

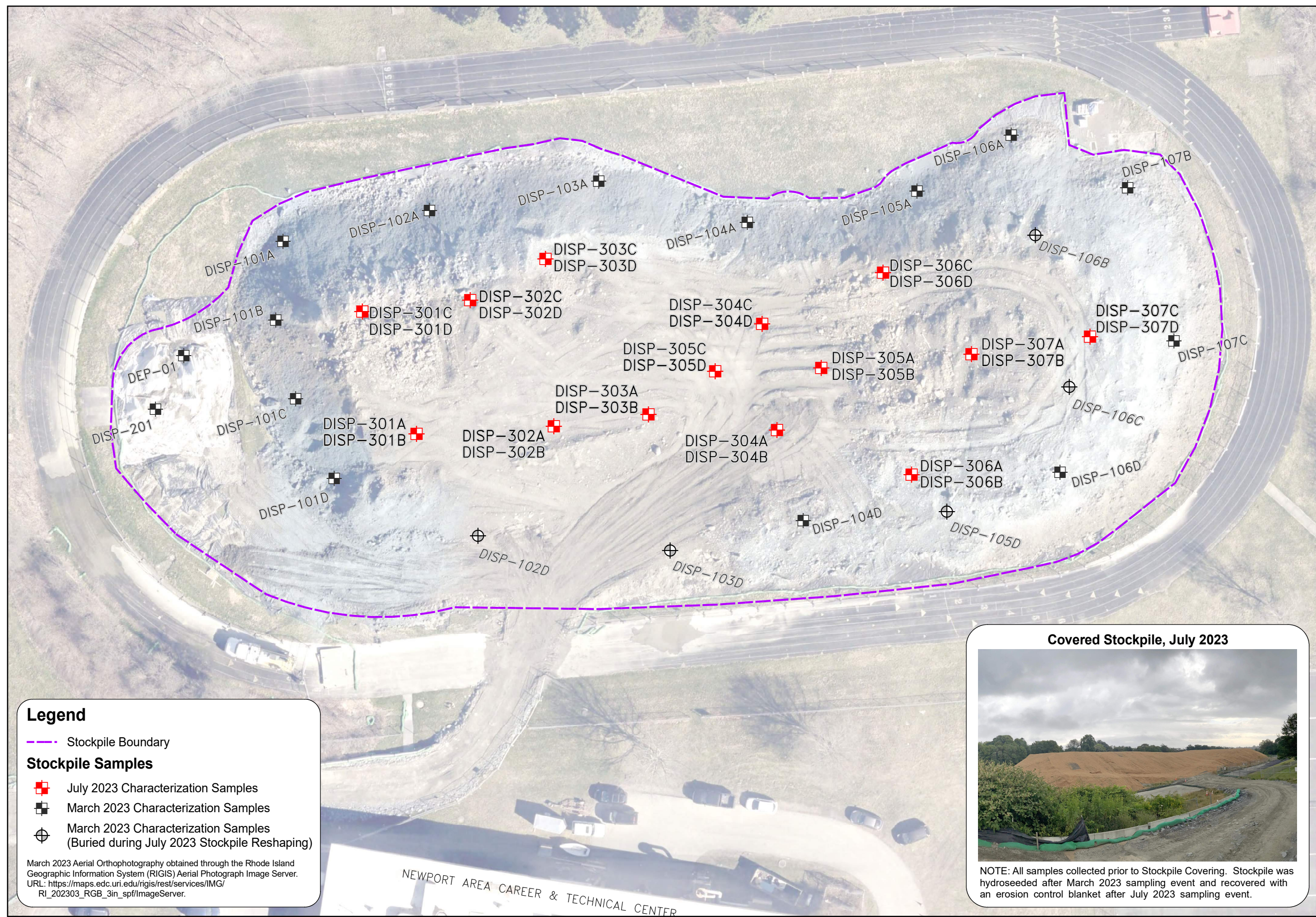
STOCKPILE SAMPLING LOCATIONS

WILLIAM S. ROGERS HIGH SCHOOL
 15 WICKHAM ROAD & 109 OLD FORT ROAD
 NEWPORT, RHODE ISLAND



★ SITE LOCATION

FIGURE 1



Legend

- Stockpile Boundary

Stockpile Samples

- July 2023 Characterization Samples
- March 2023 Characterization Samples
- March 2023 Characterization Samples (Buried during July 2023 Stockpile Reshaping)

March 2023 Aerial Orthophotography obtained through the Rhode Island Geographic Information System (RIGIS) Aerial Photograph Image Server.
 URL: https://maps.edc.uri.edu/rigis/rest/services/IMG/RI_202303_RGB_3in_spf/ImageServer.

Covered Stockpile, July 2023

NOTE: All samples collected prior to Stockpile Covering. Stockpile was hydroseeded after March 2023 sampling event and recovered with an erosion control blanket after July 2023 sampling event.

Stockpile Characterization Summary Table

Proposed School Building Excavation
Rogers High School
Newport, RI

Table with columns for Sample ID, Sample Set Average, and various chemical parameters (Asbestos, PCBs, VOCs, etc.) across multiple sites (DISP-010A to DISP-017C).

Table with columns for Sample ID, Sample Set Average, and various chemical parameters (Asbestos, PCBs, VOCs, etc.) across multiple sites (DISP-301A to DISP-307D).

Summary table for Stockpile Characterization showing Average Concentration, Direct Exposure Criteria (R-DEC, IC-DEC), and GA Groundwater Leachability Criteria (GALC) for various parameters.

Key:
µg/Kg = Concentrations reported in micrograms per kilogram, equivalent to parts per billion.
mg/Kg = Concentrations reported in milligrams per kilogram, equivalent to parts per million.
µg/L = Concentrations reported in milligrams per liter.
NA = Sample not analyzed for this constituent.
ND = Not detected above the laboratory reporting limit (RL).
NE = No regulatory limit has been established for the specified analyte.
= The result or reporting limit exceeds the R-DEC.
= The result or reporting limit exceeds the IC-DEC.
= The result or reporting limit exceeds the R-DEC and IC-DEC.
* GA Leachability Criteria for metals are expressed as the limits applied to an extract of a solid sample analyzed through the Toxicity Characteristic Leaching Procedure (TCLP) or Synthetic Precipitation Leaching Procedure (SPLP) and are only applicable to those metals on which the analysis was performed.

The Stockpile Average consists of the sum of each analyte's reported concentration on 1/2 the laboratory reporting limit where the analyte was not detected divided by the number of samples from the Main Stockpile (18 initial samples from March 2023 & 26 samples from July 2023). The average is provided for informational purposes as a rough representation of the overall stockpile conditions. Values in *italics* consist only of compounds that were not detected in any samples. Certain analytes are not applicable to averages as denoted by "--" in the average column.



CERTIFICATE OF ANALYSIS

Tim Thies
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

RE: Stockpile Characterization (21106.00)
ESS Laboratory Work Order Number: 23G0543

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 6:22 pm, Aug 04, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI

Sieve Analysis



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

SAMPLE RECEIPT

The following samples were received on July 18, 2023 for the analyses specified on the enclosed Chain of Custody Record.

Low Level VOA vials were frozen by ESS Laboratory on July 19, 2023 at 17:58.

The cooler temperature was not within the acceptance limit of <6°C, however, samples were delivered on ice and therefore meet regulatory criteria.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
23G0543-01	DISP-307C	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0543-02	DISP-307D	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0543-03	DISP-307A	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0543-04	DISP-307B	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0543-05	DISP-107C	Soil	SUB
23G0543-06	DISP-107B	Soil	SUB
23G0543-07	DISP-306A	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0543-08	DISP-306B	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0543-09	DISP-306C	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0543-10	DISP-306D	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

DG31932-BS1 Blank Spike recovery is above upper control limit (B+).
Bromomethane (134% @ 70-130%)

8270D Semi-Volatile Organic Compounds

D3G0323-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (129% @ 80-120%), 4,6-Dinitro-2-Methylphenol (126% @ 80-120%), Benzoic Acid (95% @ 80-120%)

D3G0323-CCV1 Continuing Calibration %Diff/Drift is above control limit (CD+).
2,3,4,6-Tetrachlorophenol (25% @ 20%), 2,4-Dinitrophenol (29% @ 20%), 2-Nitroaniline (21% @ 20%), 4,6-Dinitro-2-Methylphenol (26% @ 20%), Di-n-octylphthalate (24% @ 20%), Fluoranthene (23% @ 20%)

D3G0323-TUN1 Benzidine tailing factor >2.

D3G0383-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (127% @ 80-120%), 4,6-Dinitro-2-Methylphenol (136% @ 80-120%), Benzoic Acid (92% @ 80-120%)

D3G0383-CCV1 Continuing Calibration %Diff/Drift is above control limit (CD+).
2,4-Dinitrophenol (27% @ 20%), 4,6-Dinitro-2-Methylphenol (36% @ 20%), Phenol (24% @ 20%)

D3G0417-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (112% @ 80-120%), 4,6-Dinitro-2-Methylphenol (127% @ 80-120%), Benzoic Acid (107% @ 80-120%), Di-n-octylphthalate (109% @ 80-120%)

D3G0417-CCV1 Continuing Calibration %Diff/Drift is above control limit (CD+).
4,6-Dinitro-2-Methylphenol (27% @ 20%)

Total Metals

23G0543-02 Elevated Method Reporting Limits due to sample matrix (EL).
Silver

23G0543-03 Elevated Method Reporting Limits due to sample matrix (EL).
Arsenic

23G0543-04 Elevated Method Reporting Limits due to sample matrix (EL).
Silver

No other observations noted.

End of Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.64 (2.26)		6010C		1	CEV	07/26/23 15:15	2.37	100	DG32458
Barium	35.3 (2.26)		6010C		1	CEV	07/26/23 15:15	2.37	100	DG32458
Cadmium	ND (0.45)		6010C		1	CEV	07/26/23 15:15	2.37	100	DG32458
Chromium	16.3 (1.81)		6010C		2	CEV	07/27/23 9:32	2.37	100	DG32458
Lead	40.3 (9.05)		6010C		2	CEV	07/27/23 9:32	2.37	100	DG32458
Mercury	ND (0.034)		7471B		1	BJV	07/25/23 15:08	0.63	40	DG32513
Selenium	ND (0.45)		6020A		1	NAR	07/27/23 10:11	2.37	100	DG32458
Silver	ND (0.44)		6010C		1	CEV	08/01/23 12:11	2.45	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-307C
 Date Sampled: 07/18/23 12:45
 Percent Solids: 93
 Initial Volume: 4g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,1,1-Trichloroethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,1,2,2-Tetrachloroethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,1,2-Trichloroethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,1-Dichloroethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,1-Dichloroethene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,1-Dichloropropene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2,3-Trichlorobenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2,3-Trichloropropane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2,4-Trichlorobenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2,4-Trimethylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2-Dibromo-3-Chloropropane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2-Dibromoethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2-Dichlorobenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2-Dichloroethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,2-Dichloropropane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,3,5-Trimethylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,3-Dichlorobenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,3-Dichloropropane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,4-Dichlorobenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1,4-Dioxane	ND (0.134)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
1-Chlorohexane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
2,2-Dichloropropane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
2-Butanone	ND (0.0670)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
2-Chlorotoluene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
2-Hexanone	ND (0.0670)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
4-Chlorotoluene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
4-Isopropyltoluene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
4-Methyl-2-Pentanone	ND (0.0670)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Acetone	ND (0.0670)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Benzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Bromobenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93
Initial Volume: 4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Bromodichloromethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Bromoform	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Bromomethane	ND (0.0134)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Carbon Disulfide	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Carbon Tetrachloride	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Chlorobenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Chloroethane	ND (0.0134)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Chloroform	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Chloromethane	ND (0.0134)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
cis-1,2-Dichloroethene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
cis-1,3-Dichloropropene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Dibromochloromethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Dibromomethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Dichlorodifluoromethane	ND (0.0134)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Diethyl Ether	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Di-isopropyl ether	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Ethyl tertiary-butyl ether	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Ethylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Hexachlorobutadiene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Isopropylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Methyl tert-Butyl Ether	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Methylene Chloride	ND (0.0335)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Naphthalene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
n-Butylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
n-Propylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
sec-Butylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Styrene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
tert-Butylbenzene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Tertiary-amyl methyl ether	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Tetrachloroethene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Tetrahydrofuran	ND (0.0268)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-307C
 Date Sampled: 07/18/23 12:45
 Percent Solids: 93
 Initial Volume: 4g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
trans-1,2-Dichloroethene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
trans-1,3-Dichloropropene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Trichloroethene	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Trichlorofluoromethane	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Vinyl Acetate	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Vinyl Chloride	ND (0.0134)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Xylene O	ND (0.0067)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Xylene P,M	ND (0.0134)		8260B Low		1	07/19/23 18:46	D3G0326	DG31932
Xylenes (Total)	ND (0.0134)		8260B Low		1	07/19/23 18:46		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>113 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>100 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>100 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-307C
 Date Sampled: 07/18/23 12:45
 Percent Solids: 93
 Initial Volume: 20.5g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
4,4'-DDE	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
4,4'-DDT	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Aldrin	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
alpha-BHC	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
alpha-Chlordane	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
beta-BHC	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Chlordane (Total)	ND (0.0314)		8081B		1	07/24/23 18:24	D3G0394	DG31908
delta-BHC	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Dieldrin	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Endosulfan I	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Endosulfan II	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Endrin	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Endrin Aldehyde	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Endrin Ketone	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/24/23 18:24	D3G0394	DG31908
gamma-Chlordane	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Heptachlor	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Hexachlorobenzene	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Methoxychlor	ND (0.0026)		8081B		1	07/24/23 18:24	D3G0394	DG31908
Toxaphene	ND (0.131)		8081B		1	07/24/23 18:24	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	76 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	73 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93
Initial Volume: 20.1g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1221	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1232	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1242	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1248	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1254	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1260	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1262	ND (0.05)		8082A		1	07/25/23 5:53		DG32103
Aroclor 1268	ND (0.05)		8082A		1	07/25/23 5:53		DG32103

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>89 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>96 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>93 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>103 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (41.9)		8100M		1	07/24/23 16:52		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		76 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.026)		8270D		1	07/22/23 3:52	D3G0383	DG31858
1,2,4-Trichlorobenzene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
1,2-Dichlorobenzene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
1,3-Dichlorobenzene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
1,4-Dichlorobenzene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,3,4,6-Tetrachlorophenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,4,5-Trichlorophenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,4,6-Trichlorophenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,4-Dichlorophenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,4-Dimethylphenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,4-Dinitrophenol	ND (1.05)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,4-Dinitrotoluene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2,6-Dinitrotoluene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2-Chloronaphthalene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2-Chlorophenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2-Methylnaphthalene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2-Methylphenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2-Nitroaniline	ND (0.526)		8270D		1	07/22/23 3:52	D3G0383	DG31858
2-Nitrophenol	ND (0.526)		8270D		1	07/22/23 3:52	D3G0383	DG31858
3,3'-Dichlorobenzidine	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
3+4-Methylphenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
3-Nitroaniline	ND (0.526)		8270D		1	07/22/23 3:52	D3G0383	DG31858
4,6-Dinitro-2-Methylphenol	ND (1.05)		8270D		1	07/22/23 3:52	D3G0383	DG31858
4-Bromophenyl-phenylether	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
4-Chloro-3-Methylphenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
4-Chloroaniline	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
4-Chloro-phenyl-phenyl ether	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
4-Nitroaniline	ND (0.526)		8270D		1	07/22/23 3:52	D3G0383	DG31858
4-Nitrophenol	ND (1.05)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Acenaphthene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Acenaphthylene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Acetophenone	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Anthracene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Azobenzene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Benzo(a)anthracene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Benzo(a)pyrene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Benzo(b)fluoranthene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Benzo(g,h,i)perylene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Benzo(k)fluoranthene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Benzoic Acid	ND (2.63)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Benzyl Alcohol	ND (0.526)		8270D		1	07/22/23 3:52	D3G0383	DG31858
bis(2-Chloroethoxy)methane	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
bis(2-Chloroethyl)ether	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
bis(2-chloroisopropyl)Ether	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
bis(2-Ethylhexyl)phthalate	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Butylbenzylphthalate	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Carbazole	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Chrysene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Dibenzo(a,h)Anthracene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Dibenzofuran	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Diethylphthalate	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Dimethylphthalate	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Di-n-butylphthalate	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Di-n-octylphthalate	ND (0.526)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Fluoranthene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Fluorene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Hexachlorobenzene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Hexachlorobutadiene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Hexachlorocyclopentadiene	ND (0.526)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Hexachloroethane	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Indeno(1,2,3-cd)Pyrene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Isophorone	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Naphthalene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
N-Nitrosodimethylamine	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
N-Nitroso-Di-n-Propylamine	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
N-nitrosodiphenylamine	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Pentachlorophenol	ND (1.05)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Phenanthrene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Phenol	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Pyrene	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858
Pyridine	ND (0.263)		8270D		1	07/22/23 3:52	D3G0383	DG31858

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	98 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	104 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	99 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	105 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	97 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	106 %		30-130
<i>Surrogate: Phenol-d6</i>	102 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	122 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45
Percent Solids: 93

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 198 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	8.17 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32032



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307C
Date Sampled: 07/18/23 12:45

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-01
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.90 (2.26)		6010C		1	CEV	07/26/23 15:26	2.44	100	DG32458
Barium	47.8 (2.26)		6010C		1	CEV	07/26/23 15:26	2.44	100	DG32458
Cadmium	ND (0.45)		6010C		1	CEV	07/26/23 15:26	2.44	100	DG32458
Chromium	11.7 (0.90)		6010C		1	CEV	07/26/23 15:26	2.44	100	DG32458
Lead	94.6 (4.51)		6010C		1	CEV	07/26/23 15:26	2.44	100	DG32458
Mercury	0.056 (0.035)		7471B		1	BJV	07/25/23 15:10	0.62	40	DG32513
Selenium	ND (4.51)		6010C		1	CEV	07/26/23 15:26	2.44	100	DG32458
Silver	EL ND (1.72)		6010C		4	CEV	08/01/23 20:19	2.56	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 4.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,1,1-Trichloroethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,1,2,2-Tetrachloroethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,1,2-Trichloroethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,1-Dichloroethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,1-Dichloroethene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,1-Dichloropropene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2,3-Trichlorobenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2,3-Trichloropropane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2,4-Trichlorobenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2,4-Trimethylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2-Dibromo-3-Chloropropane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2-Dibromoethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2-Dichlorobenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2-Dichloroethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,2-Dichloropropane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,3,5-Trimethylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,3-Dichlorobenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,3-Dichloropropane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,4-Dichlorobenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1,4-Dioxane	ND (0.120)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
1-Chlorohexane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
2,2-Dichloropropane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
2-Butanone	ND (0.0599)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
2-Chlorotoluene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
2-Hexanone	ND (0.0599)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
4-Chlorotoluene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
4-Isopropyltoluene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
4-Methyl-2-Pentanone	ND (0.0599)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Acetone	ND (0.0599)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Benzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Bromobenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-307D
 Date Sampled: 07/18/23 12:50
 Percent Solids: 91
 Initial Volume: 4.6g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-02
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Bromodichloromethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Bromoform	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Bromomethane	ND (0.0120)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Carbon Disulfide	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Carbon Tetrachloride	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Chlorobenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Chloroethane	ND (0.0120)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Chloroform	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Chloromethane	ND (0.0120)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
cis-1,2-Dichloroethene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
cis-1,3-Dichloropropene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Dibromochloromethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Dibromomethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Dichlorodifluoromethane	ND (0.0120)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Diethyl Ether	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Di-isopropyl ether	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Ethyl tertiary-butyl ether	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Ethylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Hexachlorobutadiene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Isopropylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Methyl tert-Butyl Ether	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Methylene Chloride	ND (0.0299)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Naphthalene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
n-Butylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
n-Propylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
sec-Butylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Styrene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
tert-Butylbenzene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Tertiary-amyl methyl ether	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Tetrachloroethene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Tetrahydrofuran	ND (0.0239)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 4.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
trans-1,2-Dichloroethene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
trans-1,3-Dichloropropene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Trichloroethene	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Trichlorofluoromethane	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Vinyl Acetate	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Vinyl Chloride	ND (0.0120)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Xylene O	ND (0.0060)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Xylene P,M	ND (0.0120)		8260B Low		1	07/19/23 19:12	D3G0326	DG31932
Xylenes (Total)	ND (0.0120)		8260B Low		1	07/19/23 19:12		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>113 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>88 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>101 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 20.4g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
4,4'-DDE	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
4,4'-DDT	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Aldrin	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
alpha-BHC	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
alpha-Chlordane [2C]	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
beta-BHC	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Chlordane (Total)	ND (0.0324)		8081B		1	07/24/23 18:55	D3G0394	DG31908
delta-BHC	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Dieldrin	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Endosulfan I	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Endosulfan II	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Endrin	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Endrin Aldehyde	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Endrin Ketone	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/24/23 18:55	D3G0394	DG31908
gamma-Chlordane	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Heptachlor	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Hexachlorobenzene	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Methoxychlor	ND (0.0027)		8081B		1	07/24/23 18:55	D3G0394	DG31908
Toxaphene	ND (0.135)		8081B		1	07/24/23 18:55	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	71 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	73 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	63 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	65 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 20g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1260	0.2 (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 6:12		DG32103
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 6:12		DG32103

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	75 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	91 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	112 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 20.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	103 (39.5)		8100M		1	07/24/23 17:36		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		88 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 19.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/22/23 4:23	D3G0383	DG31858
1,2,4-Trichlorobenzene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
1,2-Dichlorobenzene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
1,3-Dichlorobenzene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
1,4-Dichlorobenzene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,3,4,6-Tetrachlorophenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,4,5-Trichlorophenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,4,6-Trichlorophenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,4-Dichlorophenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,4-Dimethylphenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,4-Dinitrophenol	ND (1.11)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,4-Dinitrotoluene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2,6-Dinitrotoluene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2-Chloronaphthalene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2-Chlorophenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2-Methylnaphthalene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2-Methylphenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2-Nitroaniline	ND (0.553)		8270D		1	07/22/23 4:23	D3G0383	DG31858
2-Nitrophenol	ND (0.553)		8270D		1	07/22/23 4:23	D3G0383	DG31858
3,3'-Dichlorobenzidine	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
3+4-Methylphenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
3-Nitroaniline	ND (0.553)		8270D		1	07/22/23 4:23	D3G0383	DG31858
4,6-Dinitro-2-Methylphenol	ND (1.11)		8270D		1	07/22/23 4:23	D3G0383	DG31858
4-Bromophenyl-phenylether	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
4-Chloro-3-Methylphenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
4-Chloroaniline	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
4-Chloro-phenyl-phenyl ether	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
4-Nitroaniline	ND (0.553)		8270D		1	07/22/23 4:23	D3G0383	DG31858
4-Nitrophenol	ND (1.11)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Acenaphthene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Acenaphthylene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Acetophenone	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 19.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Anthracene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Azobenzene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Benzo(a)anthracene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Benzo(a)pyrene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Benzo(b)fluoranthene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Benzo(g,h,i)perylene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Benzo(k)fluoranthene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Benzoic Acid	ND (2.77)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Benzyl Alcohol	ND (0.553)		8270D		1	07/22/23 4:23	D3G0383	DG31858
bis(2-Chloroethoxy)methane	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
bis(2-Chloroethyl)ether	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
bis(2-chloroisopropyl)Ether	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
bis(2-Ethylhexyl)phthalate	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Butylbenzylphthalate	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Carbazole	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Chrysene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Dibenzo(a,h)Anthracene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Dibenzofuran	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Diethylphthalate	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Dimethylphthalate	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Di-n-butylphthalate	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Di-n-octylphthalate	ND (0.553)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Fluoranthene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Fluorene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Hexachlorobenzene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Hexachlorobutadiene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Hexachlorocyclopentadiene	ND (0.553)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Hexachloroethane	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Indeno(1,2,3-cd)Pyrene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Isophorone	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Naphthalene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91
Initial Volume: 19.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
N-Nitrosodimethylamine	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
N-Nitroso-Di-n-Propylamine	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
N-nitrosodiphenylamine	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Pentachlorophenol	ND (1.11)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Phenanthrene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Phenol	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Pyrene	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858
Pyridine	ND (0.277)		8270D		1	07/22/23 4:23	D3G0383	DG31858

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	96 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	93 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	97 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	101 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	87 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	100 %		30-130
<i>Surrogate: Phenol-d6</i>	102 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	125 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50
Percent Solids: 91

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 352 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.96 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32032



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307D
Date Sampled: 07/18/23 12:50

