

Check one of the following:

☐ On-Site Storage of PCS

☒ Landfarming PCS

☐ Storage and Landfarming PCS



Iowa Department of Natural Resources
PETROLEUM CONTAMINATED SOIL LANDFARMING AND
STORAGE NOTIFICATION FORM



Multituse and single-use landfarming agencies shall submit the following notification form to the department and department field office with jurisdiction over the landfarm before land application; however, at least 30 days' notification is encouraged. Petroleum Contaminated Soil (PCS) from an emergency cleanup supervised by the department pursuant to subrule 120.6(1), however, shall be reported within 7 days of the emergency cleanup.

Send the completed application with attached information to:

Solid Waste Section
Land Quality Bureau
Iowa Department of Natural Resources
502 E 9th Street
Des Moines, IA 50319
Fax: (515) 725-8202

Visit <https://www.iowadnr.gov/fieldoffice> for a listing of field offices addresses and jurisdictions

Questions contact Matt Graesch at (515) 725-8331 or matthew.graesch@dnr.iowa.gov

For information on Emergency Response Spills, call (515) 725-8694 or visit <http://www.iowadnr.gov/About-DNR/DNR-Staff-Offices/Environmental-Field-Offices/Emergency-Response-Unit>

SECTION 1. CONTACT INFORMATION (Provide the name, address and telephone number for the following):

Landfarming Agency Owner(s)

Name: Blackhawk Environmental Testing, Inc.

Street Address: 113 Castle Lane, P.O. Box 85

City: Denver State: IA Zip Code: 50622

Phone Number: 319/231-8215 E-mail: olliethurman@msn.com

DNR Existing Permit Number for Agency: 09 - SDP- 09-07P -PCS

PCS Landfarming/Storage Location Owner

Name: Geovanny Lomeli

Street Address: P.O. Box 36

City: Morning Sun State: IA Zip Code: 52640

Phone Number: 319/572-6116 E-mail: geovannylomeli@gmail.com

Legal Description of Property that will be Utilized for Landfarming/Storage:

(you may attach a legal description from your county assessor)

NW $\frac{1}{4}$ of NE $\frac{1}{4}$ of NE $\frac{1}{4}$ 36 T73 N R4 ☐ E ☒ W Louisa
Section Township Range County

SECTION 2: PCS LANDFARMING AND STORAGE INFORMATION

Petroleum product contaminating soil (check all that apply):

☒ Gasoline ☐ Diesel ☐ Waste Oil ☐ Kerosene ☐ Jet Fuel ☐ Other _____

* Note: Storage of non-standard PCS requires a permit amendment request

Predominant texture of the contaminated soil:

☒ Clay ☐ Sand ☐ Silt ☐ Gravel
☐ Other _____

Does PCS contain or have the potential to produce tar balls:

☐ Yes ☒ No

* PCS that has the potential to produce tar balls shall not be landfarmed

Estimated volume of PCS to be stored: 150 to 300 Cubic Yards

Date PCS is expected to be delivered for storage: _____

Date PCS is expected to be land applied: July 21, 2025Is this project part of a department-supervised emergency cleanup?: ☐ Yes ☒ No

If yes, provide the spill number _____

Petroleum Contaminated Site or Facility

Name: Sun Motor Co.Street Address: 16 N Main StreetCity: Morning Sun State: IA Zip Code: 52640Phone Number: 319/759-8875 E-mail: khall2218@gmail.com

Legal Description of Property that will be Utilized for Landfarming/Storage:

(you may attach a legal description from your county assessor)

NW $\frac{1}{4}$ of NE $\frac{1}{4}$ of NE $\frac{1}{4}$ 36 T73 N R4 ☐ E ☒ W Louisa
Section Township Range County

Underground Storage Tank Owner, if applicable

Name: Kevin Hall, Sun Motor CompanyStreet Address: 15734 50th StreetCity: Wapello State: IA Zip Code: 52653Phone Number: 319/759-8875 E-mail: _____UST Registration Number, if applicable: 8608350LUST Registration Number, if applicable: 9LTT86**SECTION 3. NOTIFICATION FORM CHECKLIST**

Checking the appropriate boxes below certifies that the attachments submitted in conjunction with this application form are complete and in compliance with the applicable chapters of the Iowa Administrative Code. While some of the attachments below may have been submitted previously, updated copies of each is required to be provided with each notification form.

Required Document

- ☒ Section A. Topographical Map of Landfarm [IAC 567 Chapter 120.11(1) "b" (2)]
- ☒ Section B. Soil Map of Landfarm with Key [IAC 567 Chapter 120.11(1) "b" (2)]
- ☒ Section C. 100-Year Flood Plain Map [IAC 567 Chapter 120.11(1) "b" (2)]
- ☐ Section D. Map of Landfarm Plot to be Utilized [IAC 567 Chapter 120.11(1) "b" (2)]
- ☒ Section E. Application Rate Calculations Pursuant to 120.9(6) [IAC 567 Chapter 120.11(1) "b" (3)]
- ☒ Section F. Chemical Analysis of Petroleum Contaminated Soil [IAC 567 Chapter 120.11(1) "c"]

SECTION 4. LANDFARMING AGENCY OWNER CERTIFICATION FOR LANDFARMING AND STORAGE OF PCS

I certify under penalty of law that I am the owner of the landfarming agency for which this Petroleum Contaminated Soil Landfarming and Storage Notification Form is submitted, and that I have examined and am familiar with the requirements of landfarming and storage of petroleum contaminated soil in accordance with Iowa Administrative Code 567-Chapter 120, and that the information I have provided is true, accurate and complete.

