' INTERVAL)	

RUN-ON/RUN-OFF BASIN MAP

SCALE: NTS

Rev #	Date	Description	By	Chk'd

SOUDER, MILLER & ASSOCIATES
Engineering • Environmental • Geomatics
Serving the Southwest & Rocky Mountains
5454 Venice Avenue NE, Suite D
Albuquerque, NM 87113
Phone (505) 299-0942 Fax (505) 293-3430
www.soudermiller.com

VICINITY OF JAL, NEW MEXICO

MOONSHINE ENERGY

BIG STILL FACILITY
C137 OIL TREATMENT PERMITTING
LEA COUNTY, NEW MEXICO
RUN-ON/RUN-OFF BASIN MAP

MICHAEL D. JOHNSON
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

Designed	Drawn	Checked
MJ	BCO	MJ

Date: January 2025

Scale: NTS

Project No: 5E3797

Sheet:

\\192.168.4.10\Projects\5-Moonshine Energy C137 Oil Treatment Permitting (5E33797)\ACAD\Drainage Exhibits\5E33797 - Basin Maps.dwg, 1/9/2025 1:48:26 PM BCO

APPENDIX S.C.P.3

POINT PRECIPITATION FREQUENCY ESTIMATES

RUNOFF CURVE NUMBER TABLES

MANNING'S ROUGHNESS COEEFICIENTS REFERENCE DOCUMENTS

CUSTOM SOIL RESOURCE REPORT SOIL MAP

LAND USE SUMMARY AND WEIGHTED CN CALCULATIONS

NOAA Atlas 14, Volume 1, Version 5
Location name: Jal, New Mexico, USA*
Latitude: 32.1954°, Longitude: -103.427°
Elevation: 3416 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.308 (0.274-0.347)	0.398 (0.355-0.449)	0.531 (0.471-0.597)	0.634 (0.560-0.710)	0.773 (0.680-0.866)	0.882 (0.771-0.986)	0.996 (0.866-1.11)	1.11 (0.962-1.24)	1.27 (1.09-1.42)	1.40 (1.19-1.57)
10-min	0.469 (0.418-0.528)	0.606 (0.540-0.683)	0.809 (0.717-0.908)	0.965 (0.853-1.08)	1.18 (1.04-1.32)	1.34 (1.17-1.50)	1.52 (1.32-1.69)	1.69 (1.46-1.89)	1.94 (1.66-2.17)	2.13 (1.81-2.39)
15-min	0.582 (0.518-0.655)	0.752 (0.669-0.847)	1.00 (0.889-1.13)	1.20 (1.06-1.34)	1.46 (1.28-1.63)	1.66 (1.45-1.86)	1.88 (1.63-2.10)	2.10 (1.82-2.35)	2.40 (2.06-2.69)	2.64 (2.24-2.96)
30-min	0.784 (0.697-0.882)	1.01 (0.901-1.14)	1.35 (1.20-1.52)	1.61 (1.42-1.80)	1.96 (1.73-2.20)	2.24 (1.96-2.51)	2.53 (2.20-2.83)	2.83 (2.44-3.16)	3.24 (2.77-3.62)	3.56 (3.02-3.98)
60-min	0.970 (0.863-1.09)	1.25 (1.12-1.41)	1.67 (1.48-1.88)	1.99 (1.76-2.23)	2.43 (2.14-2.72)	2.77 (2.42-3.10)	3.13 (2.72-3.50)	3.50 (3.03-3.91)	4.01 (3.43-4.48)	4.40 (3.74-4.93)
2-hr	1.13 (1.01-1.28)	1.47 (1.30-1.66)	1.99 (1.76-2.24)	2.40 (2.12-2.70)	2.97 (2.61-3.33)	3.43 (2.99-3.84)	3.92 (3.40-4.38)	4.43 (3.81-4.95)	5.15 (4.38-5.76)	5.73 (4.83-6.42)
3-hr	1.20 (1.06-1.35)	1.55 (1.38-1.75)	2.08 (1.84-2.34)	2.51 (2.21-2.82)	3.11 (2.73-3.48)	3.60 (3.13-4.02)	4.11 (3.56-4.60)	4.66 (4.00-5.21)	5.43 (4.60-6.09)	6.06 (5.08-6.81)
6-hr	1.36 (1.21-1.54)	1.75 (1.56-1.98)	2.34 (2.08-2.63)	2.81 (2.49-3.15)	3.48 (3.06-3.90)	4.03 (3.52-4.50)	4.61 (4.00-5.15)	5.24 (4.50-5.85)	6.12 (5.20-6.85)	6.85 (5.75-7.67)
12-hr	1.53 (1.36-1.72)	1.96 (1.75-2.21)	2.60 (2.31-2.93)	3.12 (2.77-3.51)	3.86 (3.39-4.32)	4.46 (3.89-4.99)	5.10 (4.42-5.70)	5.78 (4.96-6.45)	6.75 (5.72-7.54)	7.54 (6.32-8.44)
24-hr	1.61 (1.44-1.81)	2.07 (1.85-2.34)	2.79 (2.49-3.15)	3.38 (3.00-3.80)	4.23 (3.73-4.75)	4.93 (4.31-5.52)	5.68 (4.93-6.36)	6.50 (5.58-7.29)	7.67 (6.48-8.66)	8.64 (7.19-9.79)
2-day	1.71 (1.54-1.95)	2.21 (1.98-2.52)	2.98 (2.65-3.39)	3.62 (3.20-4.10)	4.54 (3.97-5.13)	5.29 (4.61-6.00)	6.12 (5.26-6.94)	7.02 (5.95-7.98)	8.32 (6.91-9.53)	9.40 (7.69-10.9)
3-day	1.78 (1.58-2.03)	2.29 (2.03-2.63)	3.12 (2.74-3.56)	3.80 (3.33-4.33)	4.79 (4.16-5.46)	5.63 (4.84-6.42)	6.55 (5.56-7.49)	7.56 (6.34-8.67)	9.03 (7.41-10.4)	10.3 (8.30-12.0)
4-day	1.85 (1.62-2.12)	2.38 (2.09-2.74)	3.25 (2.83-3.73)	3.98 (3.46-4.56)	5.05 (4.35-5.78)	5.96 (5.06-6.85)	6.98 (5.87-8.03)	8.09 (6.72-9.36)	9.74 (7.92-11.4)	11.1 (8.91-13.1)
7-day	2.09 (1.84-2.40)	2.70 (2.38-3.11)	3.71 (3.26-4.26)	4.56 (3.99-5.24)	5.82 (5.04-6.68)	6.90 (5.91-7.93)	8.10 (6.85-9.36)	9.42 (7.86-10.9)	11.4 (9.30-13.3)	13.1 (10.5-15.4)
10-day	2.30 (2.04-2.62)	2.97 (2.64-3.39)	4.08 (3.61-4.67)	5.02 (4.43-5.74)	6.42 (5.61-7.32)	7.62 (6.57-8.68)	8.96 (7.62-10.2)	10.5 (8.74-12.0)	12.7 (10.3-14.6)	14.6 (11.7-16.9)
20-day	2.81 (2.52-3.16)	3.62 (3.24-4.07)	4.86 (4.35-5.46)	5.87 (5.23-6.58)	7.32 (6.48-8.20)	8.51 (7.48-9.55)	9.80 (8.52-11.0)	11.2 (9.59-12.6)	13.2 (11.1-14.9)	15.0 (12.4-17.1)
30-day	3.28 (2.95-3.69)	4.21 (3.78-4.74)	5.60 (5.01-6.30)	6.72 (5.99-7.56)	8.31 (7.37-9.36)	9.61 (8.46-10.8)	11.0 (9.59-12.4)	12.5 (10.7-14.1)	14.6 (12.3-16.6)	16.3 (13.6-18.7)
45-day	3.84 (3.45-4.31)	4.95 (4.44-5.56)	6.62 (5.93-7.42)	7.93 (7.10-8.88)	9.78 (8.69-11.0)	11.3 (9.92-12.6)	12.8 (11.2-14.4)	14.5 (12.5-16.2)	16.8 (14.3-19.0)	18.6 (15.6-21.2)
60-day	4.39 (3.95-4.90)	5.65 (5.08-6.31)	7.47 (6.71-8.33)	8.88 (7.97-9.90)	10.8 (9.65-12.1)	12.3 (10.9-13.7)	13.9 (12.2-15.5)	15.5 (13.5-17.3)	17.7 (15.2-20.0)	19.4 (16.5-22.1)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