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-02
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	EL ND (4.02)		6010C		2	CEV	08/01/23 20:22	2.7	100	DG33109
Barium	26.3 (2.28)		6010C		1	CEV	07/26/23 15:28	2.38	100	DG32458
Cadmium	ND (0.40)		6010C		1	CEV	08/01/23 12:37	2.7	100	DG33109
Chromium	12.2 (1.61)		6010C		2	CEV	08/01/23 20:22	2.7	100	DG33109
Lead	8.84 (8.04)		6010C		2	CEV	08/01/23 20:22	2.7	100	DG33109
Mercury	ND (0.034)		7471B		1	BJV	07/25/23 15:12	0.64	40	DG32513
Selenium	ND (0.46)		6020A		1	NAR	07/27/23 10:50	2.38	100	DG32458
Silver	ND (0.80)		6010C		2	CEV	08/01/23 20:22	2.7	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 5.5g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,1,1-Trichloroethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,1,2,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,1,2-Trichloroethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,1-Dichloroethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,1-Dichloroethene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,1-Dichloropropene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2,3-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2,3-Trichloropropane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2,4-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2,4-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2-Dibromo-3-Chloropropane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2-Dibromoethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2-Dichloroethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,3,5-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,3-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,3-Dichloropropane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,4-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1,4-Dioxane	ND (0.0987)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
1-Chlorohexane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
2,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
2-Butanone	ND (0.0493)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
2-Chlorotoluene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
2-Hexanone	ND (0.0493)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
4-Chlorotoluene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
4-Isopropyltoluene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
4-Methyl-2-Pentanone	ND (0.0493)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Acetone	ND (0.0493)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Benzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Bromobenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 5.5g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Bromodichloromethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Bromoform	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Bromomethane	ND (0.0099)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Carbon Disulfide	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Carbon Tetrachloride	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Chlorobenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Chloroethane	ND (0.0099)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Chloroform	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Chloromethane	ND (0.0099)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
cis-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
cis-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Dibromochloromethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Dibromomethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Dichlorodifluoromethane	ND (0.0099)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Diethyl Ether	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Di-isopropyl ether	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Ethyl tertiary-butyl ether	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Ethylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Hexachlorobutadiene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Isopropylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Methyl tert-Butyl Ether	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Methylene Chloride	ND (0.0247)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Naphthalene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
n-Butylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
n-Propylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
sec-Butylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Styrene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
tert-Butylbenzene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Tertiary-amyl methyl ether	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Tetrachloroethene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Tetrahydrofuran	ND (0.0197)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-307A
 Date Sampled: 07/18/23 13:10
 Percent Solids: 92
 Initial Volume: 5.5g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-03
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
trans-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
trans-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Trichloroethene	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Trichlorofluoromethane	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Vinyl Acetate	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Vinyl Chloride	ND (0.0099)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Xylene O	ND (0.0049)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Xylene P,M	ND (0.0099)		8260B Low		1	07/19/23 12:22	D3G0329	DG31935
Xylenes (Total)	ND (0.00987)		8260B Low		1	07/19/23 12:22		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	94 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	95 %		70-130
<i>Surrogate: Toluene-d8</i>	94 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 20.5g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
4,4'-DDE	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
4,4'-DDT	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Aldrin	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
alpha-BHC	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
alpha-Chlordane	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
beta-BHC	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Chlordane (Total)	ND (0.0318)		8081B		1	07/24/23 19:25	D3G0394	DG31908
delta-BHC	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Dieldrin	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Endosulfan I	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Endosulfan II	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Endrin	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Endrin Aldehyde	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Endrin Ketone	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/24/23 19:25	D3G0394	DG31908
gamma-Chlordane	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Heptachlor	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Hexachlorobenzene	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Methoxychlor	ND (0.0026)		8081B		1	07/24/23 19:25	D3G0394	DG31908
Toxaphene	ND (0.132)		8081B		1	07/24/23 19:25	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	82 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	83 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	82 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 20g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1221	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1232	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1242	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1248	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1254	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1260	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1262	ND (0.05)		8082A		1	07/25/23 6:31		DG32103
Aroclor 1268	ND (0.05)		8082A		1	07/25/23 6:31		DG32103

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	65 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	68 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	73 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 20.7g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (39.3)		8100M		1	07/24/23 18:20		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		83 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/22/23 4:54	D3G0383	DG31858
1,2,4-Trichlorobenzene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
1,2-Dichlorobenzene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
1,3-Dichlorobenzene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
1,4-Dichlorobenzene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,3,4,6-Tetrachlorophenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,4,5-Trichlorophenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,4,6-Trichlorophenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,4-Dichlorophenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,4-Dimethylphenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,4-Dinitrophenol	ND (1.08)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,4-Dinitrotoluene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2,6-Dinitrotoluene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2-Chloronaphthalene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2-Chlorophenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2-Methylnaphthalene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2-Methylphenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2-Nitroaniline	ND (0.540)		8270D		1	07/22/23 4:54	D3G0383	DG31858
2-Nitrophenol	ND (0.540)		8270D		1	07/22/23 4:54	D3G0383	DG31858
3,3'-Dichlorobenzidine	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
3+4-Methylphenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
3-Nitroaniline	ND (0.540)		8270D		1	07/22/23 4:54	D3G0383	DG31858
4,6-Dinitro-2-Methylphenol	ND (1.08)		8270D		1	07/22/23 4:54	D3G0383	DG31858
4-Bromophenyl-phenylether	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
4-Chloro-3-Methylphenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
4-Chloroaniline	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
4-Chloro-phenyl-phenyl ether	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
4-Nitroaniline	ND (0.540)		8270D		1	07/22/23 4:54	D3G0383	DG31858
4-Nitrophenol	ND (1.08)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Acenaphthene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Acenaphthylene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Acetophenone	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Anthracene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Azobenzene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Benzo(a)anthracene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Benzo(a)pyrene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Benzo(b)fluoranthene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Benzo(g,h,i)perylene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Benzo(k)fluoranthene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Benzoic Acid	ND (2.70)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Benzyl Alcohol	ND (0.540)		8270D		1	07/22/23 4:54	D3G0383	DG31858
bis(2-Chloroethoxy)methane	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
bis(2-Chloroethyl)ether	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
bis(2-chloroisopropyl)Ether	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
bis(2-Ethylhexyl)phthalate	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Butylbenzylphthalate	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Carbazole	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Chrysene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Dibenzo(a,h)Anthracene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Dibenzofuran	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Diethylphthalate	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Dimethylphthalate	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Di-n-butylphthalate	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Di-n-octylphthalate	ND (0.540)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Fluoranthene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Fluorene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Hexachlorobenzene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Hexachlorobutadiene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Hexachlorocyclopentadiene	ND (0.540)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Hexachloroethane	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Indeno(1,2,3-cd)Pyrene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Isophorone	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Naphthalene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/18/23 20:48

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
N-Nitrosodimethylamine	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
N-Nitroso-Di-n-Propylamine	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
N-nitrosodiphenylamine	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Pentachlorophenol	ND (1.08)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Phenanthrene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Phenol	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Pyrene	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858
Pyridine	ND (0.270)		8270D		1	07/22/23 4:54	D3G0383	DG31858

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>99 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>97 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>105 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>96 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>105 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>99 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>125 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10
Percent Solids: 92

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 81 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.37 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32032



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307A
Date Sampled: 07/18/23 13:10

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-03
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.93 (2.52)		6010C		1	CEV	07/26/23 15:30	2.24	100	DG32458
Barium	74.5 (2.52)		6010C		1	CEV	07/26/23 15:30	2.24	100	DG32458
Cadmium	ND (0.50)		6010C		1	CEV	07/26/23 15:30	2.24	100	DG32458
Chromium	14.7 (1.01)		6010C		1	CEV	07/26/23 15:30	2.24	100	DG32458
Lead	120 (5.04)		6010C		1	CEV	07/26/23 15:30	2.24	100	DG32458
Mercury	0.065 (0.034)		7471B		1	BJV	07/25/23 15:14	0.65	40	DG32513
Selenium	ND (5.04)		6010C		1	CEV	07/26/23 15:30	2.24	100	DG32458
Silver	EL ND (1.61)		6010C		4	CEV	08/01/23 20:24	2.8	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 5.3g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,1,1-Trichloroethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,1,2,2-Tetrachloroethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,1,2-Trichloroethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,1-Dichloroethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,1-Dichloroethene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,1-Dichloropropene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2,3-Trichlorobenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2,3-Trichloropropane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2,4-Trichlorobenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2,4-Trimethylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2-Dibromo-3-Chloropropane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2-Dibromoethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2-Dichlorobenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2-Dichloroethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,2-Dichloropropane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,3,5-Trimethylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,3-Dichlorobenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,3-Dichloropropane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,4-Dichlorobenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1,4-Dioxane	ND (0.106)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
1-Chlorohexane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
2,2-Dichloropropane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
2-Butanone	ND (0.0532)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
2-Chlorotoluene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
2-Hexanone	ND (0.0532)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
4-Chlorotoluene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
4-Isopropyltoluene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
4-Methyl-2-Pentanone	ND (0.0532)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Acetone	ND (0.0532)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Benzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Bromobenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 5.3g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Bromodichloromethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Bromoform	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Bromomethane	ND (0.0106)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Carbon Disulfide	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Carbon Tetrachloride	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Chlorobenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Chloroethane	ND (0.0106)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Chloroform	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Chloromethane	ND (0.0106)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
cis-1,2-Dichloroethene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
cis-1,3-Dichloropropene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Dibromochloromethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Dibromomethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Dichlorodifluoromethane	ND (0.0106)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Diethyl Ether	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Di-isopropyl ether	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Ethyl tertiary-butyl ether	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Ethylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Hexachlorobutadiene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Isopropylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Methyl tert-Butyl Ether	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Methylene Chloride	ND (0.0266)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Naphthalene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
n-Butylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
n-Propylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
sec-Butylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Styrene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
tert-Butylbenzene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Tertiary-amyl methyl ether	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Tetrachloroethene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Tetrahydrofuran	ND (0.0213)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 5.3g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
trans-1,2-Dichloroethene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
trans-1,3-Dichloropropene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Trichloroethene	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Trichlorofluoromethane	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Vinyl Acetate	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Vinyl Chloride	ND (0.0106)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Xylene O	ND (0.0053)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Xylene P,M	ND (0.0106)		8260B Low		1	07/19/23 12:48	D3G0329	DG31935
Xylenes (Total)	ND (0.0106)		8260B Low		1	07/19/23 12:48		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	102 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	96 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	97 %		70-130
<i>Surrogate: Toluene-d8</i>	95 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 19.1g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
4,4'-DDE	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
4,4'-DDT	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Aldrin	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
alpha-BHC	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
alpha-Chlordane	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
beta-BHC	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Chlordane (Total)	ND (0.0354)		8081B		1	07/24/23 19:55	D3G0394	DG31908
delta-BHC	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Dieldrin	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Endosulfan I	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Endosulfan II	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Endrin	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Endrin Aldehyde	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Endrin Ketone	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0018)		8081B		1	07/24/23 19:55	D3G0394	DG31908
gamma-Chlordane	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Heptachlor	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Hexachlorobenzene	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Methoxychlor	ND (0.0030)		8081B		1	07/24/23 19:55	D3G0394	DG31908
Toxaphene	ND (0.148)		8081B		1	07/24/23 19:55	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>80 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>81 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>74 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>75 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 20.1g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 6:51		DG32103
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 6:51		DG32103

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	69 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	73 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	92 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 20.7g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (40.9)		8100M		1	07/24/23 19:03		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>81 %</i>		<i>40-140</i>				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.030)		8270D		1	07/22/23 5:24	D3G0383	DG31953
1,2,4-Trichlorobenzene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
1,2-Dichlorobenzene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
1,3-Dichlorobenzene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
1,4-Dichlorobenzene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,3,4,6-Tetrachlorophenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,4,5-Trichlorophenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,4,6-Trichlorophenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,4-Dichlorophenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,4-Dimethylphenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,4-Dinitrophenol	ND (1.18)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,4-Dinitrotoluene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2,6-Dinitrotoluene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2-Chloronaphthalene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2-Chlorophenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2-Methylnaphthalene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2-Methylphenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2-Nitroaniline	ND (0.591)		8270D		1	07/22/23 5:24	D3G0383	DG31953
2-Nitrophenol	ND (0.591)		8270D		1	07/22/23 5:24	D3G0383	DG31953
3,3'-Dichlorobenzidine	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
3+4-Methylphenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
3-Nitroaniline	ND (0.591)		8270D		1	07/22/23 5:24	D3G0383	DG31953
4,6-Dinitro-2-Methylphenol	ND (1.18)		8270D		1	07/22/23 5:24	D3G0383	DG31953
4-Bromophenyl-phenylether	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
4-Chloro-3-Methylphenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
4-Chloroaniline	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
4-Chloro-phenyl-phenyl ether	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
4-Nitroaniline	ND (0.591)		8270D		1	07/22/23 5:24	D3G0383	DG31953
4-Nitrophenol	ND (1.18)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Acenaphthene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Acenaphthylene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Acetophenone	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Anthracene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Azobenzene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Benzo(a)anthracene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Benzo(a)pyrene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Benzo(b)fluoranthene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Benzo(g,h,i)perylene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Benzo(k)fluoranthene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Benzoic Acid	ND (2.95)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Benzyl Alcohol	ND (0.591)		8270D		1	07/22/23 5:24	D3G0383	DG31953
bis(2-Chloroethoxy)methane	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
bis(2-Chloroethyl)ether	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
bis(2-chloroisopropyl)Ether	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
bis(2-Ethylhexyl)phthalate	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Butylbenzylphthalate	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Carbazole	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Chrysene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Dibenzo(a,h)Anthracene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Dibenzofuran	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Diethylphthalate	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Dimethylphthalate	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Di-n-butylphthalate	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Di-n-octylphthalate	ND (0.591)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Fluoranthene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Fluorene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Hexachlorobenzene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Hexachlorobutadiene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Hexachlorocyclopentadiene	ND (0.591)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Hexachloroethane	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Indeno(1,2,3-cd)Pyrene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Isophorone	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Naphthalene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
N-Nitrosodimethylamine	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
N-Nitroso-Di-n-Propylamine	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
N-nitrosodiphenylamine	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Pentachlorophenol	ND (1.18)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Phenanthrene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Phenol	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Pyrene	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953
Pyridine	ND (0.295)		8270D		1	07/22/23 5:24	D3G0383	DG31953

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>91 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>83 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>92 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>91 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>88 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>93 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>93 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>117 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20
Percent Solids: 89

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 243 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.43 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32032



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-307B
Date Sampled: 07/18/23 13:20

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-04
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-107C
Date Sampled: 07/18/23 13:30

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-05
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-107B
Date Sampled: 07/18/23 13:40

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-06
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.58 (2.50)		6010C		1	CEV	07/26/23 15:32	2.26	100	DG32458
Barium	100 (2.50)		6010C		1	CEV	07/26/23 15:32	2.26	100	DG32458
Cadmium	ND (0.50)		6010C		1	CEV	07/26/23 15:32	2.26	100	DG32458
Chromium	14.9 (2.00)		6010C		2	CEV	07/27/23 9:54	2.26	100	DG32458
Lead	244 (10.0)		6010C		2	CEV	07/27/23 9:54	2.26	100	DG32458
Mercury	0.146 (0.033)		7471B		1	BJV	07/25/23 15:16	0.67	40	DG32513
Selenium	ND (0.50)		6020A		1	NAR	07/27/23 10:56	2.26	100	DG32458
Silver	ND (0.91)		6010C		2	CEV	08/01/23 20:26	2.47	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,1,1-Trichloroethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,1,2,2-Tetrachloroethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,1,2-Trichloroethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,1-Dichloroethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,1-Dichloroethene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,1-Dichloropropene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2,3-Trichlorobenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2,3-Trichloropropane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2,4-Trichlorobenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2,4-Trimethylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2-Dibromoethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2-Dichlorobenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2-Dichloroethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,2-Dichloropropane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,3,5-Trimethylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,3-Dichlorobenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,3-Dichloropropane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,4-Dichlorobenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1,4-Dioxane	ND (0.101)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
1-Chlorohexane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
2,2-Dichloropropane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
2-Butanone	ND (0.0504)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
2-Chlorotoluene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
2-Hexanone	ND (0.0504)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
4-Chlorotoluene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
4-Isopropyltoluene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
4-Methyl-2-Pentanone	ND (0.0504)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Acetone	ND (0.0504)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Benzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Bromobenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Bromodichloromethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Bromoform	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Bromomethane	ND (0.0101)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Carbon Disulfide	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Carbon Tetrachloride	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Chlorobenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Chloroethane	ND (0.0101)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Chloroform	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Chloromethane	ND (0.0101)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
cis-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
cis-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Dibromochloromethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Dibromomethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Dichlorodifluoromethane	ND (0.0101)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Diethyl Ether	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Di-isopropyl ether	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Ethyl tertiary-butyl ether	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Ethylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Hexachlorobutadiene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Isopropylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Methyl tert-Butyl Ether	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Methylene Chloride	ND (0.0252)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Naphthalene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
n-Butylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
n-Propylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
sec-Butylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Styrene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
tert-Butylbenzene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Tertiary-amyl methyl ether	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Tetrachloroethene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Tetrahydrofuran	ND (0.0202)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
trans-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
trans-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Trichloroethene	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Trichlorofluoromethane	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Vinyl Acetate	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Vinyl Chloride	ND (0.0101)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Xylene O	ND (0.0050)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Xylene P,M	ND (0.0101)		8260B Low		1	07/19/23 13:13	D3G0329	DG31935
Xylenes (Total)	ND (0.0101)		8260B Low		1	07/19/23 13:13		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>95 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-306A
 Date Sampled: 07/18/23 14:05
 Percent Solids: 89
 Initial Volume: 19.1g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-07
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD [2C]	0.0506 (0.0148)		8081B		5	07/24/23 20:55	D3G0394	DG31908
4,4'-DDE	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
4,4'-DDT [2C]	0.0999 (0.0148)		8081B		5	07/24/23 20:55	D3G0394	DG31908
Aldrin	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
alpha-BHC	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
alpha-Chlordane	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
beta-BHC	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Chlordane (Total)	ND (0.0355)		8081B		1	07/24/23 20:25	D3G0394	DG31908
delta-BHC	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Dieldrin	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Endosulfan I	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Endosulfan II	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Endrin	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Endrin Aldehyde	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Endrin Ketone	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0018)		8081B		1	07/24/23 20:25	D3G0394	DG31908
gamma-Chlordane	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Heptachlor	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Hexachlorobenzene	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Methoxychlor	ND (0.0030)		8081B		1	07/24/23 20:25	D3G0394	DG31908
Toxaphene	ND (0.148)		8081B		1	07/24/23 20:25	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	74 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	76 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	69 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 19.9g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 7:10		DG32103
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 7:10		DG32103

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	76 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	108 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.5)		8100M		1	07/24/23 19:49		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		87 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 20.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/22/23 5:55	D3G0383	DG31953
1,2,4-Trichlorobenzene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
1,2-Dichlorobenzene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
1,3-Dichlorobenzene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
1,4-Dichlorobenzene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,3,4,6-Tetrachlorophenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,4,5-Trichlorophenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,4,6-Trichlorophenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,4-Dichlorophenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,4-Dimethylphenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,4-Dinitrophenol	ND (1.08)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,4-Dinitrotoluene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2,6-Dinitrotoluene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2-Chloronaphthalene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2-Chlorophenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2-Methylnaphthalene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2-Methylphenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2-Nitroaniline	ND (0.541)		8270D		1	07/22/23 5:55	D3G0383	DG31953
2-Nitrophenol	ND (0.541)		8270D		1	07/22/23 5:55	D3G0383	DG31953
3,3'-Dichlorobenzidine	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
3+4-Methylphenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
3-Nitroaniline	ND (0.541)		8270D		1	07/22/23 5:55	D3G0383	DG31953
4,6-Dinitro-2-Methylphenol	ND (1.08)		8270D		1	07/22/23 5:55	D3G0383	DG31953
4-Bromophenyl-phenylether	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
4-Chloro-3-Methylphenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
4-Chloroaniline	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
4-Chloro-phenyl-phenyl ether	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
4-Nitroaniline	ND (0.541)		8270D		1	07/22/23 5:55	D3G0383	DG31953
4-Nitrophenol	ND (1.08)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Acenaphthene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Acenaphthylene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Acetophenone	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 20.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Anthracene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Azobenzene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Benzo(a)anthracene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Benzo(a)pyrene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Benzo(b)fluoranthene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Benzo(g,h,i)perylene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Benzo(k)fluoranthene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Benzoic Acid	ND (2.70)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Benzyl Alcohol	ND (0.541)		8270D		1	07/22/23 5:55	D3G0383	DG31953
bis(2-Chloroethoxy)methane	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
bis(2-Chloroethyl)ether	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
bis(2-chloroisopropyl)Ether	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
bis(2-Ethylhexyl)phthalate	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Butylbenzylphthalate	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Carbazole	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Chrysene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Dibenzo(a,h)Anthracene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Dibenzofuran	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Diethylphthalate	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Dimethylphthalate	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Di-n-butylphthalate	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Di-n-octylphthalate	ND (0.541)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Fluoranthene	0.274 (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Fluorene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Hexachlorobenzene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Hexachlorobutadiene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Hexachlorocyclopentadiene	ND (0.541)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Hexachloroethane	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Indeno(1,2,3-cd)Pyrene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Isophorone	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Naphthalene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89
Initial Volume: 20.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
N-Nitrosodimethylamine	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
N-Nitroso-Di-n-Propylamine	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
N-nitrosodiphenylamine	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Pentachlorophenol	ND (1.08)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Phenanthrene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Phenol	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Pyrene	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953
Pyridine	ND (0.270)		8270D		1	07/22/23 5:55	D3G0383	DG31953

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>97 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>96 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>95 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>103 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>93 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>102 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>99 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>119 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05
Percent Solids: 89

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 311 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.91 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.1 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32032



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306A
Date Sampled: 07/18/23 14:05

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-07
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	5.17 (2.51)		6010C		1	CEV	07/26/23 15:34	2.22	100	DG32458
Barium	79.6 (2.51)		6010C		1	CEV	07/26/23 15:34	2.22	100	DG32458
Cadmium	ND (0.50)		6010C		1	CEV	07/26/23 15:34	2.22	100	DG32458
Chromium	12.6 (1.00)		6010C		1	CEV	07/26/23 15:34	2.22	100	DG32458
Lead	192 (5.01)		6010C		1	CEV	07/26/23 15:34	2.22	100	DG32458
Mercury	0.077 (0.036)		7471B		1	BJV	07/25/23 15:18	0.61	40	DG32513
Selenium	ND (5.01)		6010C		1	CEV	07/26/23 15:34	2.22	100	DG32458
Silver	ND (0.89)		6010C		2	CEV	08/01/23 20:28	2.5	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90
Initial Volume: 6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,1,1-Trichloroethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,1,2,2-Tetrachloroethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,1,2-Trichloroethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,1-Dichloroethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,1-Dichloroethene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,1-Dichloropropene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2,3-Trichlorobenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2,3-Trichloropropane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2,4-Trichlorobenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2,4-Trimethylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2-Dibromo-3-Chloropropane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2-Dibromoethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2-Dichlorobenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2-Dichloroethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,2-Dichloropropane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,3,5-Trimethylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,3-Dichlorobenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,3-Dichloropropane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,4-Dichlorobenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1,4-Dioxane	ND (0.0927)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
1-Chlorohexane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
2,2-Dichloropropane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
2-Butanone	ND (0.0464)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
2-Chlorotoluene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
2-Hexanone	ND (0.0464)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
4-Chlorotoluene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
4-Isopropyltoluene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
4-Methyl-2-Pentanone	ND (0.0464)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Acetone	ND (0.0464)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Benzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Bromobenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-306B
 Date Sampled: 07/18/23 14:20
 Percent Solids: 90
 Initial Volume: 6g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-08
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Bromodichloromethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Bromoform	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Bromomethane	ND (0.0093)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Carbon Disulfide	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Carbon Tetrachloride	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Chlorobenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Chloroethane	ND (0.0093)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Chloroform	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Chloromethane	ND (0.0093)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
cis-1,2-Dichloroethene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
cis-1,3-Dichloropropene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Dibromochloromethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Dibromomethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Dichlorodifluoromethane	ND (0.0093)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Diethyl Ether	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Di-isopropyl ether	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Ethyl tertiary-butyl ether	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Ethylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Hexachlorobutadiene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Isopropylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Methyl tert-Butyl Ether	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Methylene Chloride	ND (0.0232)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Naphthalene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
n-Butylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
n-Propylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
sec-Butylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Styrene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
tert-Butylbenzene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Tertiary-amyl methyl ether	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Tetrachloroethene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Tetrahydrofuran	ND (0.0185)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90
Initial Volume: 6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
trans-1,2-Dichloroethene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
trans-1,3-Dichloropropene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Trichloroethene	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Trichlorofluoromethane	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Vinyl Acetate	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Vinyl Chloride	ND (0.0093)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Xylene O	ND (0.0046)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Xylene P,M	ND (0.0093)		8260B Low		1	07/19/23 13:49	D3G0329	DG31935
Xylenes (Total)	ND (0.00927)		8260B Low		1	07/19/23 13:49		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	107 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	97 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	99 %		70-130
<i>Surrogate: Toluene-d8</i>	94 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-306B
 Date Sampled: 07/18/23 14:20
 Percent Solids: 90
 Initial Volume: 19g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-08
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
4,4'-DDE	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
4,4'-DDT	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Aldrin	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
alpha-BHC	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
alpha-Chlordane	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
beta-BHC	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Chlordane (Total)	ND (0.0351)		8081B		1	07/24/23 21:25	D3G0394	DG31908
delta-BHC	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Dieldrin	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Endosulfan I	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Endosulfan II	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Endrin	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Endrin Aldehyde	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Endrin Ketone	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0018)		8081B		1	07/24/23 21:25	D3G0394	DG31908
gamma-Chlordane	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Heptachlor	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Hexachlorobenzene	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Methoxychlor	ND (0.0029)		8081B		1	07/24/23 21:25	D3G0394	DG31908
Toxaphene	ND (0.146)		8081B		1	07/24/23 21:25	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	73 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	71 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	71 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90
Initial Volume: 19.9g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 7:29		DG32103
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 7:29		DG32103