Signature: _____

Date: 6/24/2025Printed Name: Ollie Thurman**SECTION 5. LANDFARMING SITE OWNER CERTIFICATION FOR LANDFARMING AND STORAGE OF PCS**

I certify I own the application or storage site for the petroleum contaminated soil referenced above and I understand the landfarming practices described in this notification must conform with the requirements contained in Iowa Administrative (IAC) Code 567-Chapter 120.

Signature: _____

Date: 6/24/2025Printed Name: Geovanny Lomeli

DOCUMENTS TO BE ATTACHED

SECTION A. TOPOGRAPHICAL MAP OF LANDFARM (ONLY APPLICABLE FOR SINGLE USE LANDFARM)

- ✓ Provide a topographical map that includes at least a ¼ mile radius around the landfarm site. Clearly mark the following on the map:
 - a. Application site boundary
 - b. Water wells and occupied structures within ¼ mile of the application site
 - c. Streams, lakes, ponds, drainage ditches, sinkholes and tile line surface intakes that are located within a ¼ mile of the application site

SECTION B. SOIL MAP OF LANDFARM (ONLY APPLICABLE FOR SINGLE USE LANDFARM)

- ✓ Provide a soil map with key showing where the PCS will be applied and the landfarm site boundary. If PCS is planned to be stored, mark the location on the soil map. Soil maps can be obtained from the local Natural Resource Conservation Service (NRCS) office.

PCS shall not be applied on Loamy Sand, Sand, and Silt for single-use landfarms and Clay, Sandy Clay, Sandy Clay Loam, Sandy Loam, Loamy Sand, Sand, and Silt for multiuse landfarms as classified by the USDA Textural Classification Chart for Soils. Soils in the operating area shall have a pH greater than 6 and less than 9, free of debris larger than 4 inches in diameter, and have a minimum of 6 feet of soil over bedrock.

SECTION C. FLOOD PLAIN MAP (ONLY APPLICABLE FOR SINGLE-USE LANDFARM)

- ✓ Provide a 100-year flood plain map showing where the PCS will be applied and the landfarm site boundary.

SECTION D. MAP OF LANDFARM PLOT TO BE UTILIZED (ONLY APPLICABLE FOR MULTIUSE LANDFARM)

- ✓ Provide a map illustrating the multiuse landfarm site and indicating the landfarm plot which the PCS is to be applied.

SECTION E. APPLICATION RATE CALCULATIONS PURSUANT TO IAC 567-120.9(6) (APPLICABLE TO SINGLE- USE AND MULTIUSE LANDFARM)

- ✓ PCS shall be land applied at a rate that is as uniform as practical over an area sufficient to satisfy the greater of the following area requirements. However, PCS from an emergency cleanup supervised by the department pursuant to subrule 120.6(1) may instead be land applied at a rate of 162 ft² of landfarm area per cubic yard (yd³) of PCS, that is as uniform as practical, and in which no layer of unincorporated PCS is thicker than 2 inches.
 - a. Petroleum constituents. PCS shall be land applied over the largest area required by the following:
 - (1) Benzene. PCS contaminated with benzene shall be land applied in accordance with Table 1. The average concentration of benzene in the PCS shall be used to determine the landfarm area (ft²) required per cubic yard (yd³) of PCS to be land applied. The average concentration of benzene shall be calculated from all soil boring test results that are within the PCS excavation area. The application shall be as uniform as practical over the area required.

Table 1

Average concentration of benzene (mg/kg)	Ft ² of landfarm area per yd ³ of PCS applied	Maximum thickness of unincorporated PCS	Yd ³ of PCS per acre of landfarm
0 < mg/kg ≤ 10	81 ft ²	4 inches	537 yd ³
10 < mg/kg ≤ 20	162 ft ²	2 inches	268 yd ³
20 < mg/kg	324 ft ²	1 inch	134 yd ³