Back to Top

PF graphical

Table 2-2a Runoff curve numbers for urban areas [1/]

Cover description: Cover type and hydrologic condition	Average percent impervious area [2/]	Curve numbers for hydrologic soil group: A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.) [3/]:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved; open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) [4/]		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
2 acres	12	46	65	77	82
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation) [5/]		77	86	91	94
Idle lands (CN's are determined using cover types similar to those in table 2-2c).					

[1] Average runoff condition, and $I_a = 0.2S$.

[2] The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 2-3 or 2-4.

[3] CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

[4] Composite CN's for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

[5] Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

Table 2-2b Runoff curve numbers for cultivated agricultural lands [1/]

Cover description			Curve numbers for hydrologic soil group			
Cover type	Treatment [2/]	Hydrologic condition [3/]	A	B	C	D
Fallow	Bare soil	—	77	86	91	94
	Crop residue cover (CR)	Poor	76	85	90	93
		Good	74	83	88	90
Row crops	Straight row (SR)	Poor	72	81	88	91
		Good	67	78	85	89
	SR + CR	Poor	71	80	87	90
		Good	64	75	82	85
	Contoured (C)	Poor	70	79	84	88
		Good	65	75	82	86
	C + CR	Poor	69	78	83	87
		Good	64	74	81	85
	Contoured & terraced (C&T)	Poor	66	74	80	82
		Good	62	71	78	81
	C&T+ CR	Poor	65	73	79	81
		Good	61	70	77	80
Small grain	SR	Poor	65	76	84	88
		Good	63	75	83	87
	SR + CR	Poor	64	75	83	86
		Good	60	72	80	84
	C	Poor	63	74	82	85
		Good	61	73	81	84
	C + CR	Poor	62	73	81	84
		Good	60	72	80	83
	C&T	Poor	61	72	79	82
		Good	59	70	78	81
	C&T+ CR	Poor	60	71	78	81
		Good	58	69	77	80
Close-seeded or broadcast legumes or rotation meadow	SR	Poor	66	77	85	89
		Good	58	72	81	85
	C	Poor	64	75	83	85
		Good	55	69	78	83
	C&T	Poor	63	73	80	83
		Good	51	67	76	80

[1] Average runoff condition, and I_a=0.2S

[2] Crop residue cover applies only if residue is on at least 5% of the surface throughout the year.

[3] Hydraulic condition is based on combination factors that affect infiltration and runoff, including (a) density and canopy of vegetative areas, (b) amount of year-round cover, (c) amount of grass or close-seeded legumes, (d) percent of residue cover on the land surface (good ≥ 20%), and (e) degree of surface roughness.

Poor: Factors impair infiltration and tend to increase runoff.

Good: Factors encourage average and better than average infiltration and tend to decrease runoff.

Table 2-2c Runoff curve numbers for other agricultural lands [1/]

Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition	A	B	C	D
Pasture, grassland, or range—continuous forage for grazing. [2/]	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow—continuous grass, protected from grazing and generally mowed for hay.	—	30	58	71	78
Brush—brush-weed-grass mixture with brush the major element. [3/]	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30 [4/]	48	65	73
Woods—grass combination (orchard or tree farm). [5/]	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods. [6/]	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30 [4/]	55	70	77
Farmsteads—buildings, lanes, driveways, and surrounding lots.	—	59	74	82	86

1 Average runoff condition, and $I_a = 0.2S$.

2 *Poor:* <50%) ground cover or heavily grazed with no mulch.
Fair: 50 to 75% ground cover and not heavily grazed.
Good: > 75% ground cover and lightly or only occasionally grazed.

