South Dakota Spill Report Form

PRCF #: **Case #:** 2025.060

Reported (MM/DD/YY): 5/16/25	Time: 4.00 PM	Recorded By: LK

A. REPORTER

Reported By: Bradley Bishop		
Organization Name: American Engineering Testing		☐ Discharger ☐ Public ☐ State ☑ Local ☐ Federal
Phone: (605) 388-0029		Email: bbishop@teamaet.com
Address: 1745 Samco Road		
City: Rapid City	State: SD	Zip: 57702

B. DISCHARGER (Responsible Party) ☐ As Above in A

Name: Rafter J Bar Ranch Campground - Sam Ferebee		
Address: 12325 Rafter J Road		
City: Hill City	State: SD	Zip: 57745
Phone: (605) 574-2527	Email:	

C. INCIDENT DATE & LOCATION ☒ As Above In B

Spill Date: (MM/DD/YY)	Spill Time:		
Street or Approx. Location:			
Survey Description:			
City:	County: Pennington	State:	Zip:

D. MATERIAL

Material type (Code/Name): ☑ Hazardous Substance ☐ Oil ☐ Material Unknown ☐ Other	Quantity Spilled	Spilled in Water	Units (Check one)	
Gasoline	unknown	none	☐ lb. ☐ bbl.	☐ gal. ☐ oth.
			☐ lb. ☐ bbl.	☐ gal. ☐ oth.
			☐ lb. ☐ bbl.	☐ gal. ☐ oth.

E. SOURCE

Source of Spill: ☐ AST ☑ UST ☐ Railway ☐ Transport ☐ Fixed Facility ☐ Pipeline ☐ Highway ☐ Other

Description: two 6,000-gallon UST with two dispensers, for gasoline

Regulated Tank Facility: ☑ Tank Facility ID #: 02-00263

F. MEDIUM

Medium Affected: ☐ Air ☑ Land ☐ Water ☐ Groundwater ☐ Within Facilities Only

Waterway Affected: none

G. CAUSE

Reported Cause: ☐ Transportation Accident ☐ Operational Error ☐ Dumping ☐ Equipment Failure ☐ Natural Phenomenon ☑ Unknown ☐ Other

Description: contamination encountered during tank removal

H. DAMAGES

# of Injuries:	# of Fatalities:

I. ACTIONS

Response Action Taken:

Tank system removed and contaminated soil properly disposed of on April 1, 2025.

K. NOTIFIED

Responding Agency: ☑ DANR ☑ Local ☑ Discharger ☐ Federal ☐ EPA ☐ Other

Agencies Notified:

K. COMMENTS

Comments:

During removal of system, some petroleum contamination was identified. Over 6 tons of contaminated soil was removed and disposed of. Remaining soils were tested for contamination and analytical results indicated non-detect levels on petroleum constituents.

Department of Agriculture and Natural Resources
Inspection, Compliance, and Remediation Program
523 East Capitol Avenue
Pierre, South Dakota 57501

Business Hours M – F 8:00-5:00 pm
Normal Business Hours- (605)773-3296
After Business Hours- (605) 773-3231

DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
523 E CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

Todd George
Rafter J Bar Ranch Camp
P.O. Box 128
Hill City, SD 57745

June 16, 2025

Re: Closure Designation for DANR Spill # 2025.060;
Rafter J Bar Ranch Camp, 12325 Rafter J Road, Hill City.

Dear Todd George,

Staff from the South Dakota Department of Agriculture and Natural Resources (DANR) have reviewed the available information for the above-referenced property and determined that further assessment will not be required. DANR has determined, based on the available site and testing information, there is no current risk to human health or further risk to the environment. Therefore, the DANR will assign Closure status to Spill # 2025.060.

In addition, if future exposure pathways are created or if problems arise from the remaining contamination associated with this release, you may be responsible for further assessment and cleanup actions if the use of the property changes, which increases the risk to human health and the environment from contamination documented at this property. The Closure designation will be recorded in DANR's release database and can be found at https://apps.sd.gov/NR42InteractiveMap.

If you have any questions or concerns about your site's Closure designation, please contact Liam Kirk of my staff at (605) 773-3296. Thank you for your cooperation in protecting South Dakota's ground water resources.