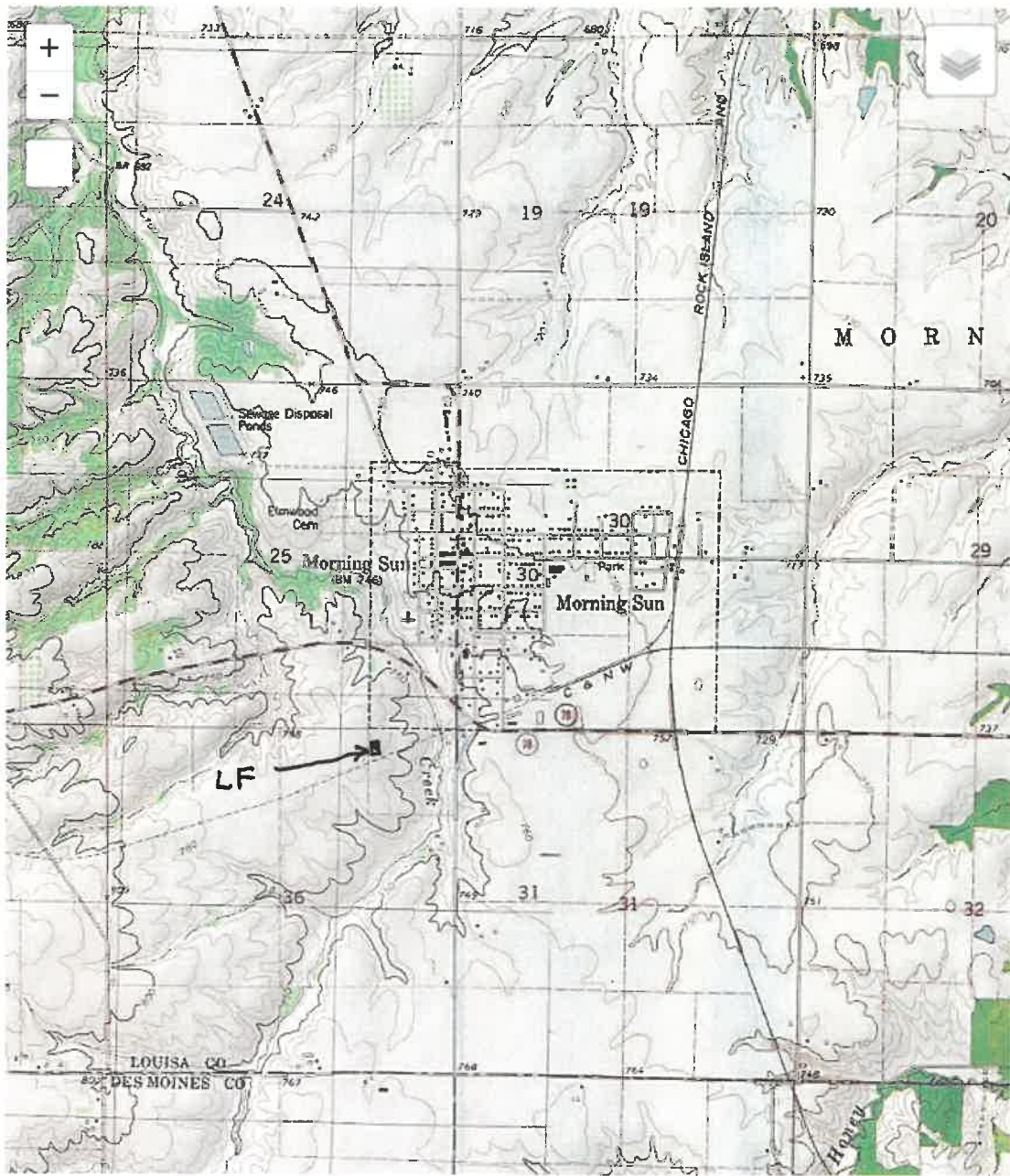
- (2) Toluene, ethylbenzene, xylene, and TEH-diesel. PCS that is not contaminated with benzene or MTBE, but is contaminated with toluene, ethylbenzene, xylene, THE-diesel, or some combination thereof, shall be land applied at a rate of 81 ft² of landfarm area per cubic yard (yd³) of PCS. The application shall be as uniform as practical, and no layer of unincorporated PCS shall be thicker than 4 inches.
 - b. Total heavy metals. PCS that has been tested for heavy metals pursuant to subparagraph 120.6(2)“c”(4) shall be applied at a rate that is as uniform as practical, that results in no layer of PCS is thicker than 4 inches, and that upon incorporation produces a landfarm soil that satisfies the following requirements. This analysis requires prior testing of background levels of heavy metals at the proposed landfarm site.
 - (1) Total heavy metals are less than 2,500 milligrams per kilogram (mg/kg).
 - (2) Any particular concentration of a heavy metal is less than the appropriate statewide standard for soil developed pursuant to 567—Chapter 137.

SECTION F. CHEMICAL ANALYSIS OF PETROLEUM CONTAMINATED SOIL (APPLICABLE TO SINGLE-USE AND MULTIUSE LANDFARM)

- ✓ The following analyses shall be performed. Samples shall be acquired, stored, handled, tested and reported in accordance with the required methodology and accepted scientific procedures. A laboratory certified for UST petroleum analyses pursuant to IAC 567-Chapter 83 shall test samples. The analysis shall utilize the most recent version of Method OA-1 (GCMS), "Method for Determination of Volatile Petroleum Hydrocarbons (Gasoline)," University of Iowa Hygienic Laboratory.
 - a. BTEX testing. The PCS shall be tested for benzene, toluene, ethylbenzene and xylene.
 - b. TEH-diesel testing. The PCS shall be tested for total extractable hydrocarbons.
 - c. MTBE testing. The PCS shall be tested for methyl tertiary-butyl ether unless prior analysis at the site, pursuant to IAC 567-Chapter 135.15(455B), has shown that MTBE is not present in the soil or groundwater.
 - d. Total metals testing. If the history of the petroleum contaminated site is known to have included solvents, batteries, leaded fuel, waste oil or a gas station in operation prior to 1985, then the PCS shall be tested for total Resource Conservation and Recovery Act (RCRA) metals.