3 *Poor:* <50% ground cover.
Fair: 50 to 75% ground cover.
Good: >75% ground cover.

4 Actual curve number is less than 30; use CN = 30 for runoff computations.

5 CN's shown were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CN's for woods and pasture.

6 *Poor:* Forest litter, small trees, and brush are destroyed by heavy grazing or regular burning.
Fair: Woods are grazed but not burned, and some forest litter covers the soil.
Good: Woods are protected from grazing, and litter and brush adequately cover the soil.

Table 2-2d Runoff curve numbers for arid and semiarid rangelands [1/]

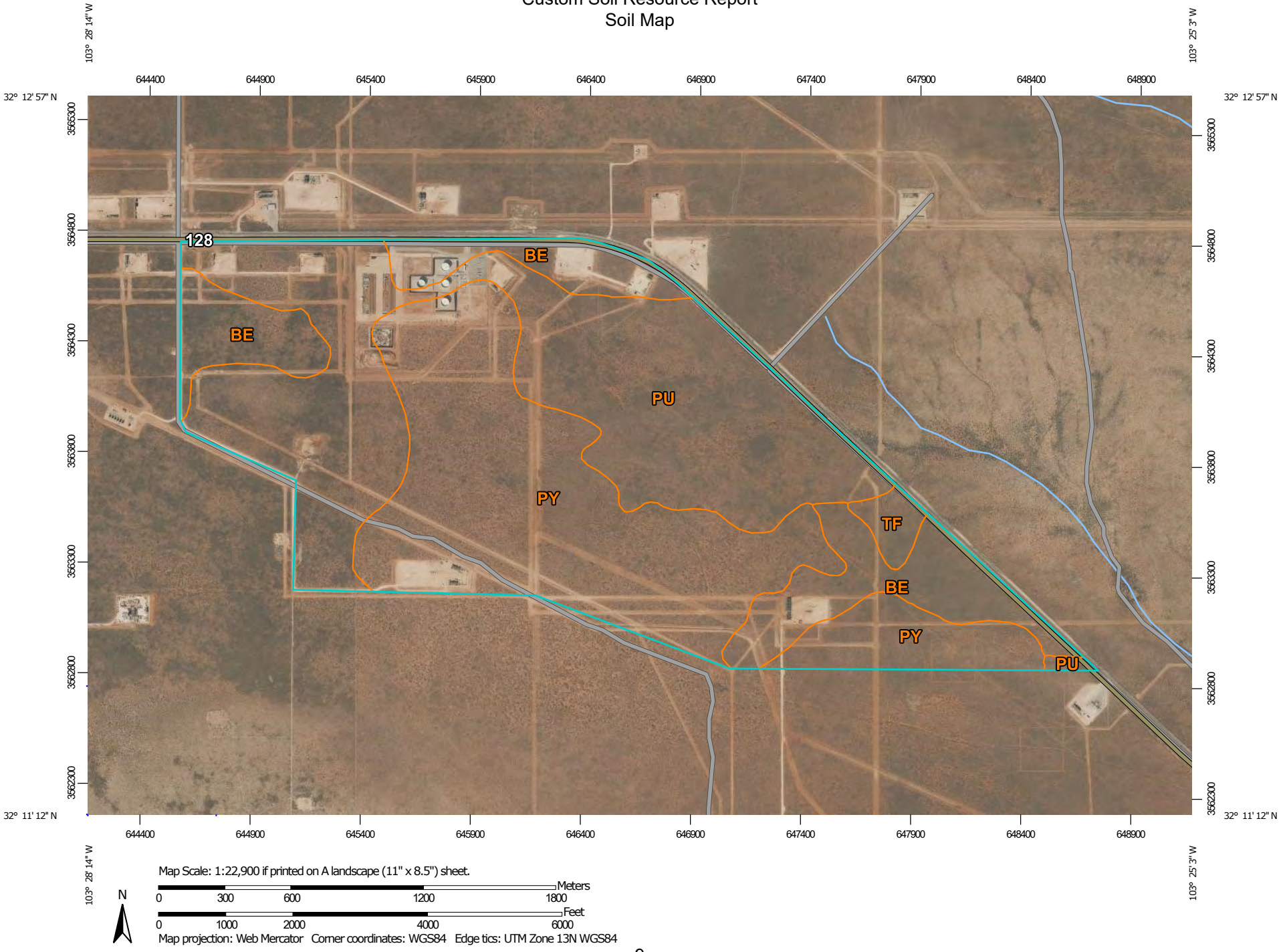
Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition [2/]	A [3/]	B	C	D
Herbaceous—mixture of grass, weeds, and low-growing brush, with brush the minor element.	Poor		80	87	93
	Fair		71	81	89
	Good		62	74	85
Oak-aspen—mountain brush mixture of oak brush, aspen, mountain mahogany, bitter brush, maple, and other brush.	Poor		66	74	79
	Fair		48	57	63
	Good		30	41	48
Pinyon-juniper—pinyon, juniper, or both; grass understory.	Poor		75	85	89
	Fair		58	73	80
	Good		41	61	71
Sagebrush with grass understory.	Poor		67	80	85
	Fair		51	63	70
	Good		35	47	55
Desert shrub—major plants include saltbush, greasewood, creosotebush, blackbrush, bursage, palo verde, mesquite, and cactus.	Poor	63	77	85	88
	Fair	55	72	81	86
	Good	49	68	79	84

1 Average runoff condition, and I_a, = 0.2S. For range in humid regions, use table 2-2c.
2 Poor: <30% ground cover (litter, grass, and brush overstory).
Fair: 30 to 70% ground cover.
Good: > 70% ground cover.
3 Curve numbers for group A have been developed only for desert shrub.