Sincerely,

Terry Florentz
Program Administrator

Cc: Bradley Bishop, American Engineering Testing
Dustin Willett, Pennington County EM
Zach Burggraff, DANR

DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES
JOE FOSS BUILDING
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PIERRE SD 57501-3182
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MEMORANDUM

TO: Terry Florentz, P.E., Administrator
Inspection, Compliance, and Remediation Program

FROM: Liam Kirk, Engineer I
Inspection, Compliance, and Remediation Program

SUBJECT: Closure Designation for Rafter J Bar Ranch Camp – DANR Spill # 2025.060, Hill City, South Dakota

DATE: June 16, 2025

Introduction

This memo provides a summary of DANR Spill # 2025.060. This summary includes general spill information, investigation efforts, and remaining contamination. Finally, I recommend this file receive Closure status.

General Spill Information

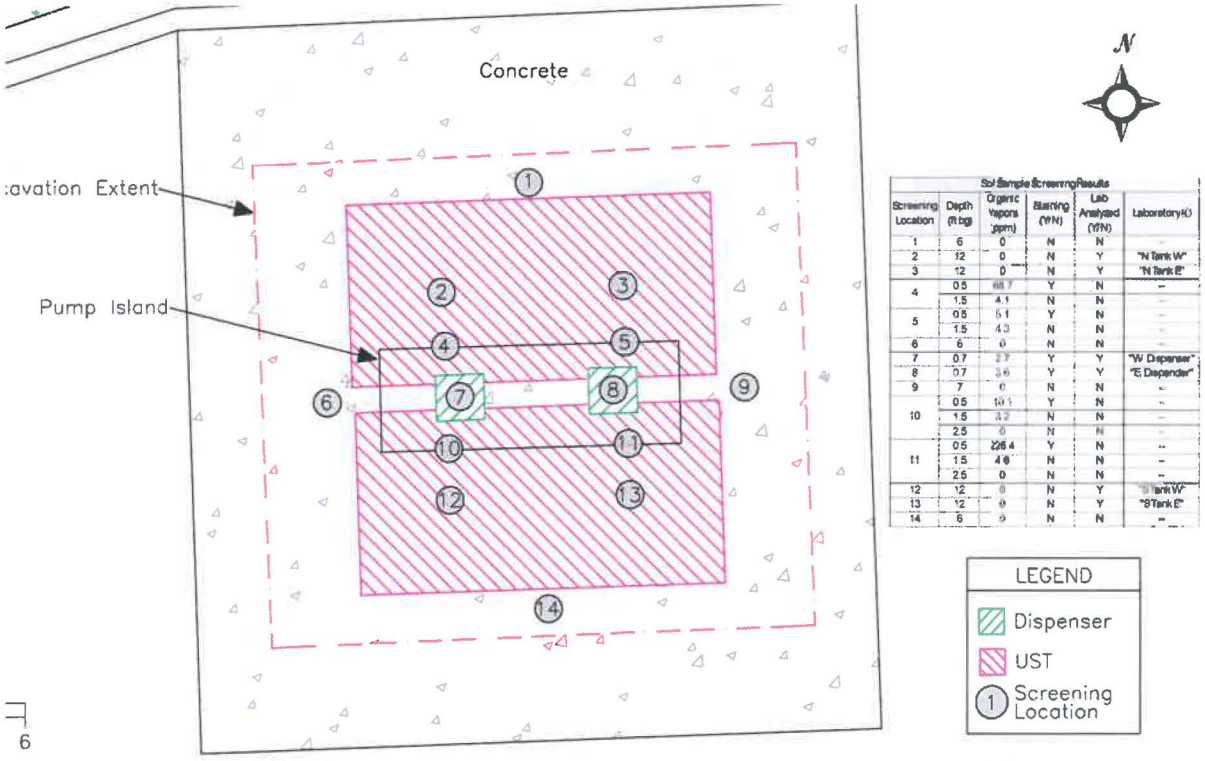
Site Name:	Rafter J Bar Ranch Camp
Location:	12325 Rafter J Road Hill City, Pennington County, SD 57745
Discovery Date:	5/16/2025

Summary of Release

On April 1, 2025, American Engineering Testing (AET) and Nielsen Construction mobilized to Rafter J Bar Ranch Camp to inspect the site and begin UST system removal activities. After inerting the tanks, Nielsen Construction removed concrete surfacing and began excavation. Visual and olfactory indications of petroleum contamination were observed in the upper foot of excavated soils near the northwest and southeast corners of the pump island. Impacted soils were not encountered at any other location or depth during the UST system removal.