SECTION A: TOPOGRAPHICAL MAP

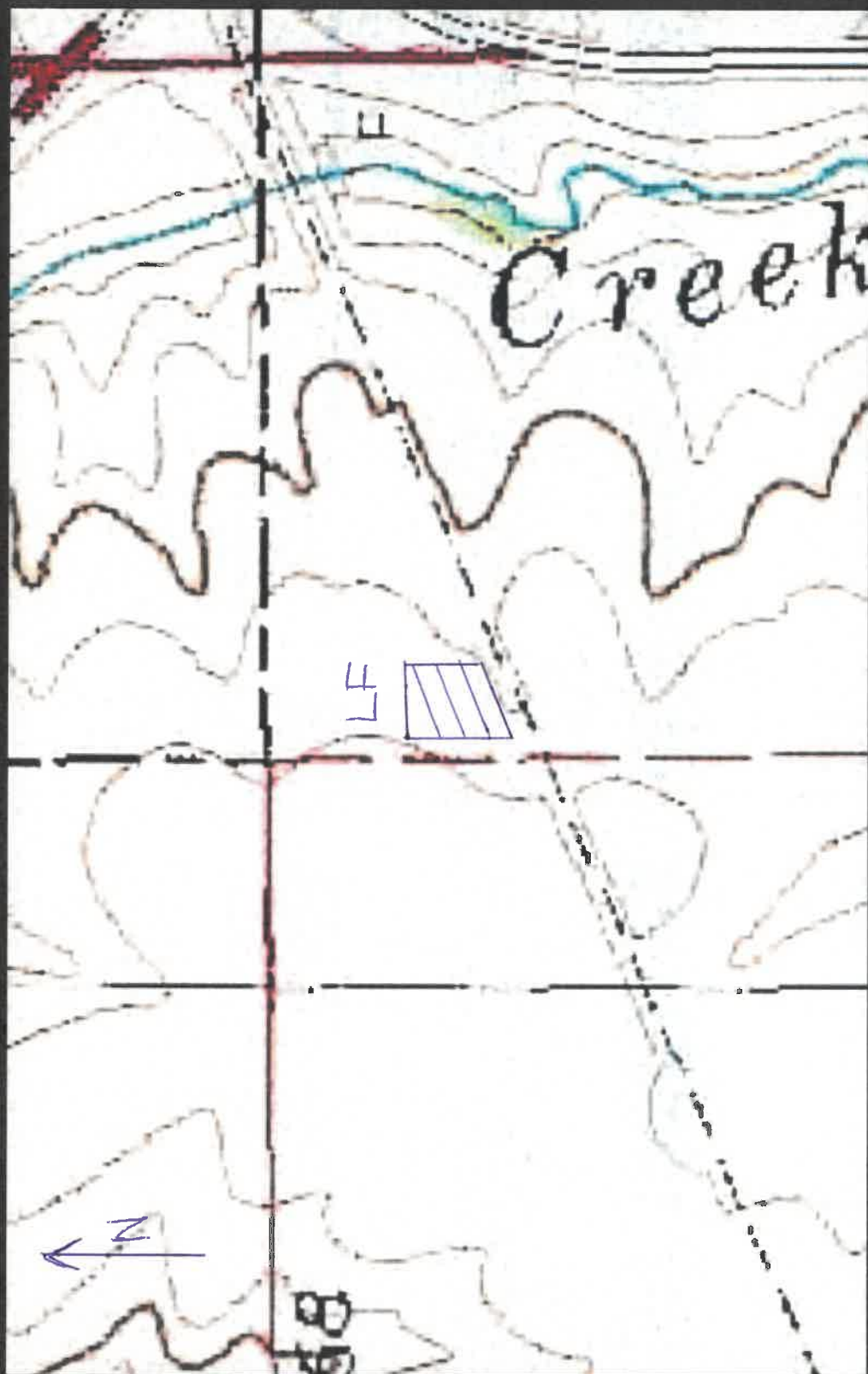
Morning Sun Elevator Topo Map in Louisa County Iowa



[Print this map](#)