Manning's Roughness for Overland Flow	
Land Surface Type	**Manning n**
Urban:	
Concrete, Asphalt, or Gravel	0.005 - 0.015
Average Grass Cover	0.40
Rural Residential (1 - 10 acre lots, maintenance or grazing assumed)	0.40
Urban Residential (maintained lawns assumed, with effects of landscaping, driveways, roofs included in combined value):	
1 - 3 building units/acre	0.30
3 - 10 building units/acre	0.20
> 10 building units/acre	0.15
Commercial/Industrial (effects of landscaping, driveways, roofs included in combined value)	0.11
Grass:	
Average Grass Cover	0.40
Poor Grass Cover, Moderately Rough Surface	0.30 - 0.40
Light Turf	0.20
Dense Turf	0.17 - 0.80
Dense Grass	0.17 - 0.30
Bermuda Grass	0.30 - 0.48
Dense Shrubbery and Forest Litter	0.40
Natural:	
Short Grass Prairie	0.10 - 0.20
Poor Grass Cover, Moderately Rough Surface	0.30 - 0.40
Sparse Vegetation	0.05 - 0.13
Oak Grasslands, Open Grasslands	0.60
Dense Cover of Trees and Bushes	0.80
Rangeland:	
Typical	0.13
No Debris Cover	0.09 - 0.34
20% Debris Cover	0.05 - 0.25
Woods:	
Light Underbrush	0.40
Dense Underbrush	0.80
Rural Residential (1 - 10 acre lots, maintenance or grazing assumed)	0.40
Cultivated Areas:	
Bare Packed Soil (free of stone)	0.10
Fallow (no residue)	0.05
Conventional Tillage:	
No Residue	0.06 - 0.12
With Residue	0.16 - 0.22
Chisel Plow:	
No Residue	0.06 - 0.12
With Residue	0.10 - 0.16
Fall Disking (with residue)	0.30 - 0.50
No Till:	
No Residue Cover	0.04 - 0.10
20 - 40% Residue Cover	0.07 - 0.17
60 - 100% Residue Cover	0.17 - 0.47
Rural Residential (1 - 10 acre lots, maintenance or grazing assumed)	0.40

Sources:
-USACE, 1998, HEC-1 Flood Hydrograph Package User's Manual, Hydrologic Engineering Center, Davis, CA
-Soil Conservation Service, 1986, Urban Hydrology for Small Watersheds, Technical Release 55, U.S. Department of Agriculture, Washington, DC

Custom Soil Resource Report
Soil Map



LAND USE SUMMARY & WEIGHTED CURVE NUMBER CALCULATIONS

PROJECT: Moonshine Energy C137 Oil Treatment
PROJECT#: 5E33797
CLIENT: Moonshine Energy
LAND STATUS: Run-On/Run-Off 1/2/2025

RUNOFF CURVE NUMBERS

Soil Group	Impervious	Natural Cover	Cleared Area	Desert L/S Area	Lawn Cover
A	98	63	77	63	49
B	98	77	86	77	69
C	98	85	91	85	79
D	98	88	94	88	84

LAND USE AREA SUMMARY & WEIGHTED CURVE NUMBER CALCULATIONS

			Impervious		Natural Cover		Cleared Cover		Desert Landscape		Lawn Cover	
Basin	Land Use	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	Acres
Run-On	R/W	0.00	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
	Lots	0.00	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
	Community Development	0.00	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
ACRES	Existing Conditions	470.71	0%	0.0	100%	470.7	0%	0.0	0%	0.0	0%	0.0
470.71	TOTAL	470.71		0.00		470.71		0.00		0.00		0.00

		Impervious		Natural Cover		Cleared Cover		Desert Landscape		Lawn Cover	
HSC	% Area		Acres		Acres		Acres		Acres		Acres
A	68%		0.0		321.9		0.0		0.0		0.0
B	23%		0.0		106.0		0.0		0.0		0.0
C	5%		0.0		24.9		0.0		0.0		0.0
D	4%		0.0		18.0		0.0		0.0		0.0
TOTAL			0.00		470.71		0.00		0.00		0.00
									Weighted CN		**68**

			Impervious		Natural Cover		Cleared Cover		Desert Landscape		Lawn Cover	
Basin	Land Use	Acres	%	Acres	%	Acres	%	Acres	%	Acres	%	Acres
Run-Off	R/W	0.00	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
	Lots	0.00	0%	0.0	0%	0.0	0%	0.0	0%	0.0	0%	0.0
	Community Development	0.67	100%	0.7	0%	0.0	0%	0.0	0%	0.0	0%	0.0
ACRES	Existing Conditions	4.73	0%	0.0	100%	4.73	0%	0.0	0%	0.0	0%	0.0
5.40	TOTAL	5.40		0.67		4.73		0.00		0.00		0.00

		Impervious		Natural Cover		Cleared Cover		Desert Landscape		Lawn Cover	
HSC	% Area		Acres		Acres		Acres		Acres		Acres
A	0%		0.0		0.0		0.0		0.0		0.0
B	56%		0.4		2.65		0.0		0.0		0.0
C	44%		0.3		2.1		0.0		0.0		0.0
D	0%		0.0		0.0		0.0		0.0		0.0
TOTAL			0.67		4.73		0.00		0.00		0.00
									Weighted CN		**83**

APPENDIX S.C.P.4

SCS METHOD RUN-ON ANALYSIS

SCS METHOD RUN-OFF ANALYSIS

SCS METHOD SECONDARY CONTAINMENT TANK ANALYSIS

RUN-ON ANALYSIS

SCHEMATIC MAP

Watershed Model Schematic

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Legend

Hyd.	Origin	Description
1	SCS Runoff	Run-On

RUN-ON ANALYSIS

BASIN HYDROGRAPHS AND TC CALCULATIONS

25-YEAR STORM EVENT

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	125.94	1	848	2,314,063	------	------	------	Run-On