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	75 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	77 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	104 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (41.7)		8100M		1	07/24/23 20:32		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		85 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/22/23 6:25	D3G0383	DG31953
1,2,4-Trichlorobenzene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
1,2-Dichlorobenzene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
1,3-Dichlorobenzene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
1,4-Dichlorobenzene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,3,4,6-Tetrachlorophenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,4,5-Trichlorophenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,4,6-Trichlorophenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,4-Dichlorophenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,4-Dimethylphenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,4-Dinitrophenol	ND (1.16)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,4-Dinitrotoluene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2,6-Dinitrotoluene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2-Chloronaphthalene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2-Chlorophenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2-Methylnaphthalene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2-Methylphenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2-Nitroaniline	ND (0.579)		8270D		1	07/22/23 6:25	D3G0383	DG31953
2-Nitrophenol	ND (0.579)		8270D		1	07/22/23 6:25	D3G0383	DG31953
3,3'-Dichlorobenzidine	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
3+4-Methylphenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
3-Nitroaniline	ND (0.579)		8270D		1	07/22/23 6:25	D3G0383	DG31953
4,6-Dinitro-2-Methylphenol	ND (1.16)		8270D		1	07/22/23 6:25	D3G0383	DG31953
4-Bromophenyl-phenylether	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
4-Chloro-3-Methylphenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
4-Chloroaniline	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
4-Chloro-phenyl-phenyl ether	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
4-Nitroaniline	ND (0.579)		8270D		1	07/22/23 6:25	D3G0383	DG31953
4-Nitrophenol	ND (1.16)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Acenaphthene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Acenaphthylene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Acetophenone	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Anthracene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Azobenzene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Benzo(a)anthracene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Benzo(a)pyrene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Benzo(b)fluoranthene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Benzo(g,h,i)perylene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Benzo(k)fluoranthene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Benzoic Acid	ND (2.90)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Benzyl Alcohol	ND (0.579)		8270D		1	07/22/23 6:25	D3G0383	DG31953
bis(2-Chloroethoxy)methane	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
bis(2-Chloroethyl)ether	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
bis(2-chloroisopropyl)Ether	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
bis(2-Ethylhexyl)phthalate	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Butylbenzylphthalate	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Carbazole	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Chrysene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Dibenzo(a,h)Anthracene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Dibenzofuran	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Diethylphthalate	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Dimethylphthalate	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Di-n-butylphthalate	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Di-n-octylphthalate	ND (0.579)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Fluoranthene	0.332 (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Fluorene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Hexachlorobenzene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Hexachlorobutadiene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Hexachlorocyclopentadiene	ND (0.579)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Hexachloroethane	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Indeno(1,2,3-cd)Pyrene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Isophorone	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Naphthalene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-306B
 Date Sampled: 07/18/23 14:20
 Percent Solids: 90
 Initial Volume: 19.2g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-08
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: TJ
 Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
N-Nitrosodimethylamine	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
N-Nitroso-Di-n-Propylamine	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
N-nitrosodiphenylamine	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Pentachlorophenol	ND (1.16)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Phenanthrene	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Phenol	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Pyrene	0.361 (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953
Pyridine	ND (0.290)		8270D		1	07/22/23 6:25	D3G0383	DG31953

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	101 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	97 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	103 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	103 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	96 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	107 %		30-130
<i>Surrogate: Phenol-d6</i>	106 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	130 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20
Percent Solids: 90

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 335 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.57 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.1 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32032



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306B
Date Sampled: 07/18/23 14:20

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-08
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (2.30)		6010C		1	CEV	07/26/23 15:43	2.39	100	DG32458
Barium	21.8 (2.30)		6010C		1	CEV	07/26/23 15:43	2.39	100	DG32458
Cadmium	ND (0.46)		6010C		1	CEV	07/26/23 15:43	2.39	100	DG32458
Chromium	ND (0.92)		6010C		1	CEV	07/26/23 15:43	2.39	100	DG32458
Lead	14.2 (4.61)		6010C		1	CEV	07/26/23 15:43	2.39	100	DG32458
Mercury	ND (0.032)		7471B		1	BJV	07/25/23 15:25	0.68	40	DG32513
Selenium	ND (4.61)		6010C		1	CEV	07/26/23 15:43	2.39	100	DG32458
Silver	ND (0.76)		6010C		2	CEV	08/01/23 20:30	2.9	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,1,1-Trichloroethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,1,2,2-Tetrachloroethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,1,2-Trichloroethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,1-Dichloroethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,1-Dichloroethene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,1-Dichloropropene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2,3-Trichlorobenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2,3-Trichloropropane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2,4-Trichlorobenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2,4-Trimethylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2-Dibromo-3-Chloropropane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2-Dibromoethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2-Dichloroethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,2-Dichloropropane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,3,5-Trimethylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,3-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,3-Dichloropropane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,4-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1,4-Dioxane	ND (0.0966)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
1-Chlorohexane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
2,2-Dichloropropane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
2-Butanone	ND (0.0483)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
2-Chlorotoluene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
2-Hexanone	ND (0.0483)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
4-Chlorotoluene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
4-Isopropyltoluene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
4-Methyl-2-Pentanone	ND (0.0483)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Acetone	ND (0.0483)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Benzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Bromobenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Bromodichloromethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Bromoform	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Bromomethane	ND (0.0097)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Carbon Disulfide	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Carbon Tetrachloride	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Chlorobenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Chloroethane	ND (0.0097)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Chloroform	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Chloromethane	ND (0.0097)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
cis-1,2-Dichloroethene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
cis-1,3-Dichloropropene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Dibromochloromethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Dibromomethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Dichlorodifluoromethane	ND (0.0097)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Diethyl Ether	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Di-isopropyl ether	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Ethyl tertiary-butyl ether	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Ethylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Hexachlorobutadiene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Isopropylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Methyl tert-Butyl Ether	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Methylene Chloride	ND (0.0242)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Naphthalene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
n-Butylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
n-Propylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
sec-Butylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Styrene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
tert-Butylbenzene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Tertiary-amyl methyl ether	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Tetrachloroethene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Tetrahydrofuran	ND (0.0193)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
trans-1,2-Dichloroethene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
trans-1,3-Dichloropropene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Trichloroethene	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Trichlorofluoromethane	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Vinyl Acetate	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Vinyl Chloride	ND (0.0097)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Xylene O	ND (0.0048)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Xylene P,M	ND (0.0097)		8260B Low		1	07/19/23 14:15	D3G0329	DG31935
Xylenes (Total)	ND (0.00966)		8260B Low		1	07/19/23 14:15		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>104 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>99 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>95 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 19.8g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
4,4'-DDE	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
4,4'-DDT	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Aldrin	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
alpha-BHC	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
alpha-Chlordane [2C]	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
beta-BHC	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Chlordane (Total)	ND (0.0334)		8081B		1	07/24/23 21:56	D3G0394	DG31908
delta-BHC	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Dieldrin	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Endosulfan I	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Endosulfan II	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Endrin	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Endrin Aldehyde	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Endrin Ketone	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/24/23 21:56	D3G0394	DG31908
gamma-Chlordane	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Heptachlor	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Hexachlorobenzene	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Methoxychlor	ND (0.0028)		8081B		1	07/24/23 21:56	D3G0394	DG31908
Toxaphene	ND (0.139)		8081B		1	07/24/23 21:56	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>80 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>81 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>75 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>75 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 20.1g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1221	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1232	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1242	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1248	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1254	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1260	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1262	ND (0.05)		8082A		1	07/25/23 7:49		DG32103
Aroclor 1268	ND (0.05)		8082A		1	07/25/23 7:49		DG32103

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	70 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	72 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	63 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	69 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.8)		8100M		1	07/24/23 21:18		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		82 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/22/23 6:55	D3G0383	DG31953
1,2,4-Trichlorobenzene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
1,2-Dichlorobenzene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
1,3-Dichlorobenzene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
1,4-Dichlorobenzene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,3,4,6-Tetrachlorophenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,4,5-Trichlorophenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,4,6-Trichlorophenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,4-Dichlorophenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,4-Dimethylphenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,4-Dinitrophenol	ND (1.14)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,4-Dinitrotoluene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2,6-Dinitrotoluene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2-Chloronaphthalene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2-Chlorophenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2-Methylnaphthalene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2-Methylphenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2-Nitroaniline	ND (0.568)		8270D		1	07/22/23 6:55	D3G0383	DG31953
2-Nitrophenol	ND (0.568)		8270D		1	07/22/23 6:55	D3G0383	DG31953
3,3'-Dichlorobenzidine	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
3+4-Methylphenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
3-Nitroaniline	ND (0.568)		8270D		1	07/22/23 6:55	D3G0383	DG31953
4,6-Dinitro-2-Methylphenol	ND (1.14)		8270D		1	07/22/23 6:55	D3G0383	DG31953
4-Bromophenyl-phenylether	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
4-Chloro-3-Methylphenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
4-Chloroaniline	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
4-Chloro-phenyl-phenyl ether	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
4-Nitroaniline	ND (0.568)		8270D		1	07/22/23 6:55	D3G0383	DG31953
4-Nitrophenol	ND (1.14)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Acenaphthene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Acenaphthylene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Acetophenone	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Anthracene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Azobenzene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Benzo(a)anthracene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Benzo(a)pyrene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Benzo(b)fluoranthene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Benzo(g,h,i)perylene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Benzo(k)fluoranthene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Benzoic Acid	ND (2.84)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Benzyl Alcohol	ND (0.568)		8270D		1	07/22/23 6:55	D3G0383	DG31953
bis(2-Chloroethoxy)methane	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
bis(2-Chloroethyl)ether	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
bis(2-chloroisopropyl)Ether	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
bis(2-Ethylhexyl)phthalate	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Butylbenzylphthalate	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Carbazole	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Chrysene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Dibenzo(a,h)Anthracene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Dibenzofuran	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Diethylphthalate	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Dimethylphthalate	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Di-n-butylphthalate	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Di-n-octylphthalate	ND (0.568)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Fluoranthene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Fluorene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Hexachlorobenzene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Hexachlorobutadiene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Hexachlorocyclopentadiene	ND (0.568)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Hexachloroethane	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Indeno(1,2,3-cd)Pyrene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Isophorone	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Naphthalene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-306C
 Date Sampled: 07/18/23 14:45
 Percent Solids: 91
 Initial Volume: 19.4g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-09
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: TJ
 Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
N-Nitrosodimethylamine	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
N-Nitroso-Di-n-Propylamine	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
N-nitrosodiphenylamine	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Pentachlorophenol	ND (1.14)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Phenanthrene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Phenol	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Pyrene	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953
Pyridine	ND (0.284)		8270D		1	07/22/23 6:55	D3G0383	DG31953

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>90 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>94 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>87 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>98 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>84 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>99 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>91 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>104 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45
Percent Solids: 91

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 156 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.15 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32032



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306C
Date Sampled: 07/18/23 14:45

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-09
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	ND (2.37)		6010C		1	CEV	07/26/23 15:45	2.34	100	DG32458
Barium	13.9 (2.37)		6010C		1	CEV	07/26/23 15:45	2.34	100	DG32458
Cadmium	ND (0.47)		6010C		1	CEV	07/26/23 15:45	2.34	100	DG32458
Chromium	ND (0.95)		6010C		1	CEV	07/26/23 15:45	2.34	100	DG32458
Lead	ND (4.75)		6010C		1	CEV	07/26/23 15:45	2.34	100	DG32458
Mercury	ND (0.034)		7471B		1	BJV	07/25/23 15:27	0.65	40	DG32513
Selenium	ND (4.75)		6010C		1	CEV	07/26/23 15:45	2.34	100	DG32458
Silver	ND (0.81)		6010C		2	CEV	08/01/23 20:33	2.76	100	DG33109



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90
Initial Volume: 6.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,1,1-Trichloroethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,1,2,2-Tetrachloroethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,1,2-Trichloroethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,1-Dichloroethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,1-Dichloroethene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,1-Dichloropropene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2,3-Trichlorobenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2,3-Trichloropropane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2,4-Trichlorobenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2,4-Trimethylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2-Dibromo-3-Chloropropane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2-Dibromoethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2-Dichlorobenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2-Dichloroethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,2-Dichloropropane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,3,5-Trimethylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,3-Dichlorobenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,3-Dichloropropane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,4-Dichlorobenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1,4-Dioxane	ND (0.0805)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
1-Chlorohexane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
2,2-Dichloropropane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
2-Butanone	ND (0.0403)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
2-Chlorotoluene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
2-Hexanone	ND (0.0403)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
4-Chlorotoluene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
4-Isopropyltoluene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
4-Methyl-2-Pentanone	ND (0.0403)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Acetone	ND (0.0403)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Benzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Bromobenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90
Initial Volume: 6.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Bromodichloromethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Bromoform	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Bromomethane	ND (0.0081)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Carbon Disulfide	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Carbon Tetrachloride	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Chlorobenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Chloroethane	ND (0.0081)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Chloroform	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Chloromethane	ND (0.0081)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
cis-1,2-Dichloroethene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
cis-1,3-Dichloropropene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Dibromochloromethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Dibromomethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Dichlorodifluoromethane	ND (0.0081)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Diethyl Ether	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Di-isopropyl ether	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Ethyl tertiary-butyl ether	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Ethylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Hexachlorobutadiene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Isopropylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Methyl tert-Butyl Ether	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Methylene Chloride	ND (0.0201)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Naphthalene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
n-Butylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
n-Propylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
sec-Butylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Styrene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
tert-Butylbenzene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Tertiary-amyl methyl ether	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Tetrachloroethene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Tetrahydrofuran	ND (0.0161)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90
Initial Volume: 6.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
trans-1,2-Dichloroethene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
trans-1,3-Dichloropropene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Trichloroethene	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Trichlorofluoromethane	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Vinyl Acetate	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Vinyl Chloride	ND (0.0081)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Xylene O	ND (0.0040)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Xylene P,M	ND (0.0081)		8260B Low		1	07/19/23 14:40	D3G0329	DG31935
Xylenes (Total)	ND (0.00805)		8260B Low		1	07/19/23 14:40		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>99 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>96 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90
Initial Volume: 20.9g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/19/23 11:45

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
4,4'-DDE	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
4,4'-DDT	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Aldrin	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
alpha-BHC	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
alpha-Chlordane	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
beta-BHC	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Chlordane (Total)	ND (0.0319)		8081B		1	07/24/23 22:26	D3G0394	DG31908
delta-BHC	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Dieldrin	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Endosulfan I	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Endosulfan II	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Endrin	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Endrin Aldehyde	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Endrin Ketone	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/24/23 22:26	D3G0394	DG31908
gamma-Chlordane	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Heptachlor	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Hexachlorobenzene	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Methoxychlor	ND (0.0027)		8081B		1	07/24/23 22:26	D3G0394	DG31908
Toxaphene	ND (0.133)		8081B		1	07/24/23 22:26	D3G0394	DG31908

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>81 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>82 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>53 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>65 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-306D
 Date Sampled: 07/18/23 15:00
 Percent Solids: 90
 Initial Volume: 20.3g
 Final Volume: 10ml
 Extraction Method: 3540C

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-10
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: JLG
 Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1221	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1232	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1242	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1248	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1254	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1260	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1262	ND (0.05)		8082A		1	07/25/23 8:08		DG32103
Aroclor 1268	ND (0.05)		8082A		1	07/25/23 8:08		DG32103

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	78 %		30-150
Surrogate: Decachlorobiphenyl [2C]	82 %		30-150
Surrogate: Tetrachloro-m-xylene	64 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	77 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 10:30

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (41.5)		8100M		1	07/24/23 21:59		DG31906
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		87 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/24/23 23:50	D3G0417	DG31953
1,2,4-Trichlorobenzene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
1,2-Dichlorobenzene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
1,3-Dichlorobenzene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
1,4-Dichlorobenzene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,3,4,6-Tetrachlorophenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,4,5-Trichlorophenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,4,6-Trichlorophenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,4-Dichlorophenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,4-Dimethylphenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,4-Dinitrophenol	ND (1.15)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,4-Dinitrotoluene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2,6-Dinitrotoluene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2-Chloronaphthalene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2-Chlorophenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2-Methylnaphthalene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2-Methylphenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2-Nitroaniline	ND (0.573)		8270D		1	07/24/23 23:50	D3G0417	DG31953
2-Nitrophenol	ND (0.573)		8270D		1	07/24/23 23:50	D3G0417	DG31953
3,3'-Dichlorobenzidine	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
3+4-Methylphenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
3-Nitroaniline	ND (0.573)		8270D		1	07/24/23 23:50	D3G0417	DG31953
4,6-Dinitro-2-Methylphenol	ND (1.15)		8270D		1	07/24/23 23:50	D3G0417	DG31953
4-Bromophenyl-phenylether	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
4-Chloro-3-Methylphenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
4-Chloroaniline	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
4-Chloro-phenyl-phenyl ether	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
4-Nitroaniline	ND (0.573)		8270D		1	07/24/23 23:50	D3G0417	DG31953
4-Nitrophenol	ND (1.15)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Acenaphthene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Acenaphthylene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Acetophenone	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Anthracene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Azobenzene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Benzo(a)anthracene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Benzo(a)pyrene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Benzo(b)fluoranthene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Benzo(g,h,i)perylene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Benzo(k)fluoranthene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Benzoic Acid	ND (2.86)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Benzyl Alcohol	ND (0.573)		8270D		1	07/24/23 23:50	D3G0417	DG31953
bis(2-Chloroethoxy)methane	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
bis(2-Chloroethyl)ether	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
bis(2-chloroisopropyl)Ether	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
bis(2-Ethylhexyl)phthalate	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Butylbenzylphthalate	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Carbazole	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Chrysene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Dibenzo(a,h)Anthracene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Dibenzofuran	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Diethylphthalate	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Dimethylphthalate	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Di-n-butylphthalate	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Di-n-octylphthalate	ND (0.573)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Fluoranthene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Fluorene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Hexachlorobenzene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Hexachlorobutadiene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Hexachlorocyclopentadiene	ND (0.573)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Hexachloroethane	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Indeno(1,2,3-cd)Pyrene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Isophorone	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Naphthalene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-306D
 Date Sampled: 07/18/23 15:00
 Percent Solids: 90
 Initial Volume: 19.4g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0543
 ESS Laboratory Sample ID: 23G0543-10
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: TJ
 Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
N-Nitrosodimethylamine	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
N-Nitroso-Di-n-Propylamine	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
N-nitrosodiphenylamine	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Pentachlorophenol	ND (1.15)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Phenanthrene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Phenol	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Pyrene	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953
Pyridine	ND (0.286)		8270D		1	07/24/23 23:50	D3G0417	DG31953

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>103 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>107 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>98 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>101 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>98 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>94 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>97 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>121 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00
Percent Solids: 90

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 237 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.13 (N/A)		9045		1	JLK	07/18/23 20:23	S.U.	DG31852
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32033



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-306D
Date Sampled: 07/18/23 15:00

ESS Laboratory Work Order: 23G0543
ESS Laboratory Sample ID: 23G0543-10
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DG32458 - 3050B

Blank										
Arsenic	ND	2.50	mg/kg wet							
Barium	ND	2.50	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Chromium	ND	1.00	mg/kg wet							
Lead	ND	5.00	mg/kg wet							
Selenium	ND	5.00	mg/kg wet							

Blank										
Selenium	ND	0.50	mg/kg wet							

LCS										
Arsenic	65.6	7.94	mg/kg wet	65.20		101	80-120			
Barium	733	7.94	mg/kg wet	626.0		117	80-120			
Cadmium	109	1.59	mg/kg wet	118.0		93	80-120			
Chromium	145	3.17	mg/kg wet	159.0		91	80-120			
Lead	216	15.9	mg/kg wet	230.0		94	80-120			
Selenium	49.8	15.9	mg/kg wet	55.70		89	80-120			

LCS										
Selenium	53.2	7.94	mg/kg wet	55.70		96	80-120			

LCS Dup										
Arsenic	69.3	8.06	mg/kg wet	65.20		106	80-120	5	30	
Barium	690	8.06	mg/kg wet	626.0		110	80-120	6	30	
Cadmium	113	1.61	mg/kg wet	118.0		96	80-120	3	30	
Chromium	150	3.23	mg/kg wet	159.0		94	80-120	3	30	
Lead	225	16.1	mg/kg wet	230.0		98	80-120	4	20	
Selenium	53.6	16.1	mg/kg wet	55.70		96	80-120	7	30	

LCS Dup										
Selenium	55.7	8.06	mg/kg wet	55.70		100	80-120	5	30	

Batch DG32513 - 7471B

Blank										
Mercury	ND	0.029	mg/kg wet							

LCS										
Mercury	18.1	2.87	mg/kg wet	18.20		99	80-120			

LCS Dup										
Mercury	18.8	2.96	mg/kg wet	18.20		103	80-120	4	30	

Batch DG33109 - 3050B

Blank										
Arsenic	ND	1.98	mg/kg wet							
Cadmium	ND	0.40	mg/kg wet							
Chromium	ND	0.79	mg/kg wet							
Lead	ND	3.97	mg/kg wet							
Silver	ND	0.40	mg/kg wet							

LCS										
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CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DG33109 - 3050B

Arsenic	58.6	7.58	mg/kg wet	65.20		90	80-120			
Cadmium	98.8	1.52	mg/kg wet	118.0		84	80-120			
Chromium	136	3.03	mg/kg wet	159.0		85	80-120			
Lead	198	15.2	mg/kg wet	230.0		86	80-120			
Silver	42.7	1.52	mg/kg wet	46.20		92	80-120			

LCS Dup

Arsenic	63.4	8.33	mg/kg wet	65.20		97	80-120	8	30	
Cadmium	102	1.67	mg/kg wet	118.0		86	80-120	3	30	
Chromium	145	3.33	mg/kg wet	159.0		91	80-120	6	30	
Lead	209	16.7	mg/kg wet	230.0		91	80-120	5	20	
Silver	45.7	1.67	mg/kg wet	46.20		99	80-120	7	30	

5035/8260B Volatile Organic Compounds / Low Level

Batch DG31932 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
1-Chlorohexane	ND	0.0050	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31932 - 5035

Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0531		mg/kg wet	0.05000		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.0460		mg/kg wet	0.05000		92	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31932 - 5035

Surrogate: Dibromofluoromethane	0.0476		mg/kg wet	0.05000		95	70-130			
Surrogate: Toluene-d8	0.0499		mg/kg wet	0.05000		100	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0529	0.0050	mg/kg wet	0.05000		106	70-130			
1,1,1-Trichloroethane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
1,1,2,2-Tetrachloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
1,1,2-Trichloroethane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,1-Dichloroethane	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,1-Dichloroethene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
1,1-Dichloropropene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,3-Trichlorobenzene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
1,2,3-Trichloropropane	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,4-Trichlorobenzene	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
1,2,4-Trimethylbenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dibromo-3-Chloropropane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
1,2-Dibromoethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,2-Dichlorobenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dichloroethane	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dichloropropane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
1,3,5-Trimethylbenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
1,3-Dichlorobenzene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,3-Dichloropropane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,4-Dichlorobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
1,4-Dioxane	1.22	0.100	mg/kg wet	1.000		122	70-130			
1-Chlorohexane	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
2,2-Dichloropropane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
2-Butanone	0.262	0.0500	mg/kg wet	0.2500		105	70-130			
2-Chlorotoluene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
2-Hexanone	0.276	0.0500	mg/kg wet	0.2500		111	70-130			
4-Chlorotoluene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
4-Isopropyltoluene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
4-Methyl-2-Pentanone	0.278	0.0500	mg/kg wet	0.2500		111	70-130			
Acetone	0.309	0.0500	mg/kg wet	0.2500		124	70-130			
Benzene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Bromobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
Bromochloromethane	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
Bromodichloromethane	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
Bromoform	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Bromomethane	0.0670	0.0100	mg/kg wet	0.05000		134	70-130			B+
Carbon Disulfide	0.0575	0.0050	mg/kg wet	0.05000		115	70-130			
Carbon Tetrachloride	0.0564	0.0050	mg/kg wet	0.05000		113	70-130			
Chlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
Chloroethane	0.0613	0.0100	mg/kg wet	0.05000		123	70-130			
Chloroform	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31932 - 5035