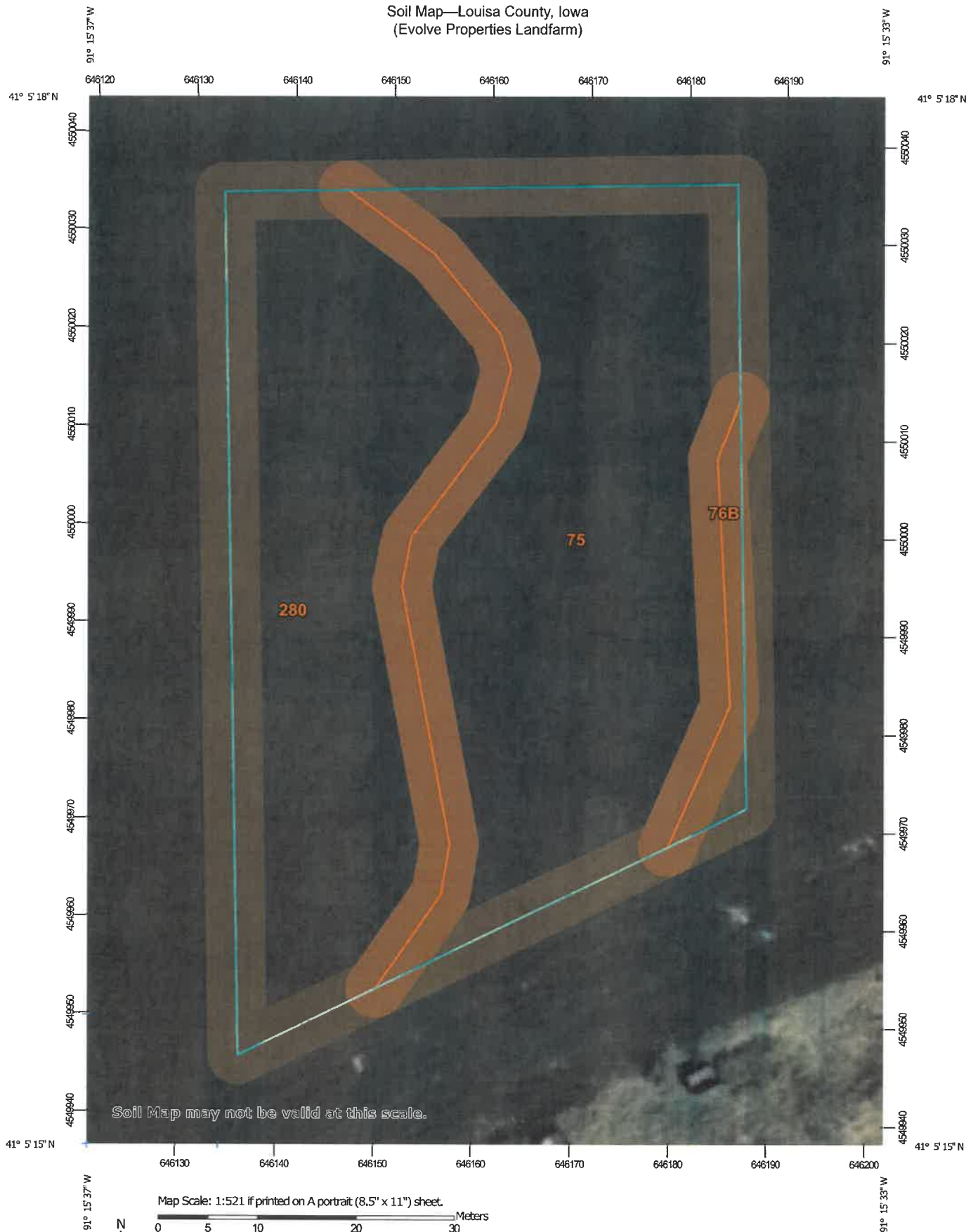
Map provided by [LocoZone.com](#)

DO NOT SELL OR SHARE MY INFORMATION



SECTION B: SOIL MAP

Soil Map—Louisa County, Iowa (Evolve Properties Landfarm)



Map Scale: 1:521 if printed on A portrait (8.5" x 11") sheet.

0 5 10 20 30 Meters

0 25 50 100 150 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84
















































**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

6/21/2025
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)		Area of Interest (AOI)		Spoil Area
Soils		Soil Map Unit Polygons		Stony Spot
		Soil Map Unit Lines		Very Stony Spot
		Soil Map Unit Points		Wet Spot
		Special Point Features		Other
		Blowout		Special Line Features
		Borrow Pit		Water Features
		Clay Spot		Streams and Canals
		Closed Depression		Transportation
		Gravel Pit		Rails
		Gravelly Spot		Interstate Highways
		Landfill		US Routes
		Lava Flow		Major Roads
		Marsh or swamp		Local Roads
		Mine or Quarry		Background
		Miscellaneous Water		Aerial Photography
		Perennial Water		
		Rock Outcrop		
		Saline Spot		
		Sandy Spot		
		Severely Eroded Spot		
		Sinkhole		
		Slide or Slip		
		Sodic Spot		

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
75	Givin silt loam, 0 to 2 percent slopes	0.5	52.7%
76B	Ladoga silt loam, 2 to 5 percent slopes	0.0	2.8%
280	Mahaska silty clay loam, 0 to 2 percent slopes	0.4	44.5%
Totals for Area of Interest		1.0	100.0%

SECTION C: FLOOD PLAIN MAP

National Flood Hazard Layer FIRMette

91°15'39"W 41°05'37"N



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, Area 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

- Area of Minimal Flood Hazard (Zone X)
- Effective LOMRs
- Area of Undetermined Flood Hazard (Zone X)

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- 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

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 6/21/2025 at 6:11 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.



SECTION E: APPLICATION RATE CALCULATIONS

The limiting chemical of concern is benzene.

Samples collected from the suspected excavation area:

B-1	8.39 mg/kg
PLF-1	<u><0.0970 mg/kg</u>
	8.487 mg/kg

This equates to a benzene average of 4.24 mg/kg, therefore PCS shall be land applied at a rate of 81 ft² of landfarm area per cubic yard of PCS. The application shall be as uniform as practical, and no layer of unincorporated PCS shall be thicker than 4 inches.