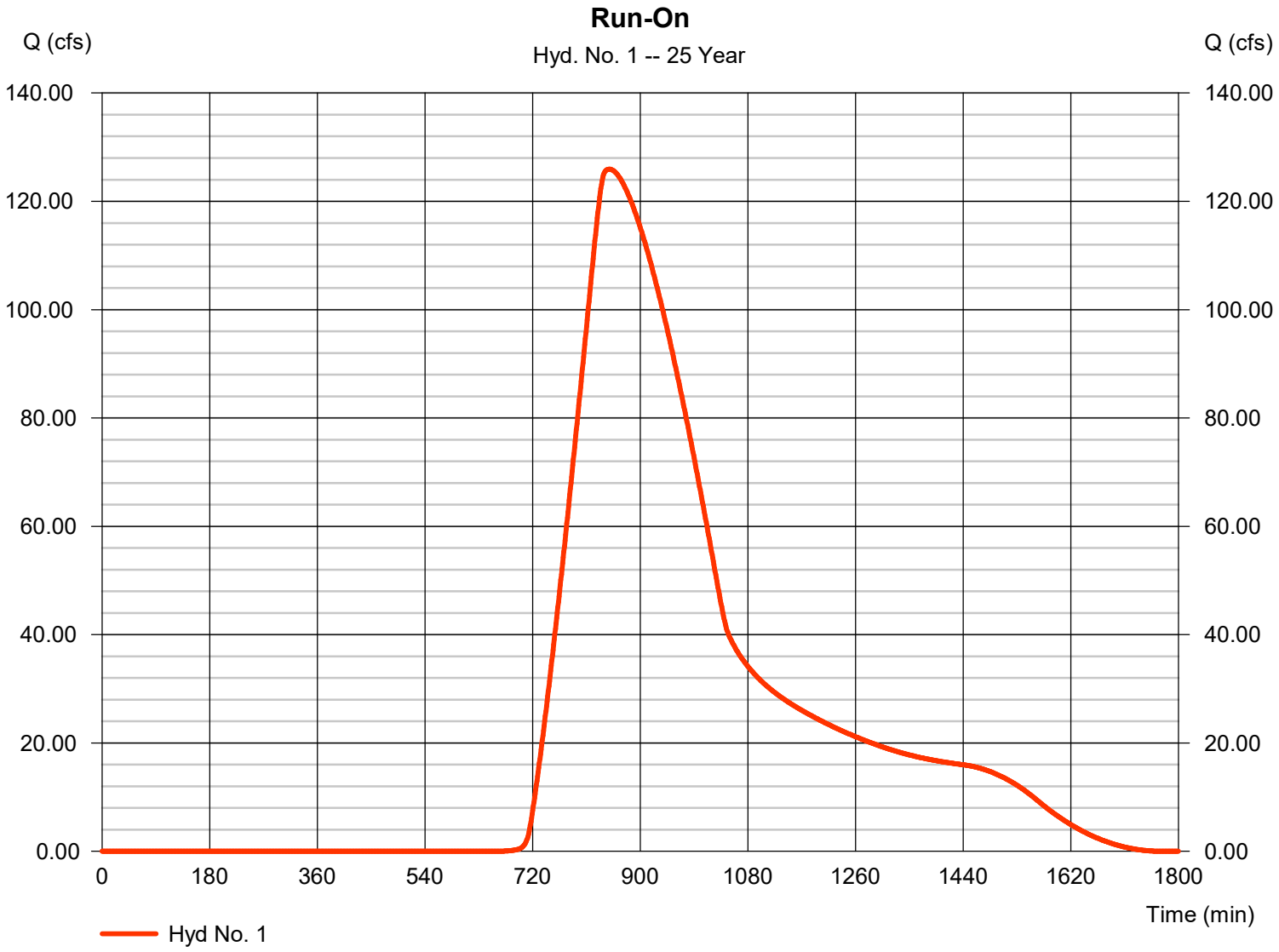
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025 — Tuesday, 01 / 7 / 2025

Hyd. No. 1

Run-On

Hydrograph type	= SCS Runoff	Peak discharge	= 125.94 cfs
Storm frequency	= 25 yrs	Time to peak	= 848 min
Time interval	= 1 min	Hyd. volume	= 2,314,063 cuft
Drainage area	= 470.710 ac	Curve number	= 68
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 209.00 min
Total precip.	= 4.23 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 1

Run-On

Description	A		B		C		Totals
Sheet Flow							
Manning's n-value	= 0.050		0.011		0.011		
Flow length (ft)	= 300.0		0.0		0.0		
Two-year 24-hr precip. (in)	= 2.07		0.00		0.00		
Land slope (%)	= 0.40		0.00		0.00		
Travel Time (min)	**= 23.19**	**+**	**0.00**	**+**	**0.00**	**=**	**23.19**
Shallow Concentrated Flow							
Flow length (ft)	= 11378.00		0.00		0.00		
Watercourse slope (%)	= 0.40		0.00		0.00		
Surface description	= Unpaved		Paved		Paved		
Average velocity (ft/s)	=1.02		0.00		0.00		
Travel Time (min)	**= 185.84**	**+**	**0.00**	**+**	**0.00**	**=**	**185.84**
Channel Flow							
X sectional flow area (sqft)	= 0.00		0.00		0.00		
Wetted perimeter (ft)	= 0.00		0.00		0.00		
Channel slope (%)	= 0.00		0.00		0.00		
Manning's n-value	= 0.015		0.015		0.015		
Velocity (ft/s)	=0.00						
			0.00				
					0.00		
Flow length (ft)	({0})0.0		0.0		0.0		
Travel Time (min)	**= 0.00**	**+**	**0.00**	**+**	**0.00**	**=**	**0.00**

Total Travel Time, Tc ..... 209.00 min

RUN-OFF

SCHEMATIC MAP

Watershed Model Schematic

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Legend

Hyd.	Origin	Description
1	SCS Runoff	Run-Off

RUN-OFF

BASIN HYDROGRAPHS AND TC CALCULATIONS

25-YEAR STORM EVENT

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	13.21	1	729	49,131	------	------	------	Run-Off