Chloromethane	0.0578	0.0100	mg/kg wet	0.05000		116	70-130			
cis-1,2-Dichloroethene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
cis-1,3-Dichloropropene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
Dibromochloromethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Dibromomethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Dichlorodifluoromethane	0.0515	0.0100	mg/kg wet	0.05000		103	70-130			
Diethyl Ether	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
Di-isopropyl ether	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Ethyl tertiary-butyl ether	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Ethylbenzene	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
Hexachlorobutadiene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
Isopropylbenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
Methyl tert-Butyl Ether	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Methylene Chloride	0.0554	0.0250	mg/kg wet	0.05000		111	70-130			
Naphthalene	0.0567	0.0050	mg/kg wet	0.05000		113	70-130			
n-Butylbenzene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
n-Propylbenzene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
sec-Butylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
Styrene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
tert-Butylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
Tertiary-amyl methyl ether	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Tetrachloroethene	0.0381	0.0050	mg/kg wet	0.05000		76	70-130			
Tetrahydrofuran	0.0501	0.0200	mg/kg wet	0.05000		100	70-130			
Toluene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
trans-1,2-Dichloroethene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
trans-1,3-Dichloropropene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
Trichloroethene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
Trichlorofluoromethane	0.0556	0.0050	mg/kg wet	0.05000		111	70-130			
Vinyl Acetate	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Vinyl Chloride	0.0590	0.0100	mg/kg wet	0.05000		118	70-130			
Xylene O	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Xylene P,M	0.113	0.0100	mg/kg wet	0.1000		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0478		mg/kg wet	0.05000		96	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/kg wet	0.05000		102	70-130			
Surrogate: Dibromofluoromethane	0.0491		mg/kg wet	0.05000		98	70-130			
Surrogate: Toluene-d8	0.0479		mg/kg wet	0.05000		96	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	3	25	
1,1,1-Trichloroethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
1,1,2,2-Tetrachloroethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	7	25	
1,1,2-Trichloroethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
1,1-Dichloroethane	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	4	25	
1,1-Dichloroethene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	6	25	
1,1-Dichloropropene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	6	25	
1,2,3-Trichlorobenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	8	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31932 - 5035

1,2,3-Trichloropropane	0.0436	0.0050	mg/kg wet	0.05000		87	70-130	7	25	
1,2,4-Trichlorobenzene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	8	25	
1,2,4-Trimethylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	9	25	
1,2-Dibromo-3-Chloropropane	0.0423	0.0050	mg/kg wet	0.05000		85	70-130	11	25	
1,2-Dibromoethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
1,2-Dichlorobenzene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	6	25	
1,2-Dichloroethane	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
1,2-Dichloropropane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
1,3,5-Trimethylbenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	8	25	
1,3-Dichlorobenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	7	25	
1,3-Dichloropropane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	0.6	25	
1,4-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	8	25	
1,4-Dioxane	1.08	0.100	mg/kg wet	1.000		108	70-130	12	20	
1-Chlorohexane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	6	25	
2,2-Dichloropropane	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	4	25	
2-Butanone	0.243	0.0500	mg/kg wet	0.2500		97	70-130	8	25	
2-Chlorotoluene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	8	25	
2-Hexanone	0.251	0.0500	mg/kg wet	0.2500		100	70-130	9	25	
4-Chlorotoluene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	8	25	
4-Isopropyltoluene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	10	25	
4-Methyl-2-Pentanone	0.255	0.0500	mg/kg wet	0.2500		102	70-130	8	25	
Acetone	0.272	0.0500	mg/kg wet	0.2500		109	70-130	13	25	
Benzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	5	25	
Bromobenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	5	25	
Bromochloromethane	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	3	25	
Bromodichloromethane	0.0531	0.0050	mg/kg wet	0.05000		106	70-130	3	25	
Bromoform	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	3	25	
Bromomethane	0.0632	0.0100	mg/kg wet	0.05000		126	70-130	6	25	
Carbon Disulfide	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	7	25	
Carbon Tetrachloride	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	6	25	
Chlorobenzene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	5	25	
Chloroethane	0.0562	0.0100	mg/kg wet	0.05000		112	70-130	9	25	
Chloroform	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	4	25	
Chloromethane	0.0545	0.0100	mg/kg wet	0.05000		109	70-130	6	25	
cis-1,2-Dichloroethene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	3	25	
cis-1,3-Dichloropropene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	2	25	
Dibromochloromethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	0.8	25	
Dibromomethane	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	3	25	
Dichlorodifluoromethane	0.0455	0.0100	mg/kg wet	0.05000		91	70-130	12	25	
Diethyl Ether	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	0.6	25	
Di-isopropyl ether	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
Ethyl tertiary-butyl ether	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	0.6	25	
Ethylbenzene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	6	25	
Hexachlorobutadiene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	10	25	
Isopropylbenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	8	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31932 - 5035

Methyl tert-Butyl Ether	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.7	25	
Methylene Chloride	0.0530	0.0250	mg/kg wet	0.05000		106	70-130	4	25	
Naphthalene	0.0530	0.0050	mg/kg wet	0.05000		106	70-130	7	25	
n-Butylbenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	11	25	
n-Propylbenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	9	25	
sec-Butylbenzene	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	10	25	
Styrene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	6	25	
tert-Butylbenzene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	9	25	
Tertiary-amyl methyl ether	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	0.3	25	
Tetrachloroethene	0.0356	0.0050	mg/kg wet	0.05000		71	70-130	7	25	
Tetrahydrofuran	0.0459	0.0200	mg/kg wet	0.05000		92	70-130	9	25	
Toluene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	7	25	
trans-1,2-Dichloroethene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	4	25	
trans-1,3-Dichloropropene	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	2	25	
Trichloroethene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	5	25	
Trichlorofluoromethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	6	25	
Vinyl Acetate	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	0.4	25	
Vinyl Chloride	0.0539	0.0100	mg/kg wet	0.05000		108	70-130	9	25	
Xylene O	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	6	25	
Xylene P,M	0.106	0.0100	mg/kg wet	0.1000		106	70-130	6	25	
Surrogate: 1,2-Dichloroethane-d4	0.0483		mg/kg wet	0.05000		97	70-130			
Surrogate: 4-Bromofluorobenzene	0.0516		mg/kg wet	0.05000		103	70-130			
Surrogate: Dibromofluoromethane	0.0504		mg/kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	0.0489		mg/kg wet	0.05000		98	70-130			

Batch DG31935 - 5035

Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31935 - 5035

1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
1-Chlorohexane	ND	0.0050	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31935 - 5035

Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0475		mg/kg wet	0.05000		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0467		mg/kg wet	0.05000		93	70-130			
Surrogate: Dibromofluoromethane	0.0461		mg/kg wet	0.05000		92	70-130			
Surrogate: Toluene-d8	0.0480		mg/kg wet	0.05000		96	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0587	0.0050	mg/kg wet	0.05000		117	70-130			
1,1,1-Trichloroethane	0.0534	0.0050	mg/kg wet	0.05000		107	70-130			
1,1,2,2-Tetrachloroethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
1,1,2-Trichloroethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
1,1-Dichloroethane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,1-Dichloroethene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
1,1-Dichloropropene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,3-Trichlorobenzene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130			
1,2,3-Trichloropropane	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
1,2,4-Trichlorobenzene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,4-Trimethylbenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,2-Dibromoethane	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
1,2-Dichlorobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130			
1,2-Dichloroethane	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
1,2-Dichloropropane	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,3,5-Trimethylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
1,3-Dichlorobenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,3-Dichloropropane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
1,4-Dichlorobenzene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
1,4-Dioxane	1.05	0.100	mg/kg wet	1.000		105	70-130			
1-Chlorohexane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130			
2,2-Dichloropropane	0.0580	0.0050	mg/kg wet	0.05000		116	70-130			
2-Butanone	0.247	0.0500	mg/kg wet	0.2500		99	70-130			
2-Chlorotoluene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
2-Hexanone	0.248	0.0500	mg/kg wet	0.2500		99	70-130			
4-Chlorotoluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
4-Isopropyltoluene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
4-Methyl-2-Pentanone	0.235	0.0500	mg/kg wet	0.2500		94	70-130			
Acetone	0.264	0.0500	mg/kg wet	0.2500		106	70-130			
Benzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31935 - 5035

Bromobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
Bromochloromethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
Bromodichloromethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Bromoform	0.0574	0.0050	mg/kg wet	0.05000		115	70-130			
Bromomethane	0.0441	0.0100	mg/kg wet	0.05000		88	70-130			
Carbon Disulfide	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
Carbon Tetrachloride	0.0561	0.0050	mg/kg wet	0.05000		112	70-130			
Chlorobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Chloroethane	0.0495	0.0100	mg/kg wet	0.05000		99	70-130			
Chloroform	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Chloromethane	0.0437	0.0100	mg/kg wet	0.05000		87	70-130			
cis-1,2-Dichloroethene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
cis-1,3-Dichloropropene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
Dibromochloromethane	0.0601	0.0050	mg/kg wet	0.05000		120	70-130			
Dibromomethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Dichlorodifluoromethane	0.0376	0.0100	mg/kg wet	0.05000		75	70-130			
Diethyl Ether	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
Di-isopropyl ether	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Ethyl tertiary-butyl ether	0.0594	0.0050	mg/kg wet	0.05000		119	70-130			
Ethylbenzene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Hexachlorobutadiene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
Isopropylbenzene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
Methyl tert-Butyl Ether	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
Methylene Chloride	0.0443	0.0250	mg/kg wet	0.05000		89	70-130			
Naphthalene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130			
n-Butylbenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
n-Propylbenzene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
sec-Butylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Styrene	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
tert-Butylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Tertiary-amyl methyl ether	0.0614	0.0050	mg/kg wet	0.05000		123	70-130			
Tetrachloroethene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
Tetrahydrofuran	0.0453	0.0200	mg/kg wet	0.05000		91	70-130			
Toluene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
trans-1,2-Dichloroethene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
trans-1,3-Dichloropropene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130			
Trichloroethene	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Trichlorofluoromethane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
Vinyl Acetate	0.0607	0.0050	mg/kg wet	0.05000		121	70-130			
Vinyl Chloride	0.0475	0.0100	mg/kg wet	0.05000		95	70-130			
Xylene O	0.0533	0.0050	mg/kg wet	0.05000		107	70-130			
Xylene P,M	0.108	0.0100	mg/kg wet	0.1000		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0433		mg/kg wet	0.05000		87	70-130			
Surrogate: 4-Bromofluorobenzene	0.0483		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0462		mg/kg wet	0.05000		92	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31935 - 5035

<i>Surrogate: Toluene-d8</i>	0.0499		mg/kg wet	0.05000		100	70-130			
LCS Dup										
1,1,1,2-Tetrachloroethane	0.0571	0.0050	mg/kg wet	0.05000		114	70-130	3	25	
1,1,1-Trichloroethane	0.0541	0.0050	mg/kg wet	0.05000		108	70-130	1	25	
1,1,2,2-Tetrachloroethane	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	2	25	
1,1,2-Trichloroethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	0.04	25	
1,1-Dichloroethane	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
1,1-Dichloroethene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
1,1-Dichloropropene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
1,2,3-Trichlorobenzene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
1,2,3-Trichloropropane	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	1	25	
1,2,4-Trichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	3	25	
1,2,4-Trimethylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	0.2	25	
1,2-Dibromo-3-Chloropropane	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	0.6	25	
1,2-Dibromoethane	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
1,2-Dichlorobenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130	0.6	25	
1,2-Dichloroethane	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	0.5	25	
1,2-Dichloropropane	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
1,3,5-Trimethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130	0.2	25	
1,3-Dichlorobenzene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
1,3-Dichloropropane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
1,4-Dichlorobenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	0.3	25	
1,4-Dioxane	1.03	0.100	mg/kg wet	1.000		103	70-130	2	20	
1-Chlorohexane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	2	25	
2,2-Dichloropropane	0.0587	0.0050	mg/kg wet	0.05000		117	70-130	1	25	
2-Butanone	0.251	0.0500	mg/kg wet	0.2500		100	70-130	2	25	
2-Chlorotoluene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130	0.08	25	
2-Hexanone	0.246	0.0500	mg/kg wet	0.2500		98	70-130	0.8	25	
4-Chlorotoluene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	0.08	25	
4-Isopropyltoluene	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	0.6	25	
4-Methyl-2-Pentanone	0.236	0.0500	mg/kg wet	0.2500		94	70-130	0.7	25	
Acetone	0.275	0.0500	mg/kg wet	0.2500		110	70-130	4	25	
Benzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	1	25	
Bromobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	0.08	25	
Bromochloromethane	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	2	25	
Bromodichloromethane	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	0.3	25	
Bromoform	0.0559	0.0050	mg/kg wet	0.05000		112	70-130	3	25	
Bromomethane	0.0462	0.0100	mg/kg wet	0.05000		92	70-130	5	25	
Carbon Disulfide	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
Carbon Tetrachloride	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	0.2	25	
Chlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
Chloroethane	0.0498	0.0100	mg/kg wet	0.05000		100	70-130	0.6	25	
Chloroform	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	0.6	25	
Chloromethane	0.0435	0.0100	mg/kg wet	0.05000		87	70-130	0.5	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG31935 - 5035

cis-1,2-Dichloroethene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
cis-1,3-Dichloropropene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	0.8	25	
Dibromochloromethane	0.0589	0.0050	mg/kg wet	0.05000		118	70-130	2	25	
Dibromomethane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
Dichlorodifluoromethane	0.0374	0.0100	mg/kg wet	0.05000		75	70-130	0.5	25	
Diethyl Ether	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	0.5	25	
Di-isopropyl ether	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
Ethyl tertiary-butyl ether	0.0601	0.0050	mg/kg wet	0.05000		120	70-130	1	25	
Ethylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
Hexachlorobutadiene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	0.8	25	
Isopropylbenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	0.8	25	
Methyl tert-Butyl Ether	0.0558	0.0050	mg/kg wet	0.05000		112	70-130	1	25	
Methylene Chloride	0.0448	0.0250	mg/kg wet	0.05000		90	70-130	1	25	
Naphthalene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
n-Butylbenzene	0.0487	0.0050	mg/kg wet	0.05000		97	70-130	0.6	25	
n-Propylbenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	0.6	25	
sec-Butylbenzene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	0.08	25	
Styrene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
tert-Butylbenzene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	0.3	25	
Tertiary-amyl methyl ether	0.0618	0.0050	mg/kg wet	0.05000		124	70-130	0.8	25	
Tetrachloroethene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	1	25	
Tetrahydrofuran	0.0460	0.0200	mg/kg wet	0.05000		92	70-130	1	25	
Toluene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
trans-1,2-Dichloroethene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	1	25	
trans-1,3-Dichloropropene	0.0497	0.0050	mg/kg wet	0.05000		99	70-130	0.08	25	
Trichloroethene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
Trichlorofluoromethane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	1	25	
Vinyl Acetate	0.0615	0.0050	mg/kg wet	0.05000		123	70-130	1	25	
Vinyl Chloride	0.0482	0.0100	mg/kg wet	0.05000		96	70-130	2	25	
Xylene O	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	3	25	
Xylene P,M	0.104	0.0100	mg/kg wet	0.1000		104	70-130	4	25	
Surrogate: 1,2-Dichloroethane-d4	0.0434		mg/kg wet	0.05000		87	70-130			
Surrogate: 4-Bromofluorobenzene	0.0474		mg/kg wet	0.05000		95	70-130			
Surrogate: Dibromofluoromethane	0.0466		mg/kg wet	0.05000		93	70-130			
Surrogate: Toluene-d8	0.0487		mg/kg wet	0.05000		97	70-130			

8081B Organochlorine Pesticides

Batch DG31908 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG31908 - 3546

Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Aldehyde	ND	0.0025	mg/kg wet							
Endrin Aldehyde [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0117		mg/kg wet	0.01250		94	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0118		mg/kg wet	0.01250		94	30-150			
Surrogate: Tetrachloro-m-xylene	0.0123		mg/kg wet	0.01250		99	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0123		mg/kg wet	0.01250		99	30-150			

LCS										
4,4'-DDD	0.0129	0.0025	mg/kg wet	0.01250		104	40-140			
4,4'-DDD [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
4,4'-DDE	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			



CERTIFICATE OF ANALYSIS

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Quality Control Data

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8081B Organochlorine Pesticides

Batch DG31908 - 3546

4,4'-DDE [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
4,4'-DDT	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
4,4'-DDT [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Aldrin	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Aldrin [2C]	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
alpha-BHC	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
alpha-BHC [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
alpha-Chlordane	0.0108	0.0025	mg/kg wet	0.01250		86	40-140			
alpha-Chlordane [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
beta-BHC	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
beta-BHC [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
delta-BHC	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
delta-BHC [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
Dieldrin	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Dieldrin [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Endosulfan I	0.0100	0.0025	mg/kg wet	0.01250		80	40-140			
Endosulfan I [2C]	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Endosulfan II	0.0112	0.0025	mg/kg wet	0.01250		89	40-140			
Endosulfan II [2C]	0.0121	0.0025	mg/kg wet	0.01250		96	40-140			
Endosulfan Sulfate	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Endosulfan Sulfate [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endrin	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Endrin [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Endrin Aldehyde	0.0102	0.0025	mg/kg wet	0.01250		82	40-140			
Endrin Aldehyde [2C]	0.0106	0.0025	mg/kg wet	0.01250		85	40-140			
Endrin Ketone	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Endrin Ketone [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
gamma-BHC (Lindane)	0.0120	0.0015	mg/kg wet	0.01250		96	40-140			
gamma-BHC (Lindane) [2C]	0.0125	0.0015	mg/kg wet	0.01250		100	40-140			
gamma-Chlordane	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
gamma-Chlordane [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Heptachlor	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Heptachlor [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Heptachlor Epoxide	0.0112	0.0025	mg/kg wet	0.01250		89	40-140			
Heptachlor Epoxide [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
Hexachlorobenzene	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Hexachlorobenzene [2C]	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
Methoxychlor	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Methoxychlor [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			

Surrogate: Decachlorobiphenyl	0.0131		mg/kg wet	0.01250		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0132		mg/kg wet	0.01250		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.0133		mg/kg wet	0.01250		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0135		mg/kg wet	0.01250		108	30-150			

LCS Dup



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG31908 - 3546

4,4'-DDD	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	4	30	
4,4'-DDD [2C]	0.0145	0.0025	mg/kg wet	0.01250		116	40-140	4	30	
4,4'-DDE	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	3	30	
4,4'-DDE [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	4	30	
4,4'-DDT	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	5	30	
4,4'-DDT [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	6	30	
Aldrin	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	1	30	
Aldrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	2	30	
alpha-BHC	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
alpha-BHC [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	2	30	
alpha-Chlordane	0.0111	0.0025	mg/kg wet	0.01250		89	40-140	3	30	
alpha-Chlordane [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	4	30	
beta-BHC	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	1	30	
beta-BHC [2C]	0.0122	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
delta-BHC	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	2	30	
delta-BHC [2C]	0.0137	0.0025	mg/kg wet	0.01250		109	40-140	3	30	
Dieldrin	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	3	30	
Dieldrin [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	4	30	
Endosulfan I	0.0103	0.0025	mg/kg wet	0.01250		82	40-140	2	30	
Endosulfan I [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	4	30	
Endosulfan II	0.0116	0.0025	mg/kg wet	0.01250		93	40-140	4	30	
Endosulfan II [2C]	0.0126	0.0025	mg/kg wet	0.01250		100	40-140	4	30	
Endosulfan Sulfate	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	5	30	
Endosulfan Sulfate [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	4	30	
Endrin	0.0119	0.0025	mg/kg wet	0.01250		96	40-140	4	30	
Endrin [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	4	30	
Endrin Aldehyde	0.0105	0.0025	mg/kg wet	0.01250		84	40-140	2	30	
Endrin Aldehyde [2C]	0.0109	0.0025	mg/kg wet	0.01250		87	40-140	2	30	
Endrin Ketone	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	4	30	
Endrin Ketone [2C]	0.0134	0.0025	mg/kg wet	0.01250		108	40-140	4	30	
gamma-BHC (Lindane)	0.0122	0.0015	mg/kg wet	0.01250		98	40-140	2	30	
gamma-BHC (Lindane) [2C]	0.0128	0.0015	mg/kg wet	0.01250		103	40-140	2	30	
gamma-Chlordane	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	3	30	
gamma-Chlordane [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	4	30	
Heptachlor	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	0.9	30	
Heptachlor [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	2	30	
Heptachlor Epoxide	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	3	30	
Heptachlor Epoxide [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	3	30	
Hexachlorobenzene	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	0.1	30	
Hexachlorobenzene [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140	0.3	30	
Methoxychlor	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	6	30	
Methoxychlor [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	4	30	

Surrogate: Decachlorobiphenyl	0.0131		mg/kg wet	0.01250		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0133		mg/kg wet	0.01250		106	30-150			
Surrogate: Tetrachloro-m-xylene	0.0129		mg/kg wet	0.01250		103	30-150			



CERTIFICATE OF ANALYSIS

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Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081B Organochlorine Pesticides										
Batch DG31908 - 3546										
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	0.0131		mg/kg wet	0.01250		105	30-150			
8082A Polychlorinated Biphenyls (PCB)										
Batch DG32103 - 3540C										
Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
<i>Surrogate: Decachlorobiphenyl</i>	0.0210		mg/kg wet	0.02500		84	30-150			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	0.0226		mg/kg wet	0.02500		90	30-150			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0194		mg/kg wet	0.02500		78	30-150			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	0.0210		mg/kg wet	0.02500		84	30-150			
LCS										
Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		92	40-140			
<i>Surrogate: Decachlorobiphenyl</i>	0.0208		mg/kg wet	0.02500		83	30-150			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	0.0225		mg/kg wet	0.02500		90	30-150			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0196		mg/kg wet	0.02500		78	30-150			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	0.0198		mg/kg wet	0.02500		79	30-150			
LCS Dup										
Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		90	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		93	40-140	4	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		92	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		95	40-140	3	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG32103 - 3540C

Surrogate: Decachlorobiphenyl	0.0214		mg/kg wet	0.02500		86	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0230		mg/kg wet	0.02500		92	30-150			
Surrogate: Tetrachloro-m-xylene	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0207		mg/kg wet	0.02500		83	30-150			

8100M Total Petroleum Hydrocarbons

Batch DG31906 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							

Surrogate: O-Terphenyl	3.69		mg/kg wet	5.000		74	40-140			
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LCS

Decane (C10)	1.8	0.2	mg/kg wet	2.500		74	40-140			
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		95	40-140			
Dodecane (C12)	2.0	0.2	mg/kg wet	2.500		81	40-140			
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Hexacosane (C26)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Hexadecane (C16)	2.2	0.2	mg/kg wet	2.500		89	40-140			
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		63	30-140			
Octacosane (C28)	2.3	0.2	mg/kg wet	2.500		92	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Tetracosane (C24)	2.2	0.2	mg/kg wet	2.500		87	40-140			
Tetradecane (C14)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Total Petroleum Hydrocarbons	32.6	37.5	mg/kg wet	35.00		93	40-140			
Triacontane (C30)	2.3	0.2	mg/kg wet	2.500		92	40-140			

Surrogate: O-Terphenyl	3.70		mg/kg wet	5.000		74	40-140			
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LCS Dup

Decane (C10)	1.8	0.2	mg/kg wet	2.500		74	40-140	0.1	25	
Docosane (C22)	2.3	0.2	mg/kg wet	2.500		94	40-140	1	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DG31906 - 3546

Dodecane (C12)	2.0	0.2	mg/kg wet	2.500		82	40-140	0.8	25	
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		95	40-140	2	25	
Hexacosane (C26)	2.4	0.2	mg/kg wet	2.500		95	40-140	1	25	
Hexadecane (C16)	2.2	0.2	mg/kg wet	2.500		89	40-140	0.2	25	
Nonadecane (C19)	2.3	0.2	mg/kg wet	2.500		94	40-140	2	25	
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		63	30-140	0.08	25	
Octacosane (C28)	2.3	0.2	mg/kg wet	2.500		92	40-140	0.9	25	
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		92	40-140	1	25	
Tetracosane (C24)	2.2	0.2	mg/kg wet	2.500		86	40-140	0.5	25	
Tetradecane (C14)	2.1	0.2	mg/kg wet	2.500		84	40-140	1	25	
Total Petroleum Hydrocarbons	32.3	37.5	mg/kg wet	35.00		92	40-140	0.9	25	
Triacotane (C30)	2.3	0.2	mg/kg wet	2.500		90	40-140	1	25	