SECTION F: CHEMICAL ANALYSIS OF PCS

ANALYTICAL REPORT

PREPARED FOR

Attn: Ollie Thurman
Blackhawk Environmental Testing Inc.
PO BOX 85
Denver, Iowa 50622-0085

Generated 5/22/2025 9:43:09 PM

JOB DESCRIPTION

Sun Motor Company, Morning Sun, IA
Project # 25584

JOB NUMBER

310-306411-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



Generated
5/22/2025 9:43:09 PM

Authorized for release by
Conner Calhoun, Client Service Manager
Conner.Calhoun@et.eurofinsus.com
(319)277-2401

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Case Narrative

Client: Blackhawk Environmental Testing Inc.
Project: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1

Job ID: 310-306411-1

Eurofins Cedar Falls

Job Narrative 310-306411-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 5/14/2025 6:10 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method OA2: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: PLF-1 7ft (310-306411-1). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Cedar Falls

Sample Summary

Client: Blackhawk Enviromental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-306411-1	PLF-1 7ft	Solid	05/13/25 14:45	05/14/25 18:10

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Detection Summary

Client: Blackhawk Environmental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Client Sample ID: PLF-1 7ft

Lab Sample ID: 310-306411-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	7.26		0.0970		mg/Kg	1		8260D	Total/NA
Toluene	1.45		0.0970		mg/Kg	1		8260D	Total/NA
Xylenes, Total	29.6		0.146		mg/Kg	1		8260D	Total/NA
Gasoline	1260		43.8		mg/Kg	1		OA-2	Total/NA
Arsenic	7.12		3.31		mg/Kg	1		6010D	Total/NA
Barium	218		0.828		mg/Kg	1		6010D	Total/NA
Chromium	18.4		0.828		mg/Kg	1		6010D	Total/NA
Lead	12.9		4.14		mg/Kg	1		6010D	Total/NA
Mercury	0.0248		0.0175		mg/Kg	1		7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Client Sample Results

Client: Blackhawk Environmental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Client Sample ID: PLF-1 7ft

Lab Sample ID: 310-306411-1

Date Collected: 05/13/25 14:45

Matrix: Solid

Date Received: 05/14/25 18:10

Sampler Name: Ollie Thurman

Sampler Phone Number: 319-231-8215

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0970		0.0970		mg/Kg		05/20/25 10:47	05/21/25 15:44	1
Ethylbenzene	7.26		0.0970		mg/Kg		05/20/25 10:47	05/21/25 15:44	1
Methyl tert-butyl ether	<0.0970		0.0970		mg/Kg		05/20/25 10:47	05/21/25 15:44	1
Toluene	1.45		0.0970		mg/Kg		05/20/25 10:47	05/21/25 15:44	1
Xylenes, Total	29.6		0.146		mg/Kg		05/20/25 10:47	05/21/25 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		80 - 120				05/20/25 10:47	05/21/25 15:44	1
Toluene-d8 (Surr)	98		80 - 120				05/20/25 10:47	05/21/25 15:44	1
4-Bromofluorobenzene (Surr)	107		80 - 120				05/20/25 10:47	05/21/25 15:44	1

Method: Iowa DNR OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	1260		43.8		mg/Kg		05/19/25 09:36	05/19/25 23:32	1
Diesel	<43.8		43.8		mg/Kg		05/19/25 09:36	05/19/25 23:32	1
Waste Oil	<43.8		43.8		mg/Kg		05/19/25 09:36	05/19/25 23:32	1
Total Extractable Hydrocarbons	<65.8		65.8		mg/Kg		05/19/25 09:36	05/19/25 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane	35		12 - 150				05/19/25 09:36	05/19/25 23:32	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.12		3.31		mg/Kg		05/15/25 09:00	05/16/25 15:11	1
Barium	218		0.828		mg/Kg		05/15/25 09:00	05/16/25 15:11	1
Cadmium	<0.828		0.828		mg/Kg		05/15/25 09:00	05/16/25 15:11	1
Chromium	18.4		0.828		mg/Kg		05/15/25 09:00	05/16/25 15:11	1
Lead	12.9		4.14		mg/Kg		05/15/25 09:00	05/16/25 15:11	1
Selenium	<4.14		4.14		mg/Kg		05/15/25 09:00	05/16/25 15:11	1
Silver	<0.828		0.828		mg/Kg		05/15/25 09:00	05/16/25 15:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0248		0.0175		mg/Kg		05/15/25 10:56	05/15/25 14:26	1

Definitions/Glossary

Client: Blackhawk Environmental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Surrogate Summary

Client: Blackhawk Environmental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DBFM (80-120)	TOL (80-120)	BFB (80-120)
310-306411-1	PLF-1 7ft	96	98	107
LCS 310-455199/2-A	Lab Control Sample	107	100	93
MB 310-455199/1-A	Method Blank	101	91	92

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCN (12-150)
310-306411-1	PLF-1 7ft	35
LCS 310-455049/2-A	Lab Control Sample	75
MB 310-455049/1-A	Method Blank	71

Surrogate Legend

OTCN = n-Octacosane

QC Sample Results

Client: Blackhawk Environmental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-455199/1-A