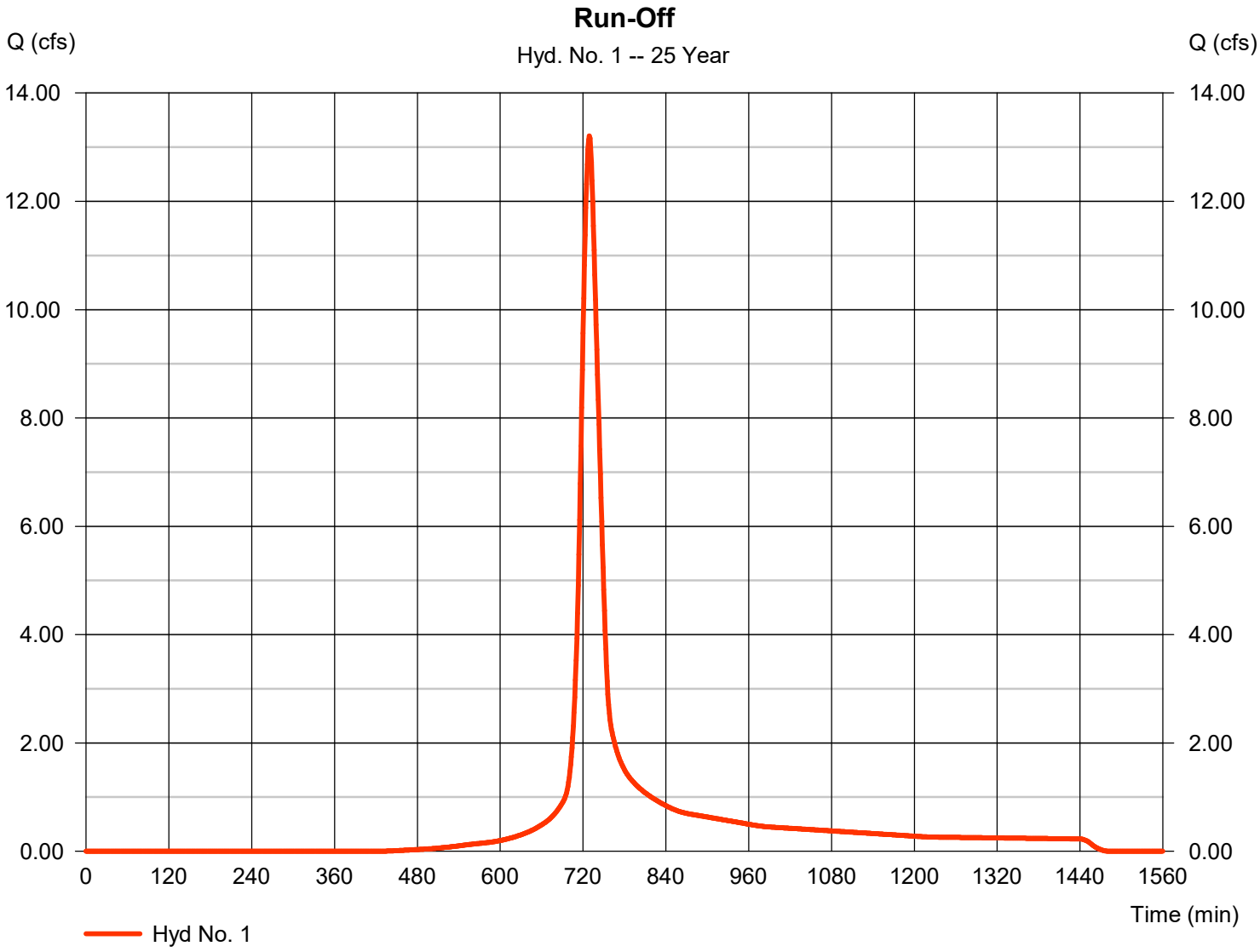
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025 Tuesday, 01 / 7 / 2025

Hyd. No. 1

Run-Off

Hydrograph type	= SCS Runoff	Peak discharge	= 13.21 cfs
Storm frequency	= 25 yrs	Time to peak	= 729 min
Time interval	= 1 min	Hyd. volume	= 49,131 cuft
Drainage area	= 5.400 ac	Curve number	= 83
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 26.30 min
Total precip.	= 4.23 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 1

Run-Off

Description	A		B		C		Totals
Sheet Flow							
Manning's n-value	= 0.050		0.011		0.011		
Flow length (ft)	= 300.0		0.0		0.0		
Two-year 24-hr precip. (in)	= 2.07		0.00		0.00		
Land slope (%)	= 0.50		0.00		0.00		
Travel Time (min)	**= 21.21**	**+**	**0.00**	**+**	**0.00**	**=**	**21.21**
Shallow Concentrated Flow							
Flow length (ft)	= 350.00		0.00		0.00		
Watercourse slope (%)	= 0.50		0.00		0.00		
Surface description	= Unpaved		Paved		Paved		
Average velocity (ft/s)	=1.14		0.00		0.00		
Travel Time (min)	**= 5.11**	**+**	**0.00**	**+**	**0.00**	**=**	**5.11**
Channel Flow							
X sectional flow area (sqft)	= 0.00		0.00		0.00		
Wetted perimeter (ft)	= 0.00		0.00		0.00		
Channel slope (%)	= 0.00		0.00		0.00		
Manning's n-value	= 0.015		0.015		0.015		
Velocity (ft/s)	=0.00						
			0.00				
					0.00		
Flow length (ft)	({0})0.0		0.0		0.0		
Travel Time (min)	**= 0.00**	**+**	**0.00**	**+**	**0.00**	**=**	**0.00**

Total Travel Time, Tc ..... 26.30 min

SECONDARY CONTAINMENT

SCHEMATIC MAP

Watershed Model Schematic

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Legend

Hyd.	Origin	Description
1	SCS Runoff	Secondary Containment

SECONDARY CONTAINMENT

BASIN HYDROGRAPHS AND TC CALCULATIONS

25-YEAR STORM EVENT

Hydrograph Summary Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No.	Hydrograph type (origin)	Peak flow (cfs)	Time interval (min)	Time to Peak (min)	Hyd. volume (cuft)	Inflow hyd(s)	Maximum elevation (ft)	Total strge used (cuft)	Hydrograph Description
1	SCS Runoff	1.409	1	716	3,190	------	------	------	Secondary Containment