Surrogate: *O-Terphenyl* 3.64 mg/kg wet 5.000 73 40-140

8270D Semi-Volatile Organic Compounds

Batch DG31858 - 3546

Blank										
1,1-Biphenyl	ND	0.025	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							
1,4-Dichlorobenzene	ND	0.250	mg/kg wet							
2,3,4,6-Tetrachlorophenol	ND	0.250	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet							
2,4-Dichlorophenol	ND	0.250	mg/kg wet							
2,4-Dimethylphenol	ND	0.250	mg/kg wet							
2,4-Dinitrophenol	ND	1.00	mg/kg wet							
2,4-Dinitrotoluene	ND	0.250	mg/kg wet							
2,6-Dinitrotoluene	ND	0.250	mg/kg wet							
2-Chloronaphthalene	ND	0.250	mg/kg wet							
2-Chlorophenol	ND	0.250	mg/kg wet							
2-Methylnaphthalene	ND	0.250	mg/kg wet							
2-Methylphenol	ND	0.250	mg/kg wet							
2-Nitroaniline	ND	0.500	mg/kg wet							
2-Nitrophenol	ND	0.500	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet							
3+4-Methylphenol	ND	0.250	mg/kg wet							
3-Nitroaniline	ND	0.500	mg/kg wet							
4,6-Dinitro-2-Methylphenol	ND	1.00	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet							
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet							
4-Chloroaniline	ND	0.250	mg/kg wet							
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet							



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8270D Semi-Volatile Organic Compounds

Batch DG31858 - 3546

4-Nitroaniline	ND	0.500	mg/kg wet
4-Nitrophenol	ND	1.00	mg/kg wet
Acenaphthene	ND	0.250	mg/kg wet
Acenaphthylene	ND	0.250	mg/kg wet
Acetophenone	ND	0.250	mg/kg wet
Aniline	ND	0.250	mg/kg wet
Anthracene	ND	0.250	mg/kg wet
Azobenzene	ND	0.250	mg/kg wet
Benzo(a)anthracene	ND	0.250	mg/kg wet
Benzo(a)pyrene	ND	0.250	mg/kg wet
Benzo(b)fluoranthene	ND	0.250	mg/kg wet
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet
Benzo(k)fluoranthene	ND	0.250	mg/kg wet
Benzoic Acid	ND	2.50	mg/kg wet
Benzyl Alcohol	ND	0.500	mg/kg wet
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet
bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet
Butylbenzylphthalate	ND	0.250	mg/kg wet
Carbazole	ND	0.250	mg/kg wet
Chrysene	ND	0.250	mg/kg wet
Dibenzo(a,h)Anthracene	ND	0.250	mg/kg wet
Dibenzofuran	ND	0.250	mg/kg wet
Diethylphthalate	ND	0.250	mg/kg wet
Dimethylphthalate	ND	0.250	mg/kg wet
Di-n-butylphthalate	ND	0.250	mg/kg wet
Di-n-octylphthalate	ND	0.500	mg/kg wet
Fluoranthene	ND	0.250	mg/kg wet
Fluorene	ND	0.250	mg/kg wet
Hexachlorobenzene	ND	0.250	mg/kg wet
Hexachlorobutadiene	ND	0.250	mg/kg wet
Hexachlorocyclopentadiene	ND	0.500	mg/kg wet
Hexachloroethane	ND	0.250	mg/kg wet
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet
Isophorone	ND	0.250	mg/kg wet
Naphthalene	ND	0.250	mg/kg wet
Nitrobenzene	ND	0.250	mg/kg wet
N-Nitrosodimethylamine	ND	0.250	mg/kg wet
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet
N-nitrosodiphenylamine	ND	0.250	mg/kg wet
Pentachlorophenol	ND	1.00	mg/kg wet
Phenanthrene	ND	0.250	mg/kg wet
Phenol	ND	0.250	mg/kg wet
Pyrene	ND	0.250	mg/kg wet



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8270D Semi-Volatile Organic Compounds

Batch DG31858 - 3546

Pyridine	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.45		mg/kg wet	2.500		98	30-130			
Surrogate: 2,4,6-Tribromophenol	3.96		mg/kg wet	3.750		106	30-130			
Surrogate: 2-Chlorophenol-d4	3.68		mg/kg wet	3.750		98	30-130			
Surrogate: 2-Fluorobiphenyl	2.45		mg/kg wet	2.500		98	30-130			
Surrogate: 2-Fluorophenol	3.58		mg/kg wet	3.750		96	30-130			
Surrogate: Nitrobenzene-d5	2.54		mg/kg wet	2.500		102	30-130			
Surrogate: Phenol-d6	3.83		mg/kg wet	3.750		102	30-130			
Surrogate: p-Terphenyl-d14	2.65		mg/kg wet	2.500		106	30-130			

LCS

1,1-Biphenyl	2.37	0.025	mg/kg wet	2.500		95	40-140			
1,2,4-Trichlorobenzene	2.04	0.250	mg/kg wet	2.500		82	40-140			
1,2-Dichlorobenzene	2.28	0.250	mg/kg wet	2.500		91	40-140			
1,3-Dichlorobenzene	2.18	0.250	mg/kg wet	2.500		87	40-140			
1,4-Dichlorobenzene	2.34	0.250	mg/kg wet	2.500		94	40-140			
2,3,4,6-Tetrachlorophenol	2.70	0.250	mg/kg wet	2.500		108	30-130			
2,4,5-Trichlorophenol	2.56	0.250	mg/kg wet	2.500		102	30-130			
2,4,6-Trichlorophenol	2.22	0.250	mg/kg wet	2.500		89	30-130			
2,4-Dichlorophenol	2.25	0.250	mg/kg wet	2.500		90	30-130			
2,4-Dimethylphenol	2.21	0.250	mg/kg wet	2.500		88	30-130			
2,4-Dinitrophenol	2.70	1.00	mg/kg wet	2.500		108	30-130			
2,4-Dinitrotoluene	2.71	0.250	mg/kg wet	2.500		109	40-140			
2,6-Dinitrotoluene	2.55	0.250	mg/kg wet	2.500		102	40-140			
2-Chloronaphthalene	2.43	0.250	mg/kg wet	2.500		97	40-140			
2-Chlorophenol	2.37	0.250	mg/kg wet	2.500		95	30-130			
2-Methylnaphthalene	2.20	0.250	mg/kg wet	2.500		88	40-140			
2-Methylphenol	2.44	0.250	mg/kg wet	2.500		97	30-130			
2-Nitroaniline	2.97	0.500	mg/kg wet	2.500		119	40-140			
2-Nitrophenol	2.12	0.500	mg/kg wet	2.500		85	30-130			
3,3'-Dichlorobenzidine	2.20	0.250	mg/kg wet	2.500		88	40-140			
3+4-Methylphenol	5.08	0.250	mg/kg wet	5.000		102	30-130			
3-Nitroaniline	2.84	0.500	mg/kg wet	2.500		113	40-140			
4,6-Dinitro-2-Methylphenol	2.81	1.00	mg/kg wet	2.500		113	30-130			
4-Bromophenyl-phenylether	2.44	0.250	mg/kg wet	2.500		98	40-140			
4-Chloro-3-Methylphenol	2.42	0.250	mg/kg wet	2.500		97	30-130			
4-Chloroaniline	2.10	0.250	mg/kg wet	2.500		84	40-140			
4-Chloro-phenyl-phenyl ether	2.52	0.250	mg/kg wet	2.500		101	40-140			
4-Nitroaniline	2.64	0.500	mg/kg wet	2.500		106	40-140			
4-Nitrophenol	2.25	1.00	mg/kg wet	2.500		90	30-130			
Acenaphthene	2.41	0.250	mg/kg wet	2.500		96	40-140			
Acenaphthylene	2.56	0.250	mg/kg wet	2.500		102	40-140			
Acetophenone	2.41	0.250	mg/kg wet	2.500		96	40-140			
Aniline	1.79	0.250	mg/kg wet	2.500		72	40-140			
Anthracene	2.60	0.250	mg/kg wet	2.500		104	40-140			
Azobenzene	2.26	0.250	mg/kg wet	2.500		90	40-140			



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8270D Semi-Volatile Organic Compounds

Batch DG31858 - 3546

Benzo(a)anthracene	2.52	0.250	mg/kg wet	2.500		101	40-140			
Benzo(a)pyrene	2.85	0.250	mg/kg wet	2.500		114	40-140			
Benzo(b)fluoranthene	2.62	0.250	mg/kg wet	2.500		105	40-140			
Benzo(g,h,i)perylene	2.23	0.250	mg/kg wet	2.500		89	40-140			
Benzo(k)fluoranthene	2.61	0.250	mg/kg wet	2.500		105	40-140			
Benzoic Acid	1.69	2.50	mg/kg wet	2.500		67	40-140			
Benzyl Alcohol	1.99	0.500	mg/kg wet	2.500		80	40-140			
bis(2-Chloroethoxy)methane	1.95	0.250	mg/kg wet	2.500		78	40-140			
bis(2-Chloroethyl)ether	2.44	0.250	mg/kg wet	2.500		97	40-140			
bis(2-chloroisopropyl)Ether	2.05	0.250	mg/kg wet	2.500		82	40-140			
bis(2-Ethylhexyl)phthalate	2.40	0.250	mg/kg wet	2.500		96	40-140			
Butylbenzylphthalate	2.49	0.250	mg/kg wet	2.500		100	40-140			
Carbazole	2.67	0.250	mg/kg wet	2.500		107	40-140			
Chrysene	2.56	0.250	mg/kg wet	2.500		102	40-140			
Dibenzo(a,h)Anthracene	2.34	0.250	mg/kg wet	2.500		94	40-140			
Dibenzofuran	2.52	0.250	mg/kg wet	2.500		101	40-140			
Diethylphthalate	2.50	0.250	mg/kg wet	2.500		100	40-140			
Dimethylphthalate	2.49	0.250	mg/kg wet	2.500		100	40-140			
Di-n-butylphthalate	2.55	0.250	mg/kg wet	2.500		102	40-140			
Di-n-octylphthalate	2.90	0.500	mg/kg wet	2.500		116	40-140			
Fluoranthene	2.92	0.250	mg/kg wet	2.500		117	40-140			
Fluorene	2.60	0.250	mg/kg wet	2.500		104	40-140			
Hexachlorobenzene	2.44	0.250	mg/kg wet	2.500		98	40-140			
Hexachlorobutadiene	2.06	0.250	mg/kg wet	2.500		82	40-140			
Hexachlorocyclopentadiene	1.87	0.500	mg/kg wet	2.500		75	40-140			
Hexachloroethane	2.21	0.250	mg/kg wet	2.500		88	40-140			
Indeno(1,2,3-cd)Pyrene	2.11	0.250	mg/kg wet	2.500		84	40-140			
Isophorone	2.01	0.250	mg/kg wet	2.500		80	40-140			
Naphthalene	2.05	0.250	mg/kg wet	2.500		82	40-140			
Nitrobenzene	2.13	0.250	mg/kg wet	2.500		85	40-140			
N-Nitrosodimethylamine	1.79	0.250	mg/kg wet	2.500		72	40-140			
N-Nitroso-Di-n-Propylamine	2.29	0.250	mg/kg wet	2.500		92	40-140			
N-nitrosodiphenylamine	1.97	0.250	mg/kg wet	2.500		79	40-140			
Pentachlorophenol	2.26	1.00	mg/kg wet	2.500		90	30-130			
Phenanthrene	2.40	0.250	mg/kg wet	2.500		96	40-140			
Phenol	2.83	0.250	mg/kg wet	2.500		113	30-130			
Pyrene	2.51	0.250	mg/kg wet	2.500		100	40-140			
Pyridine	2.18	0.250	mg/kg wet	2.500		87	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.64		mg/kg wet	2.500		106	30-130			
Surrogate: 2,4,6-Tribromophenol	4.41		mg/kg wet	3.750		118	30-130			
Surrogate: 2-Chlorophenol-d4	4.07		mg/kg wet	3.750		108	30-130			
Surrogate: 2-Fluorobiphenyl	2.72		mg/kg wet	2.500		109	30-130			
Surrogate: 2-Fluorophenol	3.98		mg/kg wet	3.750		106	30-130			
Surrogate: Nitrobenzene-d5	2.51		mg/kg wet	2.500		100	30-130			
Surrogate: Phenol-d6	4.28		mg/kg wet	3.750		114	30-130			
Surrogate: p-Terphenyl-d14	2.85		mg/kg wet	2.500		114	30-130			



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31858 - 3546

LCS Dup

1,1-Biphenyl	2.32	0.025	mg/kg wet	2.500		93	40-140	2	30	
1,2,4-Trichlorobenzene	2.03	0.250	mg/kg wet	2.500		81	40-140	0.4	30	
1,2-Dichlorobenzene	2.28	0.250	mg/kg wet	2.500		91	40-140	0.2	30	
1,3-Dichlorobenzene	2.16	0.250	mg/kg wet	2.500		86	40-140	0.8	30	
1,4-Dichlorobenzene	2.30	0.250	mg/kg wet	2.500		92	40-140	2	30	
2,3,4,6-Tetrachlorophenol	2.59	0.250	mg/kg wet	2.500		103	30-130	4	30	
2,4,5-Trichlorophenol	2.46	0.250	mg/kg wet	2.500		99	30-130	4	30	
2,4,6-Trichlorophenol	2.22	0.250	mg/kg wet	2.500		89	30-130	0.1	30	
2,4-Dichlorophenol	2.19	0.250	mg/kg wet	2.500		88	30-130	3	30	
2,4-Dimethylphenol	2.17	0.250	mg/kg wet	2.500		87	30-130	2	30	
2,4-Dinitrophenol	2.66	1.00	mg/kg wet	2.500		106	30-130	1	30	
2,4-Dinitrotoluene	2.64	0.250	mg/kg wet	2.500		106	40-140	3	30	
2,6-Dinitrotoluene	2.46	0.250	mg/kg wet	2.500		99	40-140	3	30	
2-Chloronaphthalene	2.38	0.250	mg/kg wet	2.500		95	40-140	2	30	
2-Chlorophenol	2.32	0.250	mg/kg wet	2.500		93	30-130	2	30	
2-Methylnaphthalene	2.11	0.250	mg/kg wet	2.500		84	40-140	4	30	
2-Methylphenol	2.33	0.250	mg/kg wet	2.500		93	30-130	5	30	
2-Nitroaniline	2.84	0.500	mg/kg wet	2.500		114	40-140	4	30	
2-Nitrophenol	2.11	0.500	mg/kg wet	2.500		85	30-130	0.2	30	
3,3'-Dichlorobenzidine	2.20	0.250	mg/kg wet	2.500		88	40-140	0.06	30	
3+4-Methylphenol	4.86	0.250	mg/kg wet	5.000		97	30-130	4	30	
3-Nitroaniline	2.70	0.500	mg/kg wet	2.500		108	40-140	5	30	
4,6-Dinitro-2-Methylphenol	2.82	1.00	mg/kg wet	2.500		113	30-130	0.1	30	
4-Bromophenyl-phenylether	2.35	0.250	mg/kg wet	2.500		94	40-140	4	30	
4-Chloro-3-Methylphenol	2.30	0.250	mg/kg wet	2.500		92	30-130	5	30	
4-Chloroaniline	2.07	0.250	mg/kg wet	2.500		83	40-140	2	30	
4-Chloro-phenyl-phenyl ether	2.45	0.250	mg/kg wet	2.500		98	40-140	3	30	
4-Nitroaniline	2.57	0.500	mg/kg wet	2.500		103	40-140	3	30	
4-Nitrophenol	2.27	1.00	mg/kg wet	2.500		91	30-130	0.9	30	
Acenaphthene	2.37	0.250	mg/kg wet	2.500		95	40-140	2	30	
Acenaphthylene	2.52	0.250	mg/kg wet	2.500		101	40-140	1	30	
Acetophenone	2.33	0.250	mg/kg wet	2.500		93	40-140	3	30	
Aniline	1.76	0.250	mg/kg wet	2.500		71	40-140	1	30	
Anthracene	2.48	0.250	mg/kg wet	2.500		99	40-140	5	30	
Azobenzene	2.19	0.250	mg/kg wet	2.500		88	40-140	3	30	
Benzo(a)anthracene	2.45	0.250	mg/kg wet	2.500		98	40-140	3	30	
Benzo(a)pyrene	2.73	0.250	mg/kg wet	2.500		109	40-140	4	30	
Benzo(b)fluoranthene	2.53	0.250	mg/kg wet	2.500		101	40-140	3	30	
Benzo(g,h,i)perylene	2.11	0.250	mg/kg wet	2.500		84	40-140	5	30	
Benzo(k)fluoranthene	2.52	0.250	mg/kg wet	2.500		101	40-140	4	30	
Benzoic Acid	1.59	2.50	mg/kg wet	2.500		63	40-140	6	30	
Benzyl Alcohol	1.89	0.500	mg/kg wet	2.500		76	40-140	5	30	
bis(2-Chloroethoxy)methane	1.91	0.250	mg/kg wet	2.500		76	40-140	2	30	
bis(2-Chloroethyl)ether	2.38	0.250	mg/kg wet	2.500		95	40-140	2	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31858 - 3546

bis(2-chloroisopropyl)Ether	2.03	0.250	mg/kg wet	2.500		81	40-140	1	30	
bis(2-Ethylhexyl)phthalate	2.12	0.250	mg/kg wet	2.500		85	40-140	13	30	
Butylbenzylphthalate	2.25	0.250	mg/kg wet	2.500		90	40-140	10	30	
Carbazole	2.63	0.250	mg/kg wet	2.500		105	40-140	1	30	
Chrysene	2.46	0.250	mg/kg wet	2.500		98	40-140	4	30	
Dibenzo(a,h)Anthracene	2.23	0.250	mg/kg wet	2.500		89	40-140	5	30	
Dibenzofuran	2.43	0.250	mg/kg wet	2.500		97	40-140	4	30	
Diethylphthalate	2.41	0.250	mg/kg wet	2.500		96	40-140	4	30	
Dimethylphthalate	2.47	0.250	mg/kg wet	2.500		99	40-140	1	30	
Di-n-butylphthalate	2.43	0.250	mg/kg wet	2.500		97	40-140	5	30	
Di-n-octylphthalate	2.57	0.500	mg/kg wet	2.500		103	40-140	12	30	
Fluoranthene	2.87	0.250	mg/kg wet	2.500		115	40-140	2	30	
Fluorene	2.52	0.250	mg/kg wet	2.500		101	40-140	3	30	
Hexachlorobenzene	2.35	0.250	mg/kg wet	2.500		94	40-140	4	30	
Hexachlorobutadiene	2.09	0.250	mg/kg wet	2.500		84	40-140	1	30	
Hexachlorocyclopentadiene	1.94	0.500	mg/kg wet	2.500		77	40-140	3	30	
Hexachloroethane	2.18	0.250	mg/kg wet	2.500		87	40-140	1	30	
Indeno(1,2,3-cd)Pyrene	2.05	0.250	mg/kg wet	2.500		82	40-140	3	30	
Isophorone	1.99	0.250	mg/kg wet	2.500		80	40-140	1	30	
Naphthalene	2.00	0.250	mg/kg wet	2.500		80	40-140	2	30	
Nitrobenzene	2.12	0.250	mg/kg wet	2.500		85	40-140	0.6	30	
N-Nitrosodimethylamine	1.78	0.250	mg/kg wet	2.500		71	40-140	0.8	30	
N-Nitroso-Di-n-Propylamine	2.23	0.250	mg/kg wet	2.500		89	40-140	3	30	
N-nitrosodiphenylamine	1.90	0.250	mg/kg wet	2.500		76	40-140	3	30	
Pentachlorophenol	2.28	1.00	mg/kg wet	2.500		91	30-130	0.9	30	
Phenanthrene	2.33	0.250	mg/kg wet	2.500		93	40-140	3	30	
Phenol	2.74	0.250	mg/kg wet	2.500		110	30-130	3	30	
Pyrene	2.25	0.250	mg/kg wet	2.500		90	40-140	11	30	
Pyridine	2.20	0.250	mg/kg wet	2.500		88	40-140	0.9	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.51		mg/kg wet	2.500		100	30-130			
Surrogate: 2,4,6-Tribromophenol	4.09		mg/kg wet	3.750		109	30-130			
Surrogate: 2-Chlorophenol-d4	3.83		mg/kg wet	3.750		102	30-130			
Surrogate: 2-Fluorobiphenyl	2.58		mg/kg wet	2.500		103	30-130			
Surrogate: 2-Fluorophenol	3.64		mg/kg wet	3.750		97	30-130			
Surrogate: Nitrobenzene-d5	2.39		mg/kg wet	2.500		95	30-130			
Surrogate: Phenol-d6	3.99		mg/kg wet	3.750		106	30-130			
Surrogate: p-Terphenyl-d14	2.44		mg/kg wet	2.500		97	30-130			

Batch DG31953 - 3546

Blank										
1,1-Biphenyl	ND	0.025	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							
1,4-Dichlorobenzene	ND	0.250	mg/kg wet							
2,3,4,6-Tetrachlorophenol	ND	0.250	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

2,4,5-Trichlorophenol	ND	0.250	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet							
2,4-Dichlorophenol	ND	0.250	mg/kg wet							
2,4-Dimethylphenol	ND	0.250	mg/kg wet							
2,4-Dinitrophenol	ND	1.00	mg/kg wet							
2,4-Dinitrotoluene	ND	0.250	mg/kg wet							
2,6-Dinitrotoluene	ND	0.250	mg/kg wet							
2-Chloronaphthalene	ND	0.250	mg/kg wet							
2-Chlorophenol	ND	0.250	mg/kg wet							
2-Methylnaphthalene	ND	0.250	mg/kg wet							
2-Methylphenol	ND	0.250	mg/kg wet							
2-Nitroaniline	ND	0.500	mg/kg wet							
2-Nitrophenol	ND	0.500	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet							
3+4-Methylphenol	ND	0.250	mg/kg wet							
3-Nitroaniline	ND	0.500	mg/kg wet							
4,6-Dinitro-2-Methylphenol	ND	1.00	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet							
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet							
4-Chloroaniline	ND	0.250	mg/kg wet							
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet							
4-Nitroaniline	ND	0.500	mg/kg wet							
4-Nitrophenol	ND	1.00	mg/kg wet							
Acenaphthene	ND	0.250	mg/kg wet							
Acenaphthylene	ND	0.250	mg/kg wet							
Acetophenone	ND	0.250	mg/kg wet							
Aniline	ND	0.250	mg/kg wet							
Anthracene	ND	0.250	mg/kg wet							
Azobenzene	ND	0.250	mg/kg wet							
Benzo(a)anthracene	ND	0.250	mg/kg wet							
Benzo(a)pyrene	ND	0.250	mg/kg wet							
Benzo(b)fluoranthene	ND	0.250	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet							
Benzo(k)fluoranthene	ND	0.250	mg/kg wet							
Benzoic Acid	ND	2.50	mg/kg wet							
Benzyl Alcohol	ND	0.500	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet							
Butylbenzylphthalate	ND	0.250	mg/kg wet							
Carbazole	ND	0.250	mg/kg wet							
Chrysene	ND	0.250	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.250	mg/kg wet							
Dibenzofuran	ND	0.250	mg/kg wet							



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

Diethylphthalate	ND	0.250	mg/kg wet							
Dimethylphthalate	ND	0.250	mg/kg wet							
Di-n-butylphthalate	ND	0.250	mg/kg wet							
Di-n-octylphthalate	ND	0.500	mg/kg wet							
Fluoranthene	ND	0.250	mg/kg wet							
Fluorene	ND	0.250	mg/kg wet							
Hexachlorobenzene	ND	0.250	mg/kg wet							
Hexachlorobutadiene	ND	0.250	mg/kg wet							
Hexachlorocyclopentadiene	ND	0.500	mg/kg wet							
Hexachloroethane	ND	0.250	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet							
Isophorone	ND	0.250	mg/kg wet							
Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet							
N-nitrosodiphenylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	1.00	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Pyridine	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.35		mg/kg wet	2.500		94	30-130			
Surrogate: 2,4,6-Tribromophenol	3.61		mg/kg wet	3.750		96	30-130			
Surrogate: 2-Chlorophenol-d4	3.63		mg/kg wet	3.750		97	30-130			
Surrogate: 2-Fluorobiphenyl	2.28		mg/kg wet	2.500		91	30-130			
Surrogate: 2-Fluorophenol	3.42		mg/kg wet	3.750		91	30-130			
Surrogate: Nitrobenzene-d5	2.45		mg/kg wet	2.500		98	30-130			
Surrogate: Phenol-d6	3.80		mg/kg wet	3.750		101	30-130			
Surrogate: p-Terphenyl-d14	2.51		mg/kg wet	2.500		100	30-130			

LCS

1,1-Biphenyl	2.23	0.025	mg/kg wet	2.500		89	40-140			
1,2,4-Trichlorobenzene	1.96	0.250	mg/kg wet	2.500		78	40-140			
1,2-Dichlorobenzene	2.22	0.250	mg/kg wet	2.500		89	40-140			
1,3-Dichlorobenzene	2.07	0.250	mg/kg wet	2.500		83	40-140			
1,4-Dichlorobenzene	2.20	0.250	mg/kg wet	2.500		88	40-140			
2,3,4,6-Tetrachlorophenol	2.56	0.250	mg/kg wet	2.500		103	30-130			
2,4,5-Trichlorophenol	2.43	0.250	mg/kg wet	2.500		97	30-130			
2,4,6-Trichlorophenol	2.12	0.250	mg/kg wet	2.500		85	30-130			
2,4-Dichlorophenol	2.12	0.250	mg/kg wet	2.500		85	30-130			
2,4-Dimethylphenol	2.09	0.250	mg/kg wet	2.500		83	30-130			
2,4-Dinitrophenol	2.41	1.00	mg/kg wet	2.500		96	30-130			
2,4-Dinitrotoluene	2.59	0.250	mg/kg wet	2.500		104	40-140			
2,6-Dinitrotoluene	2.43	0.250	mg/kg wet	2.500		97	40-140			
2-Chloronaphthalene	2.30	0.250	mg/kg wet	2.500		92	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

