South Dakota Spill Report Form

PRCF #: **Case #:** 2025.022

Reported (MM/DD/YY): 2/28/25	Time:	Recorded By: J. McGuire

A. REPORTER

Reported By: Bonita Goode			
Organization Name: Sanford Underground Research Facility		☑ Discharger ☐ Public ☐ State ☐ Local ☐ Federal	
Phone:		Email:	
Address: 630 East Summit Street			
City: Lead	State: SD	Zip: 57754	

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

Name:			
Address:			
City:	State:	Zip:	
Phone:	Email:		

C. INCIDENT DATE & LOCATION ☒ As Above In B

Spill Date: (MM/DD/YY) unknown, earlier than 2002	Spill Time:		
Street or Approx. Location: Trautman Place			
Survey Description: 44.353688, -103.750727			
City:	County:	State:	Zip:

D. MATERIAL

Material type (Code/Name): ☐ Hazardous Substance ☐ Material Unknown ☑ Oil ☐ Other	Quantity Spilled	Spilled in Water	Units (Check one)	
Compressor Oil	est. <25		☐ 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: Historic Compressors associated with Homestake Mine

Regulated Tank Facility: ☐ Tank Facility ID #:

F. MEDIUM

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

Waterway Affected: n/a

G. CAUSE

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

Description: Slow leaks over time.

H. DAMAGES

# of Injuries:	# of Fatalities:

I. ACTIONS

Response Action Taken:

Will evaluate amount of remaining oil. Will pump out and recycle remaining oil. Will clean up concrete with absorbents and properly dispose of absorbents.

K. NOTIFIED

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

Agencies Notified: DANR

K. COMMENTS

Comments:

The assessment and cleanup will take place through three separate work orders beginning in April 2025 with a tentative end in June 2025.

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

Bonita Goode
Sanford Underground Research Facility
630 East Summit Street
Lead, SD 57754

March 3, 2025

Subject: Department of Agriculture and Natural Resources File Number – 2025.022. Oil release at the former Yates Compressor House, Sanford Underground Research Facility, Lead, SD.

Dear Ms. Goode:

The Department of Agriculture and Natural Resources (DANR) is contacting you regarding the above referenced matter. A copy of the initial spill report form is enclosed. Based upon the information provided, an unknown quantity of oil was released due to historical leaking compressors. The procedures for performing cleanup work in response to releases such as this, were developed to prevent pollution of the state's water resources. In this case, DANR requires the following work be performed:

- Contain the leaks. Apply an absorbent such as Floor Dry and continue to monitor the area, removing spent absorbent and reapplying absorbent as needed;
- Clean the concrete floor with absorbent materials;
- Drain the remaining oil from the leaking equipment and properly recycle the oil;
- Contaminated absorbents must be properly disposed at a permitted municipal solid waste landfill;
- Provide this office photos of cleanup work and landfill receipts;
- By June 15, 2025, please complete and return the enclosed Written Contamination Incident Follow Up Report form (this is a standard form so you can skip the questions that do not apply to your situation).

Jackie McGuire will be the project manager for this case. She will review the information provided and will contact you if further remedial action is necessary. If you have any questions or need information, please do not hesitate to contact Jackie. Thank you for your cooperation in this matter.

Sincerely,

Trish Kindt
Inspection, Compliance, and Remediation Program
Phone: (605) 773-3296

cc: Paul Thomson, Lawrence County Emergency Manager
Barbara Baker, Lawrence County

INCIDENT FOLLOW-UP REPORT

DANR CASE FILE #: 2025.022

RETURN COMPLETED FORM TO:

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE AND NATURAL RESOURCES (DANR)
INSPECTION, COMPLIANCE, AND REMEDIATION PROGRAM
JOE FOSS BUILDING
523 EAST CAPITOL AVENUE
PIERRE SD 57501-3182

NAME/TYPE OF PRODUCT SPILLED: Hydraulic Oil

TOTAL AMOUNT OF PRODUCT SPILLED: <25 gallons

POUNDS OF ACTIVE INGREDIENT SPILLED (fertilizer/pesticide spills): N/A

AMOUNT OF PRODUCT RECOVERED: 0 gallons

WAS SURFACE WATER OR GROUND WATER IMPACTED BY THE SPILL?: No

SPILL DATE: 02/28/25 DATE CLEANUP OCCURRED: 05/30/25-08/06/25

SPILL LOCATION (physical address, directions, distance to nearest intersection or landmark, etc.):
630 E Summit St, Lead, SD (Yates Compressor House)

LATITUDE/LONGITUDE: 44°21'13"N, 103°45'02"W

LAND USE (Residential, Commercial, Agricultural, Industrial, Other – describe): Commercial

RESPONSIBLE PARTY: South Dakota Science and Technology Authority (SDSTA)

MAILING ADDRESS: 630 E Summit St

CITY/STATE: Lead, SD TELEPHONE NUMBER: 605-430-5030

PROPERTY OWNER: SDSTA

MAILING ADDRESS:

CITY/STATE: TELEPHONE NUMBER:

CONSULTANT / CLEANUP CONTRACTOR (if applicable): N/A

MAILING ADDRESS

CITY/STATE: TELEPHONE NUMBER:

INSURANCE PROVIDER (if applicable): N/A

NAME OF INSURED:

POLICY NUMBER: CLAIM NUMBER:

MAILING ADDRESS:

CITY/STATE: TELEPHONE NUMBER:

INCIDENT FOLLOW-UP REPORT (Page 2 of 2)

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WAS SOIL EXCAVATED?: No DIMENSIONS OF EXCAVATION: _____

CUBIC YARDS EXCAVATED: _____

DISPOSAL SITE (Name of Facility): _____

DISPOSAL DATE: _____

*****If soil was disposed, attach copies of disposal receipts*****

FERTILIZER/PESTICIDE SPILLS ONLY **!!REQUIRES DANR PRE-APPROVAL!!**

WILL THE CONTAMINATED SOIL/MATERIAL BE LAND APPLIED?: _____

WHAT CROP IS/WILL BE GROWN ON THE LAND APPLICATION SITE?: _____

LEGAL DESCRIPTION OF THE LAND APPLICATION SITE: _____

TOTAL ACRES SOIL/MATERIAL WILL BE APPLIED TO: _____

YARDS/POUNDS/ETC. OF SOIL/MATERIAL TO BE APPLIED: _____

CONCENTRATION OF CHEMICAL IN THE SOIL/MATERIAL TO BE APPLIED?: _____

THIS SECTION FOR DANR OFFICE USE ONLY

LAND APPLICATION APPROVAL DATE: _____

APPLICATION APPROVED BY: _____

WAS SPILL CONTAINED TO IMMEDIATE AREA?: Yes

DISTANCE TO AND NAME OF NEAREST SURFACE WATER (include currently dry perennial streams): Gold Run Creek, approximately 250 yards

DISTANCE TO NEAREST WATER WELL (if applicable): _____

OWNER OF NEAREST WATER WELL (if applicable): _____

DESCRIBE RESPONSE ACTION AND ADDITIONAL WORK PLANNED: See Attached

FORM COMPLETED BY: Bonita Goode DATE: 08/08/25

E-MAIL ADDRESS: bgoode@sanfordlab.org

Original – DANR
Copy – Keep for your records.

DANR Case File #: 2025.022
Yates Compressor House

DESCRIBE RESPONSE ACTION AND ADDITIONAL WORK PLANNED:

Routine environmental inspections identified the presence of oil from leaking equipment on the floor of the historic Yates Compressor House. The compressor house has a concrete floor, four walls, and contains numerous legacy compressors used by Homestake Mining Company. The compressors were shut down and the compressor house mothballed when the mine ceased operation in 2002; neither the compressors nor the building have been used since.

The spill was reported on February 28, 2025, as a spill under Item 12 of the DANR spill reporting guidance: “The discharge is less than 25 gallons but has not been cleaned up within 24 hours.” Due to the characteristics of this “spill”, the quantity of less than 25 gallons is estimated.

In May 2025 approximately 80 gallons of oil were removed from the six compressors and associated equipment. It was identified that a large portion of the leaking oil likely originated from a frozen oil filter assembly in the basement, and that combined with water entering through a leaky roof spread the oil throughout downslope areas of the basement.



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Yates Compressor House

Due to the amount of precipitation, the basement floor, where most of the oil residue remained, was wet and made clean up difficult and not as effective at removing the residue. Therefore, the final cleanup was postponed allowing the arid summer months to dry the basement floor to allow for a more thorough cleanup.

On August 6th the oily residue on the compressor house floor was cleaned up and new oil-only absorbents were placed in areas where residual leaking may occur.





WO# 99521

WO0100958

Assign... Goode, Bonita
Priority: Normal
Due: Apr 1, 2025
Work.INSPECTION
Status: COMPLETED

Purpose

Compressor Bldg walk down to assess oil leakage
4.15.02.CA01(DR)

Asset Information

Asset: BU-YSS05-01 - Yates Compressor Building
Group: YATES
Manufacturer: Model: Serial:

Tasks

Completed	Service Code - Service Description	Service Class	Est Hours

Parts

Part Number - Part Description	Comment	Warehouse	Qty	Unit Cost	Total

Labor

Technician	Service Code	Date	Hours	Labor Rate	Total
Adam, Zachary		Mar 3, 2025	2		$0.00

Total Labor Hours 1.5

Other

Type	Note	Amount

Notes

Adam, Zachary Mar 4, 2025 09:11 AM

The main floor contains:

- (2) drums of oil/water mix
- (6) large compressor units

The basement contains:

- (2) oil-filled assets (green and yellow equipment in the attached pictures)

The equipment data plates contain no information regarding oil capacity

Goode, Bonita Mar 17, 2025 11:32 AM

Surface Ops (Tim B, Tony D, Jeremy, Sarah W, Dan R) and Environmental (Zach A, and Bonita G) inspected the building on March 13th to assess the steps required to perform the removal of oil left in the equipment. Site conditions were dangerous due to an ice covered floor in the basement, as well as in certain areas on the main floor. There was agreement that there is no good way to estimate the amount of oil remaining in the equipment and the best course of action is to begin with the "clean up" of one of the six compressors and associated tanks. The first compressor should provide valuable information on the amount of oil in the remaining five compressors, as well as lessons learned to perform the remaining cleanup safely and efficiently.

In addition to the safety concerns associated with icy conditions, the City of Lead will be starting a city water line replacement project directly adjacent to the Compressor House the week of March 17th that may delay clean up efforts due to lack of access.