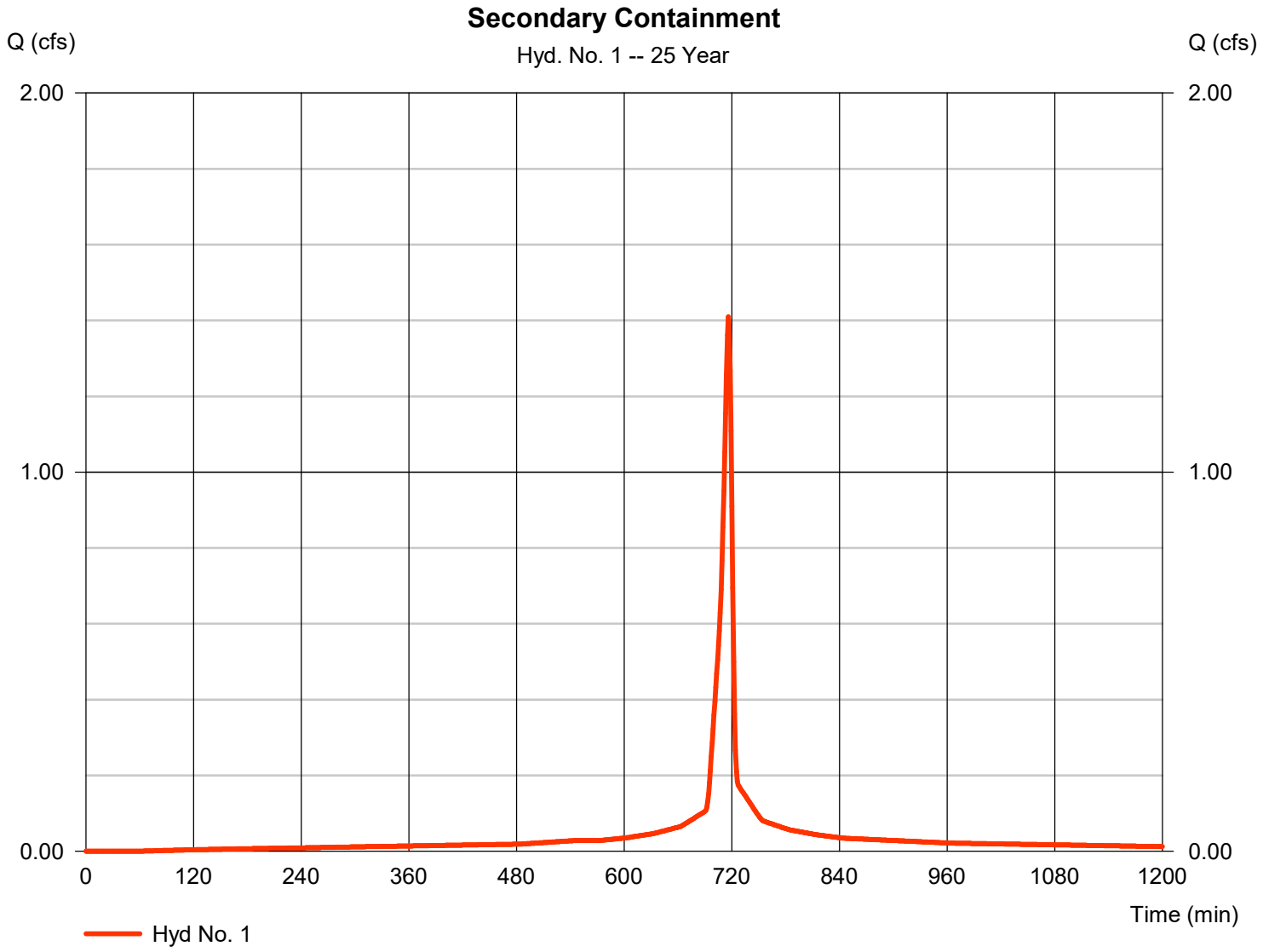
Hydrograph Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025 — Tuesday, 04 / 29 / 2025

Hyd. No. 1

Secondary Containment

Hydrograph type	= SCS Runoff	Peak discharge	= 1.409 cfs
Storm frequency	= 25 yrs	Time to peak	= 716 min
Time interval	= 1 min	Hyd. volume	= 3,190 cuft
Drainage area	= 0.220 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= TR55	Time of conc. (Tc)	= 3.70 min
Total precip.	= 4.23 in	Distribution	= Type II
Storm duration	= 24 hrs	Shape factor	= 484



TR55 Tc Worksheet

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Hyd. No. 1

Secondary Containment

Description	A		B		C		Totals
Sheet Flow							
Manning's n-value	= 0.009		0.011		0.011		
Flow length (ft)	= 60.0		0.0		0.0		
Two-year 24-hr precip. (in)	= 2.07		0.00		0.00		
Land slope (%)	= 0.05		0.00		0.00		
Travel Time (min)	**= 3.73**	**+**	**0.00**	**+**	**0.00**	**=**	**3.73**
Shallow Concentrated Flow							
Flow length (ft)	= 0.00		0.00		0.00		
Watercourse slope (%)	= 0.00		0.00		0.00		
Surface description	= Paved		Paved		Paved		
Average velocity (ft/s)	=0.00		0.00		0.00		
Travel Time (min)	**= 0.00**	**+**	**0.00**	**+**	**0.00**	**=**	**0.00**
Channel Flow							
X sectional flow area (sqft)	= 0.00		0.00		0.00		
Wetted perimeter (ft)	= 0.00		0.00		0.00		
Channel slope (%)	= 0.00		0.00		0.00		
Manning's n-value	= 0.015		0.015		0.015		
Velocity (ft/s)	=0.00						
			0.00				
					0.00		
Flow length (ft)	({0})0.0		0.0		0.0		
Travel Time (min)	**= 0.00**	**+**	**0.00**	**+**	**0.00**	**=**	**0.00**