2-Chlorophenol	2.21	0.250	mg/kg wet	2.500		88	30-130			
2-Methylnaphthalene	2.07	0.250	mg/kg wet	2.500		83	40-140			
2-Methylphenol	2.31	0.250	mg/kg wet	2.500		93	30-130			
2-Nitroaniline	2.77	0.500	mg/kg wet	2.500		111	40-140			
2-Nitrophenol	2.01	0.500	mg/kg wet	2.500		80	30-130			
3,3'-Dichlorobenzidine	2.01	0.250	mg/kg wet	2.500		81	40-140			
3+4-Methylphenol	4.82	0.250	mg/kg wet	5.000		96	30-130			
3-Nitroaniline	2.65	0.500	mg/kg wet	2.500		106	40-140			
4,6-Dinitro-2-Methylphenol	2.57	1.00	mg/kg wet	2.500		103	30-130			
4-Bromophenyl-phenylether	2.28	0.250	mg/kg wet	2.500		91	40-140			
4-Chloro-3-Methylphenol	2.28	0.250	mg/kg wet	2.500		91	30-130			
4-Chloroaniline	1.91	0.250	mg/kg wet	2.500		77	40-140			
4-Chloro-phenyl-phenyl ether	2.40	0.250	mg/kg wet	2.500		96	40-140			
4-Nitroaniline	2.43	0.500	mg/kg wet	2.500		97	40-140			
4-Nitrophenol	2.00	1.00	mg/kg wet	2.500		80	30-130			
Acenaphthene	2.31	0.250	mg/kg wet	2.500		92	40-140			
Acenaphthylene	2.45	0.250	mg/kg wet	2.500		98	40-140			
Acetophenone	2.26	0.250	mg/kg wet	2.500		90	40-140			
Aniline	1.39	0.250	mg/kg wet	2.500		56	40-140			
Anthracene	2.40	0.250	mg/kg wet	2.500		96	40-140			
Azobenzene	2.09	0.250	mg/kg wet	2.500		84	40-140			
Benzo(a)anthracene	2.36	0.250	mg/kg wet	2.500		94	40-140			
Benzo(a)pyrene	2.56	0.250	mg/kg wet	2.500		103	40-140			
Benzo(b)fluoranthene	2.44	0.250	mg/kg wet	2.500		98	40-140			
Benzo(g,h,i)perylene	2.06	0.250	mg/kg wet	2.500		82	40-140			
Benzo(k)fluoranthene	2.42	0.250	mg/kg wet	2.500		97	40-140			
Benzoic Acid	1.51	2.50	mg/kg wet	2.500		61	40-140			
Benzyl Alcohol	1.80	0.500	mg/kg wet	2.500		72	40-140			
bis(2-Chloroethoxy)methane	1.85	0.250	mg/kg wet	2.500		74	40-140			
bis(2-Chloroethyl)ether	2.32	0.250	mg/kg wet	2.500		93	40-140			
bis(2-chloroisopropyl)Ether	1.95	0.250	mg/kg wet	2.500		78	40-140			
bis(2-Ethylhexyl)phthalate	2.34	0.250	mg/kg wet	2.500		93	40-140			
Butylbenzylphthalate	2.46	0.250	mg/kg wet	2.500		98	40-140			
Carbazole	2.47	0.250	mg/kg wet	2.500		99	40-140			
Chrysene	2.39	0.250	mg/kg wet	2.500		96	40-140			
Dibenzo(a,h)Anthracene	2.14	0.250	mg/kg wet	2.500		86	40-140			
Dibenzofuran	2.40	0.250	mg/kg wet	2.500		96	40-140			
Diethylphthalate	2.38	0.250	mg/kg wet	2.500		95	40-140			
Dimethylphthalate	2.40	0.250	mg/kg wet	2.500		96	40-140			
Di-n-butylphthalate	2.33	0.250	mg/kg wet	2.500		93	40-140			
Di-n-octylphthalate	2.86	0.500	mg/kg wet	2.500		115	40-140			
Fluoranthene	2.69	0.250	mg/kg wet	2.500		107	40-140			
Fluorene	2.48	0.250	mg/kg wet	2.500		99	40-140			
Hexachlorobenzene	2.27	0.250	mg/kg wet	2.500		91	40-140			
Hexachlorobutadiene	1.99	0.250	mg/kg wet	2.500		80	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

Hexachlorocyclopentadiene	1.67	0.500	mg/kg wet	2.500		67	40-140			
Hexachloroethane	2.07	0.250	mg/kg wet	2.500		83	40-140			
Indeno(1,2,3-cd)Pyrene	1.94	0.250	mg/kg wet	2.500		78	40-140			
Isophorone	1.91	0.250	mg/kg wet	2.500		76	40-140			
Naphthalene	1.95	0.250	mg/kg wet	2.500		78	40-140			
Nitrobenzene	2.06	0.250	mg/kg wet	2.500		82	40-140			
N-Nitrosodimethylamine	1.70	0.250	mg/kg wet	2.500		68	40-140			
N-Nitroso-Di-n-Propylamine	2.13	0.250	mg/kg wet	2.500		85	40-140			
N-nitrosodiphenylamine	1.75	0.250	mg/kg wet	2.500		70	40-140			
Pentachlorophenol	1.97	1.00	mg/kg wet	2.500		79	30-130			
Phenanthrene	2.23	0.250	mg/kg wet	2.500		89	40-140			
Phenol	2.69	0.250	mg/kg wet	2.500		108	30-130			
Pyrene	2.50	0.250	mg/kg wet	2.500		100	40-140			
Pyridine	2.13	0.250	mg/kg wet	2.500		85	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.16		mg/kg wet	2.500		87	30-130			
Surrogate: 2,4,6-Tribromophenol	3.50		mg/kg wet	3.750		93	30-130			
Surrogate: 2-Chlorophenol-d4	3.37		mg/kg wet	3.750		90	30-130			
Surrogate: 2-Fluorobiphenyl	2.23		mg/kg wet	2.500		89	30-130			
Surrogate: 2-Fluorophenol	3.26		mg/kg wet	3.750		87	30-130			
Surrogate: Nitrobenzene-d5	2.07		mg/kg wet	2.500		83	30-130			
Surrogate: Phenol-d6	3.51		mg/kg wet	3.750		94	30-130			
Surrogate: p-Terphenyl-d14	2.32		mg/kg wet	2.500		93	30-130			

LCS Dup

1,1-Biphenyl	2.01	0.025	mg/kg wet	2.500		80	40-140	10	30	
1,2,4-Trichlorobenzene	1.79	0.250	mg/kg wet	2.500		71	40-140	9	30	
1,2-Dichlorobenzene	1.96	0.250	mg/kg wet	2.500		78	40-140	13	30	
1,3-Dichlorobenzene	1.87	0.250	mg/kg wet	2.500		75	40-140	10	30	
1,4-Dichlorobenzene	2.02	0.250	mg/kg wet	2.500		81	40-140	9	30	
2,3,4,6-Tetrachlorophenol	2.18	0.250	mg/kg wet	2.500		87	30-130	16	30	
2,4,5-Trichlorophenol	2.13	0.250	mg/kg wet	2.500		85	30-130	13	30	
2,4,6-Trichlorophenol	1.86	0.250	mg/kg wet	2.500		74	30-130	13	30	
2,4-Dichlorophenol	1.91	0.250	mg/kg wet	2.500		76	30-130	11	30	
2,4-Dimethylphenol	1.92	0.250	mg/kg wet	2.500		77	30-130	8	30	
2,4-Dinitrophenol	2.13	1.00	mg/kg wet	2.500		85	30-130	12	30	
2,4-Dinitrotoluene	2.23	0.250	mg/kg wet	2.500		89	40-140	15	30	
2,6-Dinitrotoluene	2.12	0.250	mg/kg wet	2.500		85	40-140	14	30	
2-Chloronaphthalene	2.06	0.250	mg/kg wet	2.500		82	40-140	11	30	
2-Chlorophenol	1.99	0.250	mg/kg wet	2.500		80	30-130	11	30	
2-Methylnaphthalene	1.89	0.250	mg/kg wet	2.500		76	40-140	9	30	
2-Methylphenol	1.98	0.250	mg/kg wet	2.500		79	30-130	16	30	
2-Nitroaniline	2.38	0.500	mg/kg wet	2.500		95	40-140	15	30	
2-Nitrophenol	1.88	0.500	mg/kg wet	2.500		75	30-130	6	30	
3,3'-Dichlorobenzidine	1.90	0.250	mg/kg wet	2.500		76	40-140	6	30	
3+4-Methylphenol	4.18	0.250	mg/kg wet	5.000		84	30-130	14	30	
3-Nitroaniline	2.24	0.500	mg/kg wet	2.500		89	40-140	17	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

4,6-Dinitro-2-Methylphenol	2.47	1.00	mg/kg wet	2.500		99	30-130	4	30	
4-Bromophenyl-phenylether	2.15	0.250	mg/kg wet	2.500		86	40-140	6	30	
4-Chloro-3-Methylphenol	2.05	0.250	mg/kg wet	2.500		82	30-130	11	30	
4-Chloroaniline	1.74	0.250	mg/kg wet	2.500		69	40-140	10	30	
4-Chloro-phenyl-phenyl ether	2.12	0.250	mg/kg wet	2.500		85	40-140	13	30	
4-Nitroaniline	2.25	0.500	mg/kg wet	2.500		90	40-140	8	30	
4-Nitrophenol	1.76	1.00	mg/kg wet	2.500		70	30-130	13	30	
Acenaphthene	2.07	0.250	mg/kg wet	2.500		83	40-140	11	30	
Acenaphthylene	2.17	0.250	mg/kg wet	2.500		87	40-140	12	30	
Acetophenone	2.04	0.250	mg/kg wet	2.500		82	40-140	10	30	
Aniline	1.25	0.250	mg/kg wet	2.500		50	40-140	11	30	
Anthracene	2.22	0.250	mg/kg wet	2.500		89	40-140	8	30	
Azobenzene	1.99	0.250	mg/kg wet	2.500		79	40-140	5	30	
Benzo(a)anthracene	2.12	0.250	mg/kg wet	2.500		85	40-140	11	30	
Benzo(a)pyrene	2.41	0.250	mg/kg wet	2.500		97	40-140	6	30	
Benzo(b)fluoranthene	2.22	0.250	mg/kg wet	2.500		89	40-140	10	30	
Benzo(g,h,i)perylene	1.85	0.250	mg/kg wet	2.500		74	40-140	11	30	
Benzo(k)fluoranthene	2.20	0.250	mg/kg wet	2.500		88	40-140	9	30	
Benzoic Acid	1.32	2.50	mg/kg wet	2.500		53	40-140	14	30	
Benzyl Alcohol	1.55	0.500	mg/kg wet	2.500		62	40-140	15	30	
bis(2-Chloroethoxy)methane	1.70	0.250	mg/kg wet	2.500		68	40-140	8	30	
bis(2-Chloroethyl)ether	2.07	0.250	mg/kg wet	2.500		83	40-140	11	30	
bis(2-chloroisopropyl)Ether	1.76	0.250	mg/kg wet	2.500		70	40-140	10	30	
bis(2-Ethylhexyl)phthalate	2.04	0.250	mg/kg wet	2.500		82	40-140	14	30	
Butylbenzylphthalate	2.12	0.250	mg/kg wet	2.500		85	40-140	15	30	
Carbazole	2.25	0.250	mg/kg wet	2.500		90	40-140	9	30	
Chrysene	2.18	0.250	mg/kg wet	2.500		87	40-140	9	30	
Dibenzo(a,h)Anthracene	1.94	0.250	mg/kg wet	2.500		78	40-140	10	30	
Dibenzofuran	2.12	0.250	mg/kg wet	2.500		85	40-140	13	30	
Diethylphthalate	2.11	0.250	mg/kg wet	2.500		84	40-140	12	30	
Dimethylphthalate	2.08	0.250	mg/kg wet	2.500		83	40-140	14	30	
Di-n-butylphthalate	2.20	0.250	mg/kg wet	2.500		88	40-140	6	30	
Di-n-octylphthalate	2.45	0.500	mg/kg wet	2.500		98	40-140	15	30	
Fluoranthene	2.46	0.250	mg/kg wet	2.500		98	40-140	9	30	
Fluorene	2.19	0.250	mg/kg wet	2.500		88	40-140	12	30	
Hexachlorobenzene	2.09	0.250	mg/kg wet	2.500		84	40-140	8	30	
Hexachlorobutadiene	1.87	0.250	mg/kg wet	2.500		75	40-140	6	30	
Hexachlorocyclopentadiene	1.61	0.500	mg/kg wet	2.500		64	40-140	4	30	
Hexachloroethane	1.90	0.250	mg/kg wet	2.500		76	40-140	8	30	
Indeno(1,2,3-cd)Pyrene	1.79	0.250	mg/kg wet	2.500		72	40-140	8	30	
Isophorone	1.76	0.250	mg/kg wet	2.500		70	40-140	8	30	
Naphthalene	1.79	0.250	mg/kg wet	2.500		72	40-140	8	30	
Nitrobenzene	1.86	0.250	mg/kg wet	2.500		74	40-140	10	30	
N-Nitrosodimethylamine	1.58	0.250	mg/kg wet	2.500		63	40-140	7	30	
N-Nitroso-Di-n-Propylamine	1.92	0.250	mg/kg wet	2.500		77	40-140	10	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

N-nitrosodiphenylamine	1.65	0.250	mg/kg wet	2.500		66	40-140	6	30	
Pentachlorophenol	1.92	1.00	mg/kg wet	2.500		77	30-130	3	30	
Phenanthrene	2.07	0.250	mg/kg wet	2.500		83	40-140	8	30	
Phenol	2.31	0.250	mg/kg wet	2.500		92	30-130	15	30	
Pyrene	2.13	0.250	mg/kg wet	2.500		85	40-140	16	30	
Pyridine	1.95	0.250	mg/kg wet	2.500		78	40-140	9	30	
Surrogate: 1,2-Dichlorobenzene-d4	1.91		mg/kg wet	2.500		76	30-130			
Surrogate: 2,4,6-Tribromophenol	3.14		mg/kg wet	3.750		84	30-130			
Surrogate: 2-Chlorophenol-d4	2.95		mg/kg wet	3.750		79	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/kg wet	2.500		80	30-130			
Surrogate: 2-Fluorophenol	2.79		mg/kg wet	3.750		74	30-130			
Surrogate: Nitrobenzene-d5	1.81		mg/kg wet	2.500		73	30-130			
Surrogate: Phenol-d6	3.01		mg/kg wet	3.750		80	30-130			
Surrogate: p-Terphenyl-d14	1.95		mg/kg wet	2.500		78	30-130			

Classical Chemistry

Batch DG32024 - General Preparation

Blank

Conductivity	ND	5	umhos/cm							
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LCS

Conductivity	1320		umhos/cm	1411	94	90-110				
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Batch DG32032 - General Preparation

Reference

Flashpoint	81		°F	81.00	100	97.9-102.1				
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Batch DG32033 - General Preparation

Reference

Flashpoint	81		°F	81.00	100	97.9-102.1				
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CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

Notes and Definitions

- Z-10a Soil pH measured in water at 21.2 °C.
- Z-10 Soil pH measured in water at 21.1 °C.
- Z-08 See Attached
- WL Results obtained from a deionized water leach of the sample.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- EL Elevated Method Reporting Limits due to sample matrix (EL).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- BT Benzidine tailing factor >2.
- B+ Blank Spike recovery is above upper control limit (B+).
- > Greater than.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probable Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0543

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>



195 Frances Avenue
 Cranston RI, 02910
 Phone: (401)-467-6454
 Fax: (401)-467-2398
cts.thielsch.com
Let's Build a Solid Foundation

Client Information:
 Downes Construction Co.
 Providence, RI
 Project Manager: Tim Thies
 Assigned By: ESS/Joe Desanti
 Collected By: Andrew Hook

Project Information:
Stockpile Characterization
Rogers High, Newport RI
 Project Number: 23G0543
 Summary Page: 1 of 1
 Report Date: 07.27.23

LABORATORY TESTING DATA SHEET, Report No.: 7423-G-175

Material Source	Sample No.	Depth (ft)	Laboratory No.	Identification Tests								Proctor / CBR / Permeability Tests							Laboratory Log and Soil Description		
				As Rcvd Moisture Content %	LL %	PL %	Gravel %	Sand %	Fines %	Org. %	pH	g_d MAX (pcf) W_{opt} (%)	g_d MAX (pcf) W_{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"		Permeability cm/sec	
				D2216	D4318	D6913			D2974	D4792	D1557										
Grab	DISP-307C	-	23G0543-01				13.8	36.2	50.0												Dark Brown sandy silty clay
Grab	DISP-307D	-	23G0543-02				14.8	42.5	42.7												Dark Brown silty clayey sand
Grab	DISP-307A	-	23G0543-03				11.9	42.5	45.6												Dark Brown silty clayey sand
Grab	DISP-307B	-	23G0543-04				2.3	14.1	83.6												Dark Brown silty clay with sand
Grab	DISP-107C	-	23G0543-05				30.5	32.9	36.6												Dark Brown silty clayey sand with gravel
Grab	DISP-107B	-	23G0543-06				30.6	32.5	36.9												Dark Brown silty clayey sand with gravel
Grab	DISP-306A	-	23G0543-07				19.8	39.8	40.4												Dark Brown silty clayey sand with gravel
Grab	DISP-306B	-	23G0543-08				24.0	38.9	37.1												Dark Brown silty clayey sand with gravel
Grab	DISP-306C	-	23G0543-09				16.2	38.4	45.4												Dark Brown silty clayey sand with gravel
Grab	DISP-306D	-	23G0543-10				13.5	43.7	42.8												Dark Brown silty clayey sand

Date Received: 07.19.23

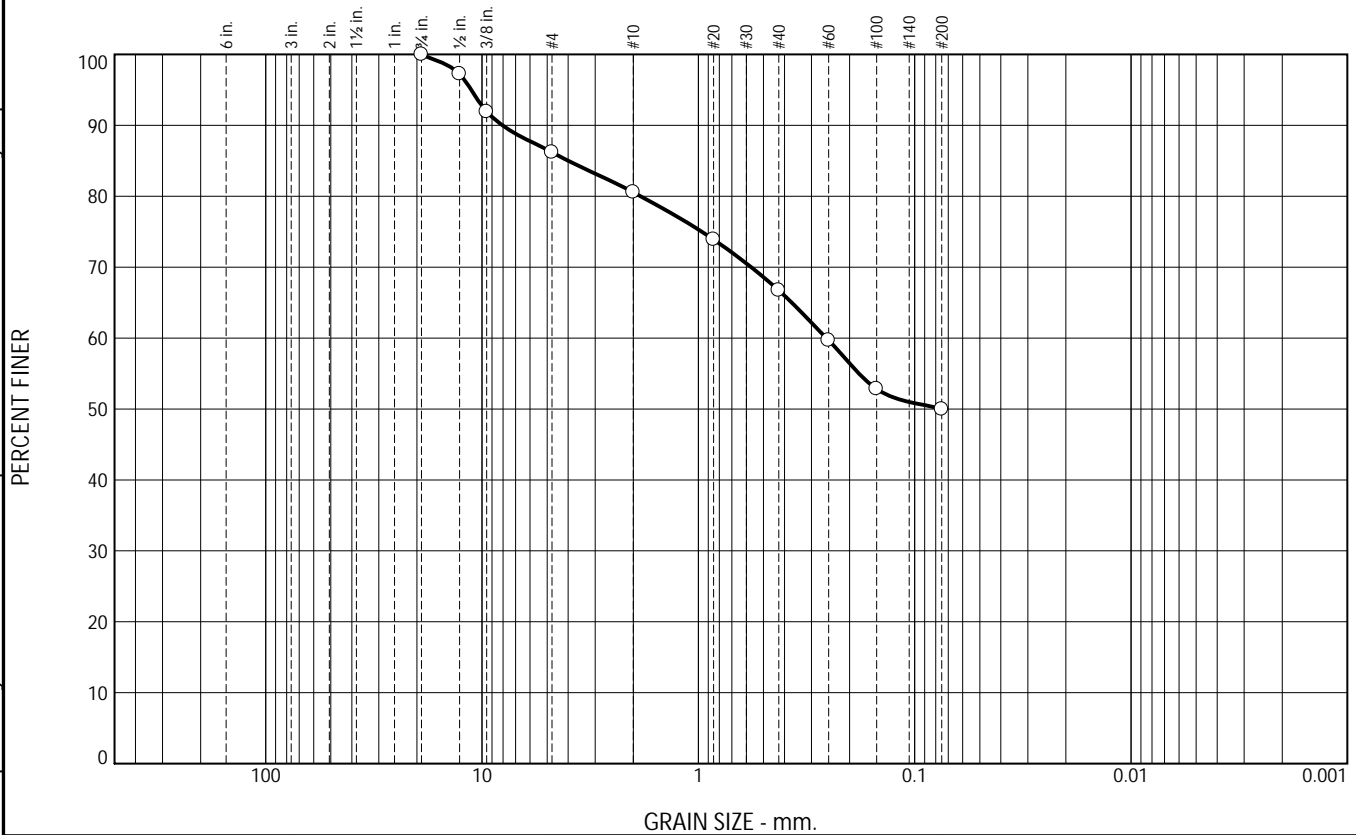
Reviewed By: 

Date Reviewed: 07.27.23

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	13.8	5.6	13.9	16.7	50.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	97.3		
3/8"	91.9		
#4	86.2		
#10	80.6		
#20	73.9		
#40	66.7		
#60	59.7		
#100	52.8		
#200	50.0		

Soil Description

Dark Brown sandy clayey silt

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 8.0409 D₈₅= 3.9941 D₆₀= 0.2560
 D₅₀= 0.0758 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= ML AASHTO= A-4(0)

Remarks
 Sample visually classified as plastic. Sample rolled to 1/8".

* (no specification provided)

Source of Sample: Grab
 Sample Number: DISP-307C

Date: 07.21.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 23G0543
Figure 23G0543-01	

Tested By: JB Checked By: Andrew Vanasse

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.8	7.3	14.2	21.0	42.7	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	92.9		
3/8"	90.8		
#4	85.2		
#10	77.9		
#20	71.0		
#40	63.7		
#60	57.0		
#100	50.8		
#200	42.7		

Soil Description

Dark Brown silty clayey sand

PL= NP Atterberg Limits LL= NV PI= NP
 D₉₀= 8.6011 Coefficients D₈₅= 4.6522 D₆₀= 0.3161
 D₅₀= 0.1398 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

* (no specification provided)

Source of Sample: Grab
Sample Number: DISP-307D

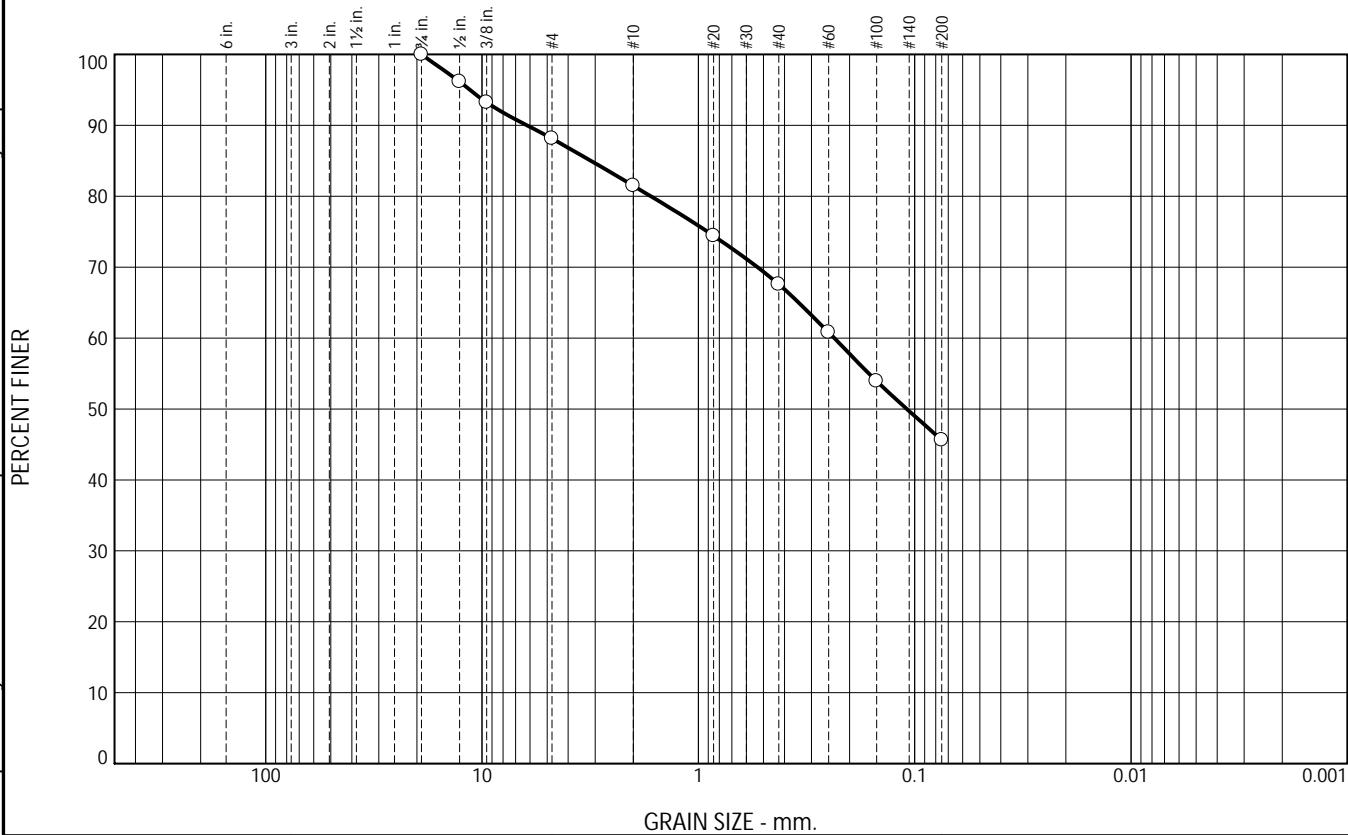
Date: 07.21.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 23G0543
Figure 23G0543-02	

Tested By: JB Checked By: Andrew Vanasse

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	11.9	6.6	13.9	22.0	45.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	96.2		
3/8"	93.2		
#4	88.1		
#10	81.5		
#20	74.4		
#40	67.6		
#60	60.8		
#100	53.9		
#200	45.6		

Soil Description

Dark Brown silty clayey sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 6.1891 D₈₅= 3.1374 D₆₀= 0.2353
 D₅₀= 0.1087 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks
 Sample visually classified as plastic. Sample rolled to 1/8".