Matrix: Solid

Analysis Batch: 455200

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 455199

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0945		0.0945		mg/Kg		05/20/25 10:47	05/21/25 07:44	1
Ethylbenzene	<0.0945		0.0945		mg/Kg		05/20/25 10:47	05/21/25 07:44	1
Methyl tert-butyl ether	<0.0945		0.0945		mg/Kg		05/20/25 10:47	05/21/25 07:44	1
Toluene	<0.0945		0.0945		mg/Kg		05/20/25 10:47	05/21/25 07:44	1
Xylenes, Total	<0.142		0.142		mg/Kg		05/20/25 10:47	05/21/25 07:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120	05/20/25 10:47	05/21/25 07:44	1
Toluene-d8 (Surr)	91		80 - 120	05/20/25 10:47	05/21/25 07:44	1
4-Bromofluorobenzene (Surr)	92		80 - 120	05/20/25 10:47	05/21/25 07:44	1

Lab Sample ID: LCS 310-455199/2-A

Matrix: Solid

Analysis Batch: 455200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 455199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.937	0.9488		mg/Kg		101	76 - 129
Ethylbenzene	0.937	0.8329		mg/Kg		89	76 - 128
Methyl tert-butyl ether	0.937	0.9848		mg/Kg		105	68 - 139
Toluene	0.937	0.8455		mg/Kg		90	75 - 126
Xylenes, Total	1.87	1.622		mg/Kg		86	77 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	107		80 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)

Lab Sample ID: MB 310-455049/1-A

Matrix: Solid

Analysis Batch: 455023

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 455049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	<9.58		9.58		mg/Kg		05/19/25 09:36	05/19/25 18:11	1
Diesel	<9.58		9.58		mg/Kg		05/19/25 09:36	05/19/25 18:11	1
Waste Oil	<9.58		9.58		mg/Kg		05/19/25 09:36	05/19/25 18:11	1
Total Extractable Hydrocarbons	<14.4		14.4		mg/Kg		05/19/25 09:36	05/19/25 18:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	71		12 - 150	05/19/25 09:36	05/19/25 18:11	1

Lab Sample ID: LCS 310-455049/2-A

Matrix: Solid

Analysis Batch: 455023

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 455049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel	132	114.1		mg/Kg		87	54 - 121

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QC Sample Results

Client: Blackhawk Environmental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC) (Continued)

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
n-Octacosane	75		12 - 150

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 310-454455/1-A

Matrix: Solid

Analysis Batch: 454997

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454455

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<3.69		3.69		mg/Kg		05/15/25 09:00	05/16/25 14:34	1
Barium	<0.922		0.922		mg/Kg		05/15/25 09:00	05/16/25 14:34	1
Cadmium	<0.922		0.922		mg/Kg		05/15/25 09:00	05/16/25 14:34	1
Chromium	<0.922		0.922		mg/Kg		05/15/25 09:00	05/16/25 14:34	1
Lead	<4.61		4.61		mg/Kg		05/15/25 09:00	05/16/25 14:34	1
Selenium	<4.61		4.61		mg/Kg		05/15/25 09:00	05/16/25 14:34	1
Silver	<0.922		0.922		mg/Kg		05/15/25 09:00	05/16/25 14:34	1

Lab Sample ID: LCS 310-454455/2-A

Matrix: Solid

Analysis Batch: 454997

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454455

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Arsenic	192	193.4		mg/Kg		101	80 - 120
Barium	95.8	98.98		mg/Kg		103	80 - 120
Cadmium	95.8	91.16		mg/Kg		95	80 - 120
Chromium	95.8	94.59		mg/Kg		99	80 - 120
Lead	192	181.6		mg/Kg		95	80 - 120
Selenium	383	374.0		mg/Kg		98	80 - 120
Silver	95.8	97.02		mg/Kg		101	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 310-454756/1-A

Matrix: Solid

Analysis Batch: 454837

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 454756

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.0183		0.0183		mg/Kg		05/15/25 10:56	05/15/25 14:02	1

Lab Sample ID: LCS 310-454756/2-A

Matrix: Solid

Analysis Batch: 454837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 454756

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Mercury	0.159	0.1504		mg/Kg		95	80 - 120

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QC Association Summary

Client: Blackhawk Enviromental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

GC/MS VOA

Prep Batch: 455199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	5035	
MB 310-455199/1-A	Method Blank	Total/NA	Solid	5035	
LCS 310-455199/2-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 455200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	8260D	455199
MB 310-455199/1-A	Method Blank	Total/NA	Solid	8260D	455199
LCS 310-455199/2-A	Lab Control Sample	Total/NA	Solid	8260D	455199

GC Semi VOA

Analysis Batch: 455023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	OA-2	455049
MB 310-455049/1-A	Method Blank	Total/NA	Solid	OA-2	455049
LCS 310-455049/2-A	Lab Control Sample	Total/NA	Solid	OA-2	455049

Prep Batch: 455049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	3546	
MB 310-455049/1-A	Method Blank	Total/NA	Solid	3546	
LCS 310-455049/2-A	Lab Control Sample	Total/NA	Solid	3546	

Metals

Prep Batch: 454455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	3050B	
MB 310-454455/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 310-454455/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 454756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	7471B	
MB 310-454756/1-A	Method Blank	Total/NA	Solid	7471B	
LCS 310-454756/2-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 454837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	7471B	454756
MB 310-454756/1-A	Method Blank	Total/NA	Solid	7471B	454756
LCS 310-454756/2-A	Lab Control Sample	Total/NA	Solid	7471B	454756