Total Travel Time, Tc ..... 3.70 min

APPENDIX S.C.P.5

CHANNEL ANALYSIS/EARTHEN BERM DESIGN

Channel Report

Hydraflow Express Extension for Autodesk® Civil 3D® by Autodesk, Inc. Monday, Jan 6 2025

West Property Topo

User-defined

Invert Elev (ft)	= 1042.79
Slope (%)	= 0.50
N-Value	= 0.050

Calculations

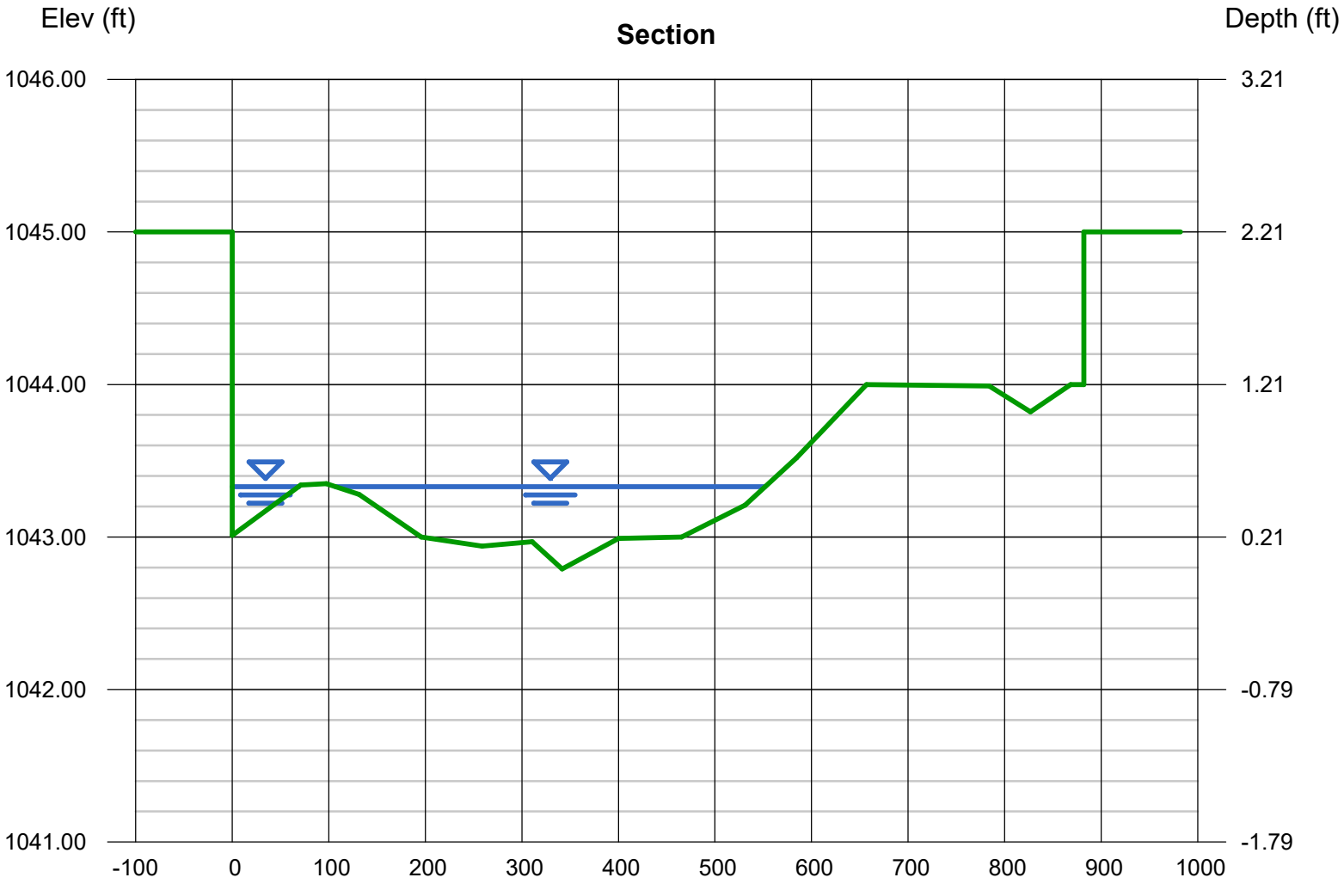
Compute by:	Known Q
Known Q (cfs)	= 125.94

Highlighted

Depth (ft)	= 0.54
Q (cfs)	= 125.94
Area (sqft)	= 143.64
Velocity (ft/s)	= 0.88
Wetted Perim (ft)	= 514.03
Crit Depth, Yc (ft)	= 0.35
Top Width (ft)	= 513.71
EGL (ft)	= 0.55

(Sta, El, n)-(Sta, El, n)...

(0.00, 1045.00)-(71.03, 1043.34, 0.050)-(97.38, 1043.35, 0.050)-(131.32, 1043.28, 0.050)-(195.73, 1043.00, 0.050)-(258.80, 1042.94, 0.050)-(310.52, 1042.97, 0.05
-(341.75, 1042.79, 0.050)-(400.00, 1042.99, 0.050)-(465.37, 1043.00, 0.050)-(531.20, 1043.21, 0.050)-(584.49, 1043.52, 0.050)-(656.86, 1044.00, 0.050)-(784.00, 1
-(826.62, 1043.82, 0.050)-(868.26, 1044.00, 0.050)-(881.96, 1044.00, 0.050)-(881.96, 1045.00, 0.050)



Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 472051

CONDITIONS

Operator: Moonshine Energy, LLC 5006 PORTICO WAY Midland, TX 79707	OGRID: 332360
	Action Number: 472051
	Action Type: [C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)

CONDITIONS

Created By	Condition	Condition Date
lbarr	None	6/9/2025