* (no specification provided)

Source of Sample: Grab
 Sample Number: DISP-307A

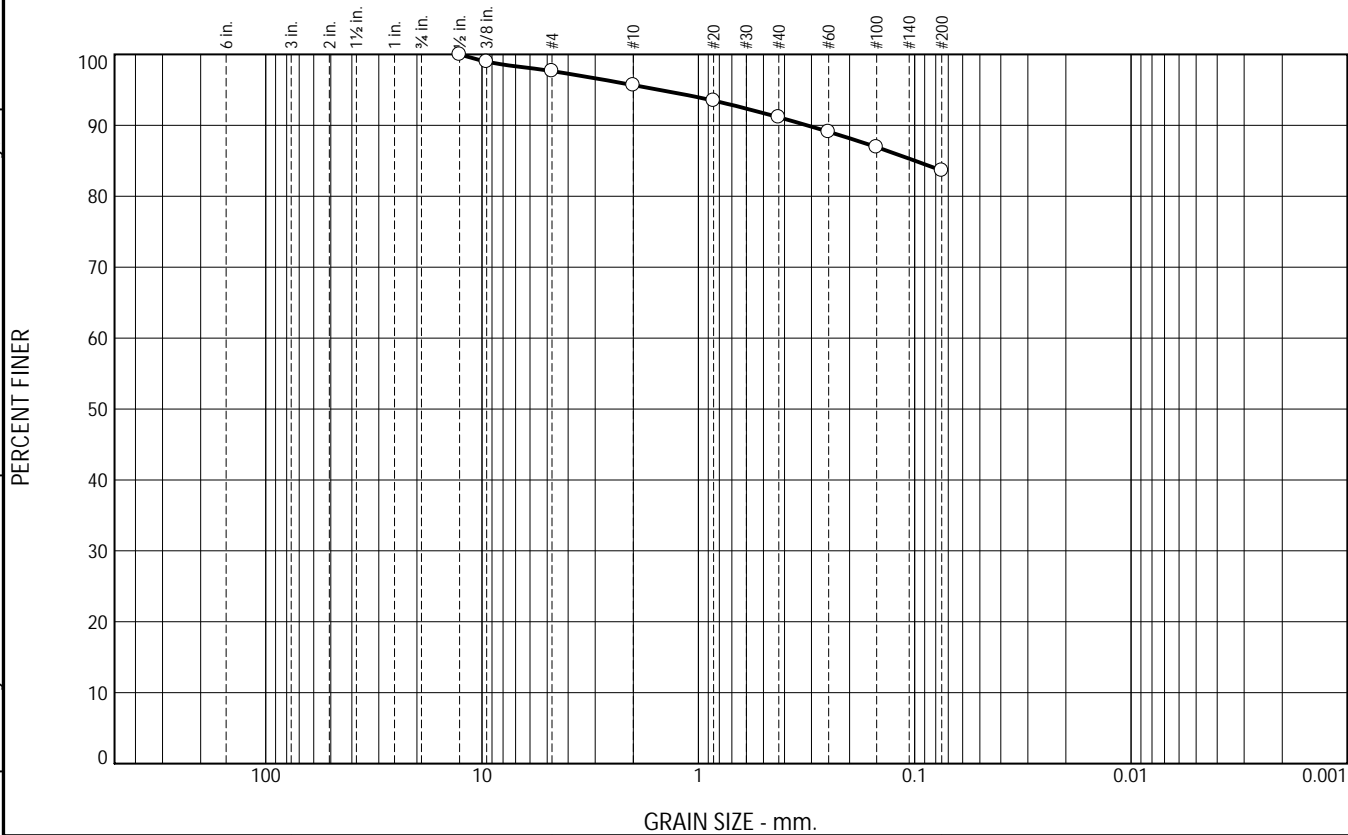
Date: 07.21.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 23G0543
Figure 23G0543-03	

Tested By: JB Checked By: Andrew Vanasse

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	2.3	2.0	4.6	7.5	83.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2"	100.0		
3/8"	99.0		
#4	97.7		
#10	95.7		
#20	93.5		
#40	91.1		
#60	89.1		
#100	86.9		
#200	83.6		

Soil Description

Dark Brown silty clay with sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 0.3139 D₈₅= 0.0996 D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= ML AASHTO= A-4(0)

Remarks
 Sample visually classified as plastic. Sample rolled to 1/8".

* (no specification provided)

Source of Sample: Grab
 Sample Number: DISP-307B

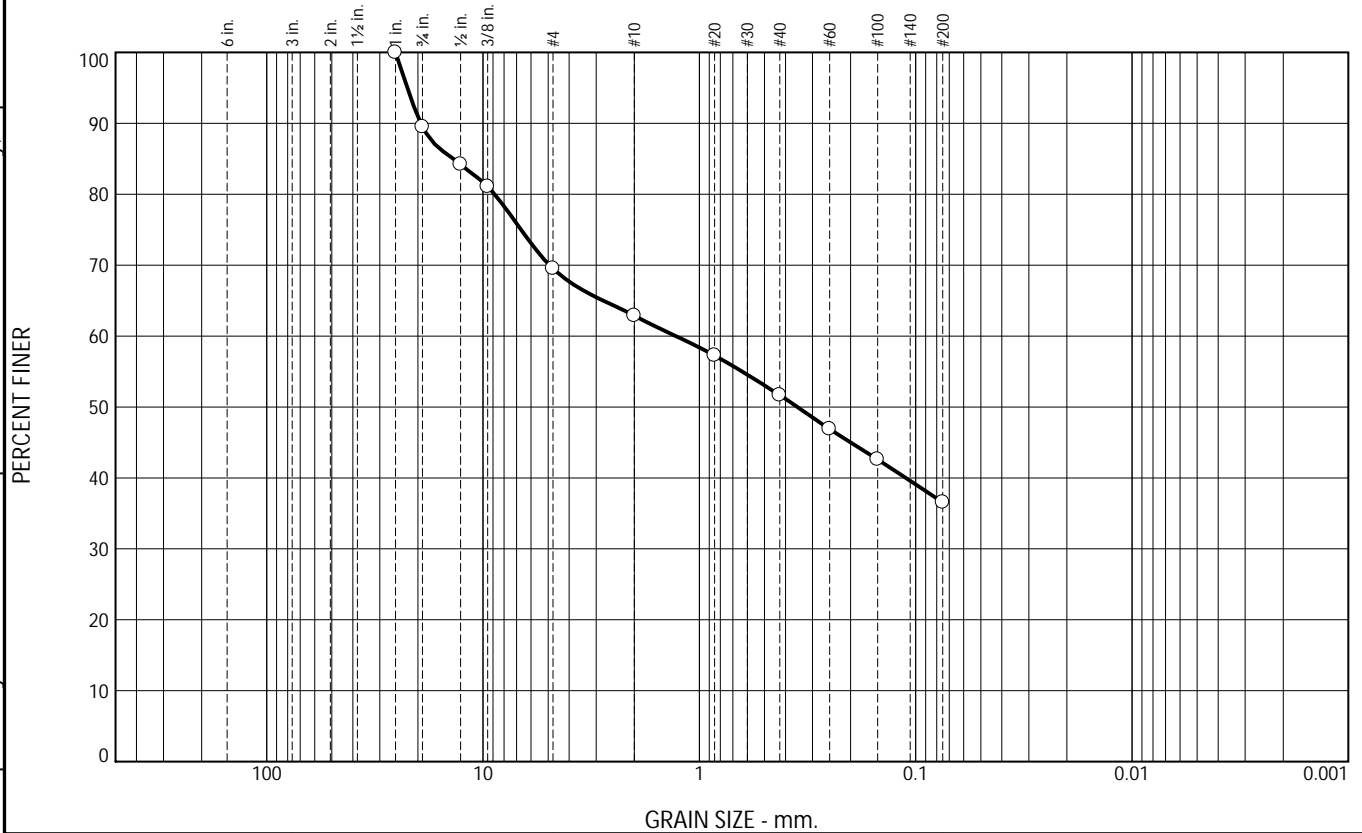
Date: 07.24.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 23G0543
Figure 23G0543-04	

Tested By: JB Checked By: Andrew Vanasse

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	10.5	20.0	6.6	11.2	15.1	36.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	89.5		
1/2"	84.2		
3/8"	81.1		
#4	69.5		
#10	62.9		
#20	57.3		
#40	51.7		
#60	46.9		
#100	42.6		
#200	36.6		

* (no specification provided)

Soil Description

Dark Brown silty clayey sand with gravel

PL= NP	<u>Atterberg Limits</u> LL= NV	PI= NP
--------	-----------------------------------	--------

<u>Coefficients</u>		
D ₉₀ = 19.4167	D ₈₅ = 13.6796	D ₆₀ = 1.2849
D ₅₀ = 0.3522	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =

USCS= SM	<u>Classification</u> AASHTO= A-4(0)
----------	---

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

Source of Sample: Grab
Sample Number: DISP-107C

Date: 07.24.23

Thielsch Engineering Inc.

Cranston, RI

Client: Downes Construction Co.
Project: Stockpile Characterization
Newport, RI

Project No: 23G0543

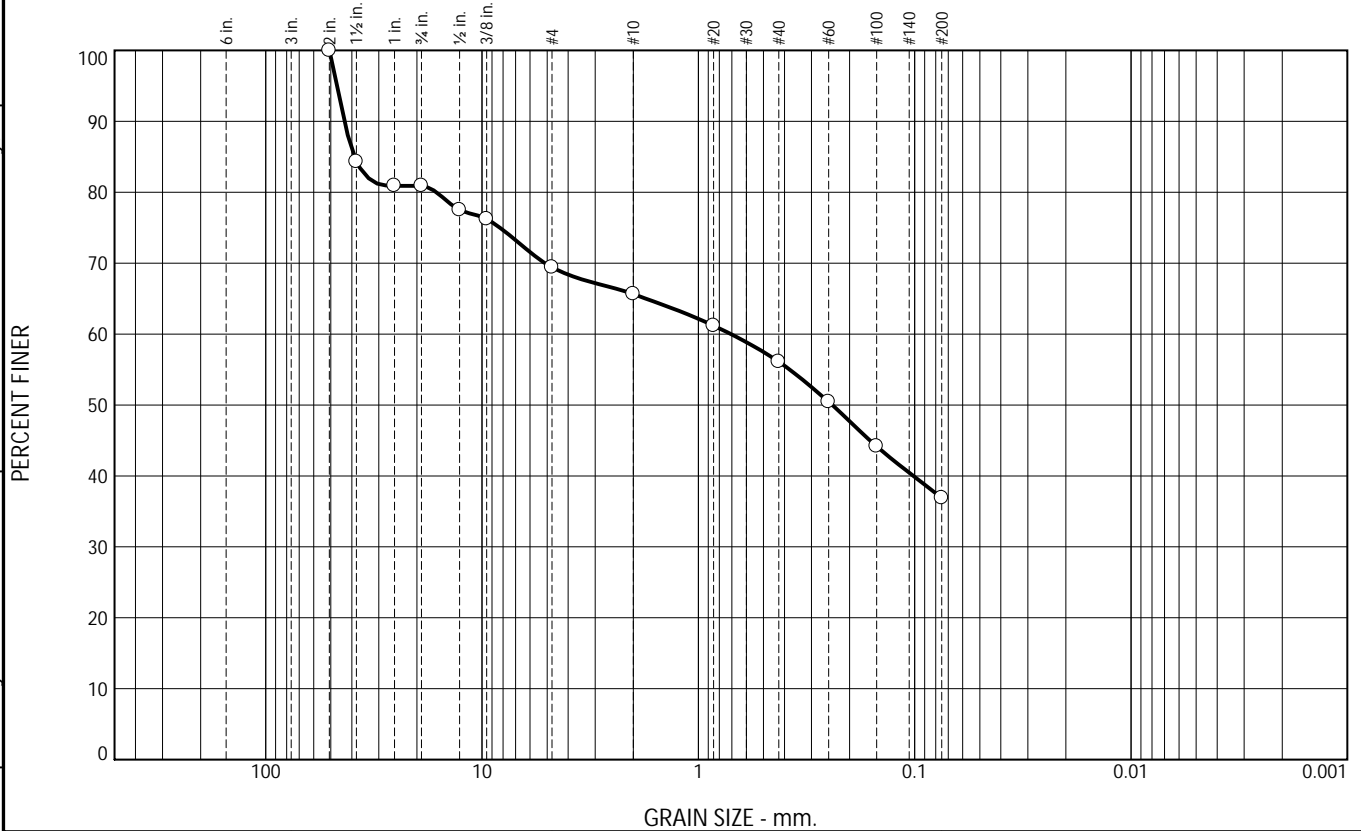
Figure 23G0543-05

Tested By: JB

Checked By: Andrew Vanasse

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	19.1	11.5	3.8	9.5	19.2	36.9	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0		
1 1/2"	84.3		
1"	80.9		
3/4"	80.9		
1/2"	77.5		
3/8"	76.2		
#4	69.4		
#10	65.6		
#20	61.2		
#40	56.1		
#60	50.4		
#100	44.2		
#200	36.9		

* (no specification provided)

Soil Description

Dark Brown silty clayey sand with gravel

PL= NP	<u>Atterberg Limits</u>	LL= NV	PI= NP
--------	-------------------------	--------	--------

<u>Coefficients</u>		
D ₉₀ = 43.2070	D ₈₅ = 38.9940	D ₆₀ = 0.7072
D ₅₀ = 0.2406	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =

USCS= SM	<u>Classification</u>
	AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

Source of Sample: Grab
Sample Number: DISP-107B

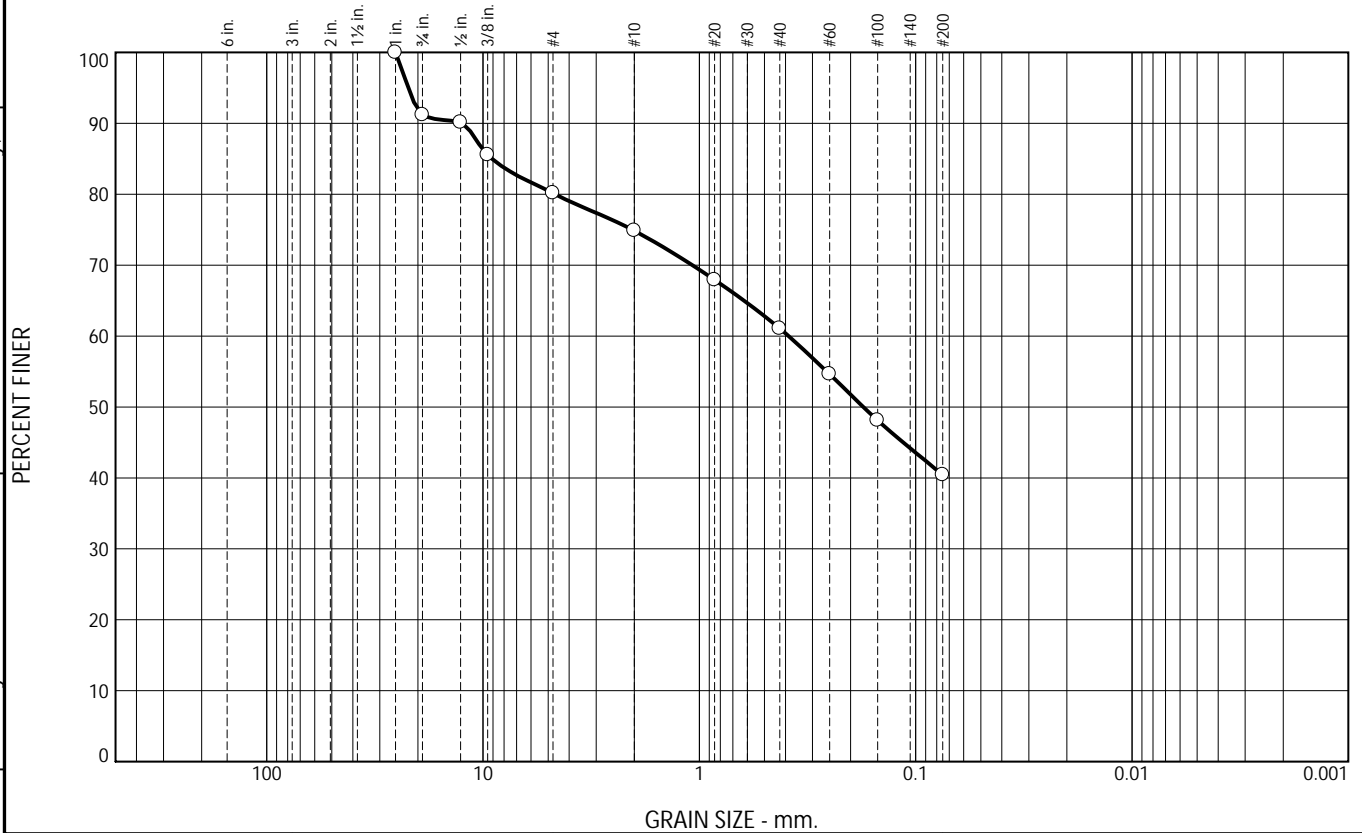
Date: 07.24.23

<p style="font-size: 1.2em; margin: 0;">Thielsch Engineering Inc.</p> <p style="margin: 0;">Cranston, RI</p>	<p>Client: Downes Construction Co.</p> <p>Project: Stockpile Characterization Newport, RI</p> <p>Project No: 23G0543</p>
<p>Figure 23G0543-06</p>	

Checked By: Andrew Vanasse

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.8	11.0	5.3	13.8	20.7	40.4	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	91.2		
1/2"	90.1		
3/8"	85.5		
#4	80.2		
#10	74.9		
#20	67.9		
#40	61.1		
#60	54.6		
#100	48.1		
#200	40.4		

* (no specification provided)

Soil Description

Dark Brown silty clayey sand with gravel

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 12.4066 D₈₅= 9.0880 D₆₀= 0.3869
 D₅₀= 0.1746 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

Source of Sample: Grab
 Sample Number: DISP-306A

Date: 07.21.23

Thielsch Engineering Inc.

Cranston, RI

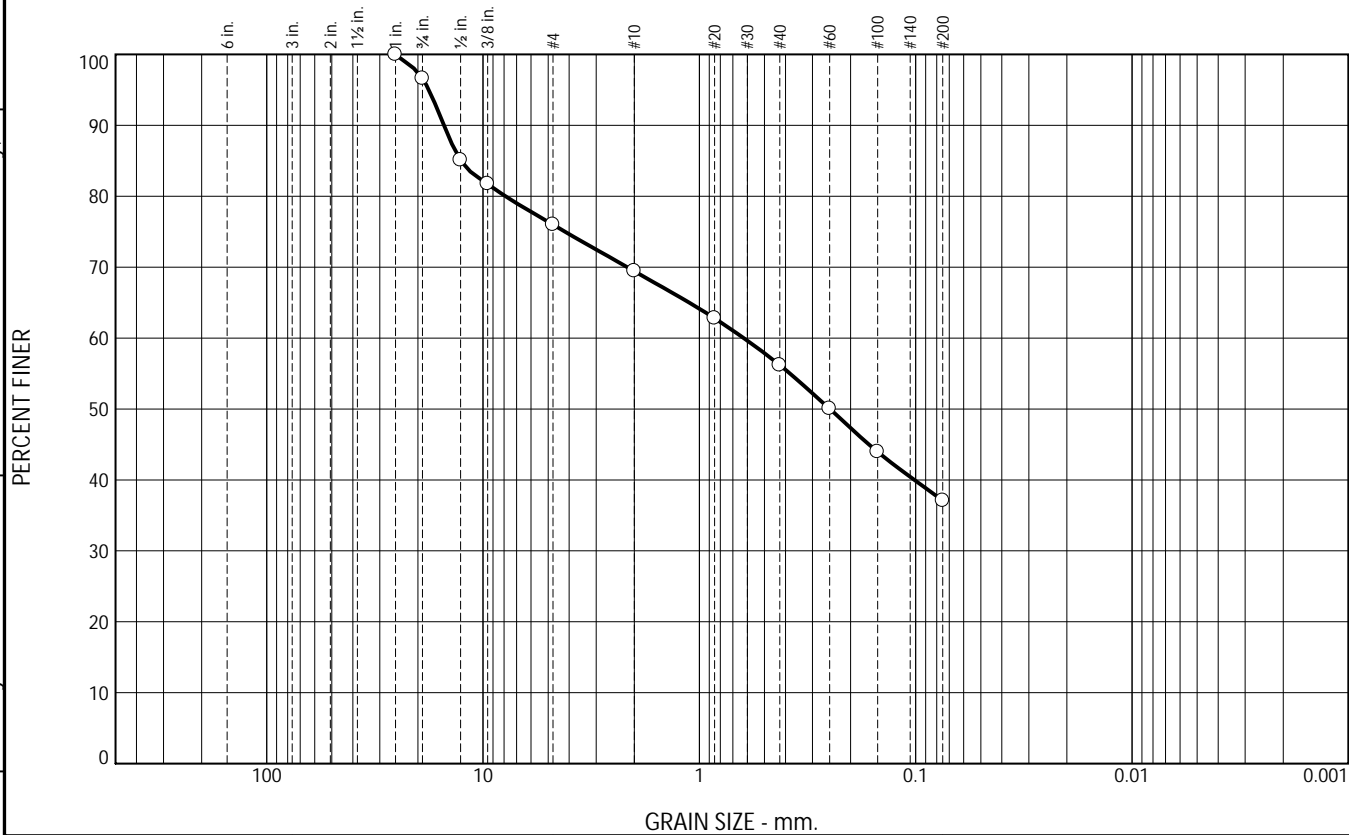
Client: Downes Construction Co.
 Project: Stockpile Characterization
 Newport, RI
 Project No: 23G0543

Figure 23G0543-07

Tested By: JB Checked By: Andrew Vanasse

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.4	20.6	6.6	13.2	19.1	37.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	96.6		
1/2"	85.1		
3/8"	81.8		
#4	76.0		
#10	69.4		
#20	62.8		
#40	56.2		
#60	50.0		
#100	44.0		
#200	37.1		

* (no specification provided)

Soil Description

Dark Brown silty clayey sand with gravel

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 15.1577 D₈₅= 12.6398 D₆₀= 0.6236
 D₅₀= 0.2493 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