Analysis Batch: 454997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-306411-1	PLF-1 7ft	Total/NA	Solid	6010D	454455
MB 310-454455/1-A	Method Blank	Total/NA	Solid	6010D	454455
LCS 310-454455/2-A	Lab Control Sample	Total/NA	Solid	6010D	454455

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Lab Chronicle

Client: Blackhawk Enviromental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Client Sample ID: PLF-1 7ft
Date Collected: 05/13/25 14:45
Date Received: 05/14/25 18:10

Lab Sample ID: 310-306411-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			455199	MZR8	EET CF	05/20/25 10:47
Total/NA	Analysis	8260D		1	455200	MZR8	EET CF	05/21/25 15:44
Total/NA	Prep	3546			455049	BDJ4	EET CF	05/19/25 09:36
Total/NA	Analysis	OA-2		1	455023	C3AA	EET CF	05/19/25 23:32
Total/NA	Prep	3050B			454455	QTZ5	EET CF	05/15/25 09:00
Total/NA	Analysis	6010D		1	454997	ZRI4	EET CF	05/16/25 15:11
Total/NA	Prep	7471B			454756	F5MW	EET CF	05/15/25 10:56
Total/NA	Analysis	7471B		1	454837	F5MW	EET CF	05/15/25 14:26

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: Blackhawk Enviromental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

1
2
3
4
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14
15

Method Summary

Client: Blackhawk Environmental Testing Inc.
Project/Site: Sun Motor Company, Morning Sun, IA

Job ID: 310-306411-1
SDG: Project # 25584

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
OA-2	Iowa - Extractable Petroleum Hydrocarbons (GC)	Iowa DNR	EET CF
6010D	Metals (ICP)	SW846	EET CF
7471B	Mercury (CVAA)	SW846	EET CF
3050B	Preparation, Metals	SW846	EET CF
3546	Microwave Extraction	SW846	EET CF
5035	Purge and Trap for Methanol Extractions	SW846	EET CF
7471B	Preparation, Mercury	SW846	EET CF

Protocol References:

Iowa DNR = Iowa Department of Natural Resources

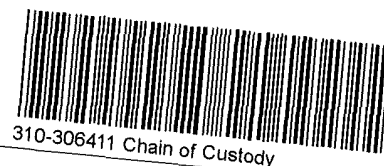
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401



Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>Black Hawk environmental</u>			
City/State: <u>Denver</u>	<u>CO</u>	Project.	
Receipt Information			
Date/Time Received: <u>5/14/25</u>	<u>1810</u>	Received By: <u>XB</u>	
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input checked="" type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____
Multiple Coolers?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____
Cooler Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Sample Custody Seals Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No
Trip Blank Present?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID: <u>U</u>		Correction Factor (°C): <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>3.2</u>		Corrected Temp (°C): <u>3.2</u>	
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>		<u>CONTAINER 2</u>
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			

Client Information		Lab PM:		Carrier Tracking No(s)		COC No:	
Client Contact		Calhoun		Conner M		Page	
Ollie Thurman		E-Mail:		Conner Calhoun@eteurofinsus.com		State of Origin.	
Company		PWSID		Analysis Requested		Job #:	
Blackhawk Environmental Testing Inc.		Due Date Requested.		TAT Requested (days).		Preservation Codes:	
Address:		City		State, Zip:		A - HCL	
PO BOX 85		Denver		IA, 50622-0085		B - NaOH	
Phone:		Compliance Project:		Δ Yes Δ No		C - Zn Acetate	
319-984-6600(Tel)		PO #:				D - Nitric Acid	
Email:		WG #:				E - NaHSO4	
olliethurman@msn.com		Project #:				F - MeOH	
SUN MOTOR COMPANY MORNING SUN IA		31001364				G - Amchlor	
Site:		SSOW#:				H - Ascorbic Acid	
Project # 25584						I - Ice	
Sample Identification		Sample Date		Sample Time		J - DI Water	
PLF-1 787		5/23/25 1445		G S		K - EDTA	
Matrix		Sample Type		Preservation Code:		L - EDA	
(W=water, S=solid, O=water/oil, BT=Tissue, AA=Air)		(C=Comp, G=grab)				Other	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		BTEX-OA1		Total Number of Containers	
RCRA 8 METALS		OAZ		X X X		Special Instructions/Note:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client		Disposal By Lab		Archive For	
Deliverable Requested I II III IV Other (specify)		Poison B		Unknown		Months	
Possible Hazard Identification		Skin Irritant		Flammable		Empty Kit Relinquished by	
Relinquished by		Relinquished by		Relinquished by		Custody Seal No	
Date/Time		Date/Time		Date/Time		Custody Seal Intact:	
5/14/25 1810		5/14/25 1810		5/14/25 1810		A Yes A No	
Company		Company		Company		Cooler Temperature(s) °C and Other Remarks:	
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/25 1810			
Company		Company		Company			
Received by		Received by		Received by			
Date/Time		Date/Time		Date/Time			
5/14/25 1810		5/14/25 1810		5/14/2			

Login Sample Receipt Checklist

Client: Blackhawk Enviromental Testing Inc.

Job Number: 310-306411-1

SDG Number: Project # 25584

Login Number: 306411

List Number: 1

Creator: Bunker, Xavier M

List Source: Eurofins Cedar Falls

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	