Remaining Contamination

Upon discovery of petroleum impacted soils, Nielsen Construction established a stockpile of impacted soil for proper disposal. Excavation of the tank basin and pump island was completed, and AET began collecting representative soil samples from the excavation area. A sample of the impacted soil stockpile was collected as well.



Soil Sample Screening Results

Screening Location	Depth (ft bg)	Organic Vapors (ppm)	Staining (Y/N)	Lab Analyzed (Y/N)	Laboratory ID
1	6	0	N	N	--
2	12	0	N	Y	"N Tank W"
3	12	0	N	Y	"N Tank E"
4	0.5	68.7	Y	N	--
	1.5	4.1	N	N	--
5	0.5	5.1	Y	N	--
	1.5	4.3	N	N	--
6	6	0	N	N	--
7	0.7	2.7	Y	Y	"W Dispenser"
8	0.7	3.6	Y	Y	"E Dispenser"
9	7	0	N	N	--
10	0.5	10.1	Y	N	--
	1.5	3.2	N	N	--
	2.5	0	N	N	--
11	0.5	226.4	Y	N	--
	1.5	4.6	N	N	--
	2.5	0	N	N	--
12	12	0	N	Y	"S Tank W"
13	12	0	N	Y	"S Tank E"
14	6	0	N	N	--

Table 1
Laboratory Analytical Data[1]

Sample ID	Depth[2]	TPH-G	Benzene	Toluene	Ethyl Benzene	Xylenes	Naphthalene
Bulk Stockpile	--	***557***[3]	<0.200[4]	<0.453	5.61	29.3	~~<0.200~~ → 2.15
W. Dispenser (7)	0.7	<10.0	<0.050	<0.100	<0.100	<0.200	<0.200
E. Dispenser (8)	0.7	<10.0	<0.050	<0.100	<0.100	<0.200	<0.200
S Tank E (13)	12	<10.0	<0.050	<0.100	<0.100	<0.200	<0.200
S Tank W (12)	12	<10.0	<0.050	<0.100	<0.100	<0.200	<0.200
N Tank E (3)	12	<10.0	<0.050	<0.100	<0.100	<0.200	<0.200
N Tank W (2)	12	<10.0	<0.050	<0.100	<0.100	<0.200	<0.200
DANR Tier 1 Trigger/Action Levels		500	0.2	15	10	300	25

[1] All values are in mg/kg, which is equivalent to parts per million, unless otherwise noted.
[2] Depth measured in feet below grade.
[3] Values listed in ***bold italics*** indicate concentration exceeded Tier 1 Trigger or Action Levels.
[4] "<" denotes analyte not detected at or above the practical quantitation limit following the "less than" symbol.

Two samples were collected from beneath each tank of the UST system. Samples were also collected from beneath each of the former dispensers. Soil samples were then analyzed for the presence and concentration of petroleum constituents, including TPH-G, BTEX, and Naphthalene. Laboratory results indicated non-detect levels of contamination in the former tank basin and beneath the former dispenser island. A soil sample collected from the petroleum-impacted soil stockpile had a TPH-G concentration of 557 parts per million, exceeding DANR's Tier 1 Action Level. On May 1, 2025, Nielsen Construction disposed of the 6.23 tons of impacted soils at the Rapid City Landfill.

Soil samples taken from the beneath the former dispensers and USTs confirm non-detect levels of petroleum contamination present at the site. No other significant organic vapors or visual staining were identified at the site. Petroleum-impacted soils were segregated and properly disposed of at Rapid City Landfill. No contamination remains at the site, and there is no risk to human health or the environment.

Recommendations

Based on the review of information provided and an evaluation of potential risk associated with the site, I recommend Closure status for DANR Spill # 2025.060.