Source of Sample: Grab
Sample Number: DISP-306B

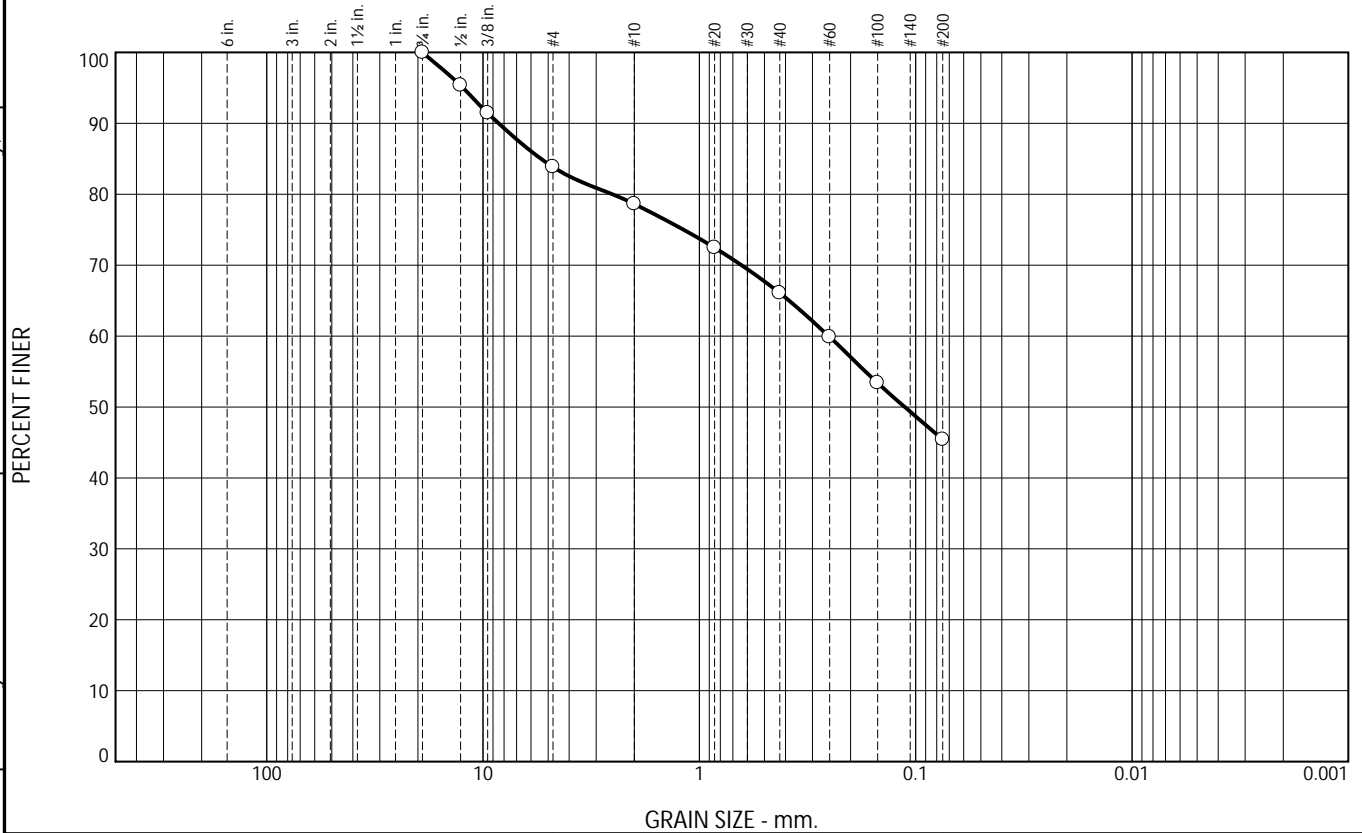
Date: 07.21.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 23G0543
Figure 23G0543-08	

Tested By: JB Checked By: Andrew Vanasse

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	16.2	5.2	12.5	20.7	45.4	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	95.4		
3/8"	91.4		
#4	83.8		
#10	78.6		
#20	72.4		
#40	66.1		
#60	59.9		
#100	53.4		
#200	45.4		

* (no specification provided)

Soil Description

Dark Brown silty clayey sand with gravel

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 8.4625 D₈₅= 5.3951 D₆₀= 0.2525
 D₅₀= 0.1124 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

Source of Sample: Grab
Sample Number: DISP-306C

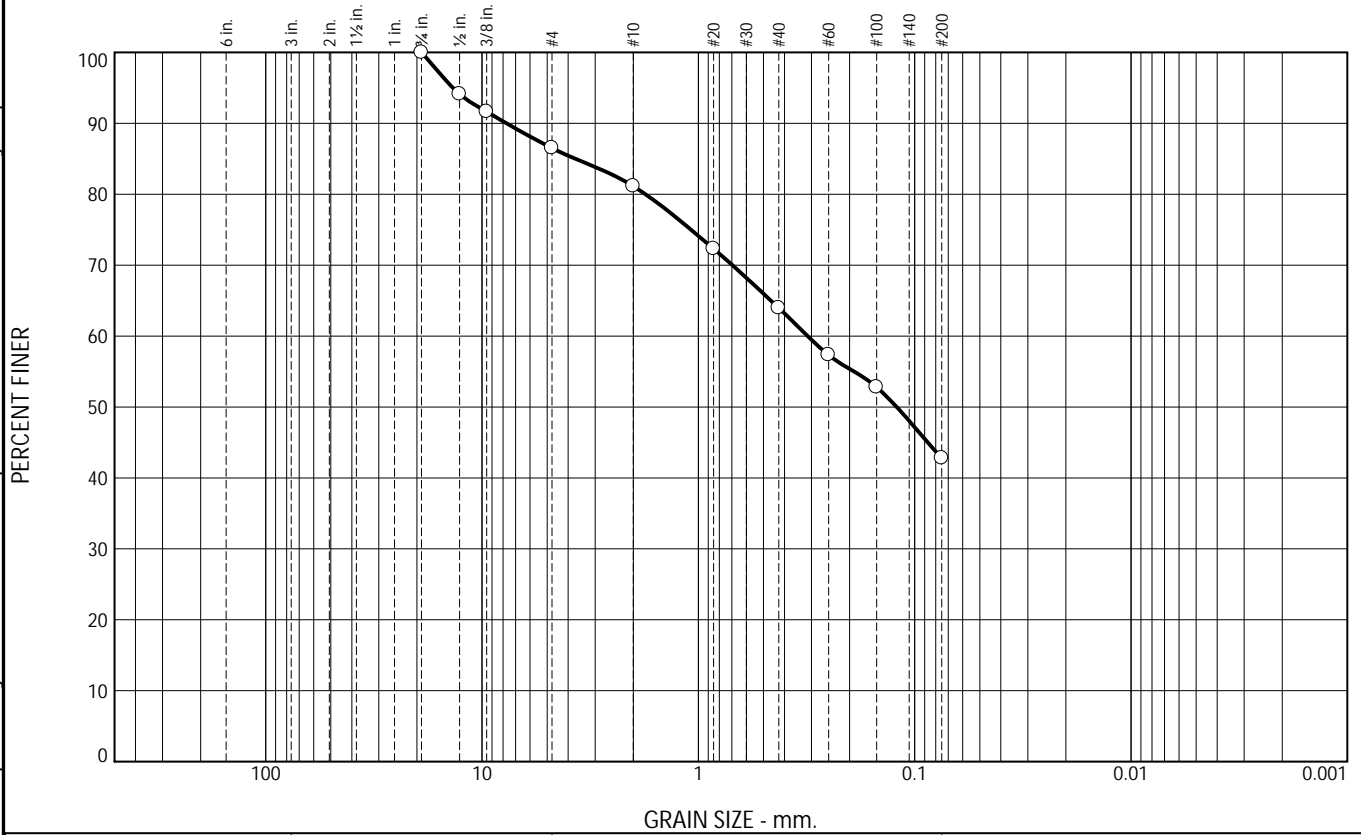
Date: 07.21.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 23G0543
Figure 23G0543-09	

Tested By: JB Checked By: Rebecca Roth

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	13.5	5.4	17.1	21.2	42.8	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	94.1		
3/8"	91.7		
#4	86.5		
#10	81.1		
#20	72.3		
#40	64.0		
#60	57.3		
#100	52.8		
#200	42.8		

Soil Description

Dark Brown silty clayey sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 7.7028 D₈₅= 3.7017 D₆₀= 0.3125
 D₅₀= 0.1211 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

* (no specification provided)

Source of Sample: Grab
 Sample Number: DISP-306D

Date: 07.21.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 23G0543
Figure 23G0543-10	

Tested By: JB Checked By: Rebecca Roth

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS
 Shipped/Delivered Via: Client

ESS Project ID: 23G0543
 Date Received: 7/18/2023
 Project Due Date: 7/25/2023
 Days for Project: 5 Day

- 1. Air bill manifest present? No
 Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
 Temp: 12 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about short holds & rushes? Yes / No / NA
- 10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: 1--10
 Analysis: Sieve
 TAT: 5 day

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By/Acid Lot#: _____
 b. Low Level VOA vials frozen: Date: 7/18/23 Time: 1758 By: M

Sample Receiving Notes:
Received an empty jar labeled for sample 2.

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Resolution: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	454457	Yes	N/A	Yes	VOA Vial	MeOH	
1	454465	Yes	N/A	Yes	VOA Vial	DI Water	
1	454466	Yes	N/A	Yes	VOA Vial	DI Water	
1	454481	Yes	N/A	Yes	Driller Jar	NP	
1	454489	Yes	N/A	Yes	8 oz jar	NP	
1	454490	Yes	N/A	Yes	8 oz jar	NP	
2	454458	Yes	N/A	Yes	VOA Vial	MeOH	
2	454467	Yes	N/A	Yes	VOA Vial	DI Water	
2	454468	Yes	N/A	Yes	VOA Vial	DI Water	
2	454482	Yes	N/A	Yes	Driller Jar	NP	
2	454491	Yes	N/A	Yes	8 oz jar	NP	
2	454492	Yes	N/A	Yes	8 oz jar	NP	
3	454459	Yes	N/A	Yes	VOA Vial	MeOH	
3	454469	Yes	N/A	Yes	VOA Vial	DI Water	
3	454470	Yes	N/A	Yes	VOA Vial	DI Water	
3	454483	Yes	N/A	Yes	Driller Jar	NP	
3	454493	Yes	N/A	Yes	8 oz jar	NP	

TD 7/18/23

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS

ESS Project ID: 23G0543

Date Received: 7/18/2023

3	454494	Yes	N/A	Yes	8 oz jar	NP
4	454460	Yes	N/A	Yes	VOA Vial	MeOH
4	454471	Yes	N/A	Yes	VOA Vial	DI Water
4	454472	Yes	N/A	Yes	VOA Vial	DI Water
4	454484	Yes	N/A	Yes	Driller Jar	NP
4	454495	Yes	N/A	Yes	8 oz jar	NP
4	454496	Yes	N/A	Yes	8 oz jar	NP
5	454505	Yes	N/A	Yes	Plastic Baggie	NP
6	454506	Yes	N/A	Yes	Plastic Baggie	NP
7	454461	Yes	N/A	Yes	VOA Vial	MeOH
7	454473	Yes	N/A	Yes	VOA Vial	DI Water
7	454474	Yes	N/A	Yes	VOA Vial	DI Water
7	454485	Yes	N/A	Yes	Driller Jar	NP
7	454497	Yes	N/A	Yes	8 oz jar	NP
7	454498	Yes	N/A	Yes	8 oz jar	NP
8	454462	Yes	N/A	Yes	VOA Vial	MeOH
8	454475	Yes	N/A	Yes	VOA Vial	DI Water
8	454476	Yes	N/A	Yes	VOA Vial	DI Water
8	454486	Yes	N/A	Yes	Driller Jar	NP
8	454499	Yes	N/A	Yes	8 oz jar	NP
8	454500	Yes	N/A	Yes	8 oz jar	NP
9	454463	Yes	N/A	Yes	VOA Vial	MeOH
9	454477	Yes	N/A	Yes	VOA Vial	DI Water
9	454478	Yes	N/A	Yes	VOA Vial	DI Water
9	454487	Yes	N/A	Yes	Driller Jar	NP
9	454501	Yes	N/A	Yes	8 oz jar	NP
9	454502	Yes	N/A	Yes	8 oz jar	NP
10	454464	Yes	N/A	Yes	VOA Vial	MeOH
10	454479	Yes	N/A	Yes	VOA Vial	DI Water
10	454480	Yes	N/A	Yes	VOA Vial	DI Water
10	454488	Yes	N/A	Yes	Driller Jar	NP
10	454503	Yes	N/A	Yes	8 oz jar	NP
10	454504	Yes	N/A	Yes	8 oz jar	NP

2nd Review

Were all containers scanned into storage/lab?

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Are all Hex Chrome stickers attached?

Are all QC stickers attached?

Are VOA stickers attached if bubbles noted?

Initials TD

Yes / No
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA
 Yes / No / NA

Completed

By: [Signature]

Date & Time: 1733 7/18/23.

Reviewed

By: [Signature]

Date & Time: 7/18/23 1759



185 Frances Avenue
 Cranston, RI 02910
 Phone: 401-461-7181
 Fax: 401-461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 2360543 Page 1 of 1

ELECTRONIC DELIVERABLES (Final Reports are PDF)

Limit Checker State Forms EQuIS
 Excel State Upload Enviro Data
 CLP-Like Package Other (Specify) →

Turn Time (Days) > 5 5 4 3 2 1 Same Day

Regulatory State: Rhode Island Criteria: R-DEC, GA-LC

Is this project for any of the following?:
 CT RCP MA MCP RGP Permit 401 WQ

CLIENT INFORMATION

Client: Joe Desanti, Downes Construction Co.
 Address: 10 Dorrance Street
 Providence, RI
 Phone: (860) 229-3755
 Email Distribution List:
 abarton@parecorp.com
 tthies@parecorp.com
 mflynn@parecorp.com

PROJECT INFORMATION

Project Name: Stockpile Characterization
 Project Location: Rogers High, Newport, RI
 Project Number: 21106.00
 Project Manager: Tim Thies, Pare Corporation
 Bill to: jdesanti@downesco.com
 PO#: 21106.00
 Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOCs (8260)	SVOCs (8270)	TPH (8100M)	RCRA 8 Metals (6010/7141)	Organochlorine Pesticides (8081)	PCBs (8082)	pH	Flashpoint	Conductivity	Sieve	Total Number of Bottles
1	07/18/23	1245	Grab	Soil	DISP-307C											6
2		1250			DISP-307D											
3		1310			DISP-307A											
4		1320			DISP-307B											
5		1330			DISP-107C										X	
6		1340			DISP-107B										X	
7		1405			DISP-306A											
8		1420			DISP-306B											
9		1445			DISP-306C											
10		1500			DISP-306D											

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by : Andrew Hook (sign) Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only

Cooler Temperature (°C): 12.0
ice

Comments: * Please specify "Other" preservative and containers types in this space
 Glassware: 2 x 8oz non-pres ambers, 2 x 40mL Stir Bar VOAs, 1 x 40mL MeOH VOA, 1 8-oz bag

All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Dissolved Filtration
 Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<i>[Signature]</i>	07/18/23	1710	<i>[Signature]</i>				



CERTIFICATE OF ANALYSIS

Tim Thies
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

RE: Stockpile Characterization (21106.00)
ESS Laboratory Work Order Number: 23G0579

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:17 pm, Aug 03, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI

Sieve Analysis



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

SAMPLE RECEIPT

The following samples were received on July 19, 2023 for the analyses specified on the enclosed Chain of Custody Record.

Low Level VOA vials were frozen by ESS Laboratory on July 19, 2023 at 14:03.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
23G0579-01	DISP-106A	Soil	SUB
23G0579-02	DISP-105A	Soil	SUB
23G0579-03	DISP-106D	Soil	SUB
23G0579-04	DISP-104D	Soil	SUB
23G0579-05	DISP-305A	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0579-06	DISP-305B	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0579-07	TP23-5A	Soil	6010C



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

D3G0367-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

2,2-Dichloropropane (31% @ 30%)

DG32107-BSD1 [Blank Spike recovery is above upper control limit \(B+\).](#)

Tertiary-amyl methyl ether (131% @ 70-130%)

8270D Semi-Volatile Organic Compounds

D3G0323-CCV1 [Calibration required quadratic regression \(Q\).](#)

2,4-Dinitrophenol (129% @ 80-120%), 4,6-Dinitro-2-Methylphenol (126% @ 80-120%), Benzoic Acid (95% @ 80-120%)

D3G0323-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

2,3,4,6-Tetrachlorophenol (25% @ 20%), 2,4-Dinitrophenol (29% @ 20%), 2-Nitroaniline (21% @ 20%), 4,6-Dinitro-2-Methylphenol (26% @ 20%), Di-n-octylphthalate (24% @ 20%), Fluoranthene (23% @ 20%)

D3G0323-TUN1 [Benzidine tailing factor >2.](#)

D3G0417-CCV1 [Calibration required quadratic regression \(Q\).](#)

2,4-Dinitrophenol (112% @ 80-120%), 4,6-Dinitro-2-Methylphenol (127% @ 80-120%), Benzoic Acid (107% @ 80-120%), Di-n-octylphthalate (109% @ 80-120%)

D3G0417-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

4,6-Dinitro-2-Methylphenol (27% @ 20%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-106A
Date Sampled: 07/19/23 08:05

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-01
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-105A
Date Sampled: 07/19/23 08:10

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-02
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-106D
Date Sampled: 07/19/23 08:20

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-03
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-104D
Date Sampled: 07/19/23 08:30

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-04
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.23 (2.32)		6010C		1	CEV	07/27/23 11:24	2.42	100	DG32522
Barium	39.8 (2.32)		6010C		1	CEV	07/27/23 11:24	2.42	100	DG32522
Cadmium	ND (0.46)		6010C		1	CEV	07/27/23 11:24	2.42	100	DG32522
Chromium	15.0 (1.86)		6010C		2	CEV	07/31/23 16:10	2.42	100	DG32522
Lead	29.7 (9.30)		6010C		2	CEV	07/31/23 16:10	2.42	100	DG32522
Mercury	ND (0.035)		7471B		1	BJV	07/26/23 16:09	0.64	40	DG32629
Selenium	ND (0.46)		6020A		1	NAR	07/28/23 17:44	2.42	100	DG32522
Silver	ND (0.93)		6010C		2	CEV	07/31/23 16:10	2.42	100	DG32522



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,1,1-Trichloroethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,1,2,2-Tetrachloroethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,1,2-Trichloroethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,1-Dichloroethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,1-Dichloroethene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,1-Dichloropropene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2,3-Trichlorobenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2,3-Trichloropropane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2,4-Trichlorobenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2,4-Trimethylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2-Dibromo-3-Chloropropane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2-Dibromoethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2-Dichloroethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,2-Dichloropropane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,3,5-Trimethylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,3-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,3-Dichloropropane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,4-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1,4-Dioxane	ND (0.0970)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
1-Chlorohexane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
2,2-Dichloropropane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
2-Butanone	ND (0.0485)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
2-Chlorotoluene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
2-Hexanone	ND (0.0485)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
4-Chlorotoluene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
4-Isopropyltoluene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
4-Methyl-2-Pentanone	ND (0.0485)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Acetone	ND (0.0485)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Benzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Bromobenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Bromodichloromethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Bromoform	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Bromomethane	ND (0.0097)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Carbon Disulfide	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Carbon Tetrachloride	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Chlorobenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Chloroethane	ND (0.0097)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Chloroform	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Chloromethane	ND (0.0097)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
cis-1,2-Dichloroethene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
cis-1,3-Dichloropropene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Dibromochloromethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Dibromomethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Dichlorodifluoromethane	ND (0.0097)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Diethyl Ether	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Di-isopropyl ether	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Ethyl tertiary-butyl ether	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Ethylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Hexachlorobutadiene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Isopropylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Methyl tert-Butyl Ether	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Methylene Chloride	ND (0.0242)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Naphthalene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
n-Butylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
n-Propylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
sec-Butylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Styrene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
tert-Butylbenzene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Tertiary-amyl methyl ether	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Tetrachloroethene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Tetrahydrofuran	ND (0.0194)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-305A
 Date Sampled: 07/19/23 08:45
 Percent Solids: 89
 Initial Volume: 5.8g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0579
 ESS Laboratory Sample ID: 23G0579-05
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
trans-1,2-Dichloroethene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
trans-1,3-Dichloropropene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Trichloroethene	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Trichlorofluoromethane	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Vinyl Acetate	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Vinyl Chloride	ND (0.0097)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Xylene O	ND (0.0048)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Xylene P,M	ND (0.0097)		8260B Low		1	07/20/23 12:53	D3G0367	DG32107
Xylenes (Total)	ND (0.00970)		8260B Low		1	07/20/23 12:53		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	95 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	95 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	93 %		70-130
<i>Surrogate: Toluene-d8</i>	95 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89
Initial Volume: 20.4g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/21/23 9:15

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
4,4'-DDE	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
4,4'-DDT	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Aldrin	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
alpha-BHC	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
alpha-Chlordane	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
beta-BHC	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Chlordane (Total)	ND (0.0331)		8081B		1	07/27/23 11:11	D3G0466	DG32106
delta-BHC	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Dieldrin	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Endosulfan I	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Endosulfan II	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Endrin	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Endrin Aldehyde	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Endrin Ketone	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/27/23 11:11	D3G0466	DG32106
gamma-Chlordane	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Heptachlor	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Hexachlorobenzene	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Methoxychlor	ND (0.0028)		8081B		1	07/27/23 11:11	D3G0466	DG32106
Toxaphene	ND (0.138)		8081B		1	07/27/23 11:11	D3G0466	DG32106

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	79 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	75 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89
Initial Volume: 20.3g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 17:01		DG32103
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 17:01		DG32103

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	74 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	80 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 19:04

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.5)		8100M		1	07/24/23 15:30		DG31957
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		80 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/25/23 5:00	D3G0417	DG31953
1,2,4-Trichlorobenzene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
1,2-Dichlorobenzene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
1,3-Dichlorobenzene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
1,4-Dichlorobenzene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,3,4,6-Tetrachlorophenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,4,5-Trichlorophenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,4,6-Trichlorophenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,4-Dichlorophenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,4-Dimethylphenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,4-Dinitrophenol	ND (1.15)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,4-Dinitrotoluene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2,6-Dinitrotoluene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2-Chloronaphthalene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2-Chlorophenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2-Methylnaphthalene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2-Methylphenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2-Nitroaniline	ND (0.574)		8270D		1	07/25/23 5:00	D3G0417	DG31953
2-Nitrophenol	ND (0.574)		8270D		1	07/25/23 5:00	D3G0417	DG31953
3,3'-Dichlorobenzidine	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
3+4-Methylphenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
3-Nitroaniline	ND (0.574)		8270D		1	07/25/23 5:00	D3G0417	DG31953
4,6-Dinitro-2-Methylphenol	ND (1.15)		8270D		1	07/25/23 5:00	D3G0417	DG31953
4-Bromophenyl-phenylether	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
4-Chloro-3-Methylphenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
4-Chloroaniline	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
4-Chloro-phenyl-phenyl ether	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
4-Nitroaniline	ND (0.574)		8270D		1	07/25/23 5:00	D3G0417	DG31953
4-Nitrophenol	ND (1.15)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Acenaphthene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Acenaphthylene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Acetophenone	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Anthracene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Azobenzene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Benzo(a)anthracene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Benzo(a)pyrene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Benzo(b)fluoranthene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Benzo(g,h,i)perylene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Benzo(k)fluoranthene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Benzoic Acid	ND (2.87)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Benzyl Alcohol	ND (0.574)		8270D		1	07/25/23 5:00	D3G0417	DG31953
bis(2-Chloroethoxy)methane	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
bis(2-Chloroethyl)ether	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
bis(2-chloroisopropyl)Ether	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
bis(2-Ethylhexyl)phthalate	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Butylbenzylphthalate	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Carbazole	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Chrysene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Dibenzo(a,h)Anthracene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Dibenzofuran	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Diethylphthalate	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Dimethylphthalate	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Di-n-butylphthalate	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Di-n-octylphthalate	ND (0.574)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Fluoranthene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Fluorene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Hexachlorobenzene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Hexachlorobutadiene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Hexachlorocyclopentadiene	ND (0.574)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Hexachloroethane	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Indeno(1,2,3-cd)Pyrene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Isophorone	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Naphthalene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-305A
 Date Sampled: 07/19/23 08:45
 Percent Solids: 89
 Initial Volume: 19.6g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
 ESS Laboratory Sample ID: 23G0579-05
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: TJ
 Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
N-Nitrosodimethylamine	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
N-Nitroso-Di-n-Propylamine	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
N-nitrosodiphenylamine	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Pentachlorophenol	ND (1.15)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Phenanthrene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Phenol	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Pyrene	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953
Pyridine	ND (0.287)		8270D		1	07/25/23 5:00	D3G0417	DG31953

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	82 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	90 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	77 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	83 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	75 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	76 %		30-130
<i>Surrogate: Phenol-d6</i>	75 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	104 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45
Percent Solids: 89

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 146 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	6.78 (N/A)		9045		1	CCP	07/19/23 19:38	S.U.	DG31943
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.4 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32033



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305A
Date Sampled: 07/19/23 08:45

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-05
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.45 (2.54)		6010C		1	CEV	07/27/23 11:27	2.22	100	DG32522
Barium	54.0 (2.54)		6010C		1	CEV	07/27/23 11:27	2.22	100	DG32522
Cadmium	ND (0.51)		6010C		1	CEV	07/27/23 11:27	2.22	100	DG32522
Chromium	13.0 (1.01)		6010C		1	CEV	07/27/23 11:27	2.22	100	DG32522
Lead	134 (5.07)		6010C		1	CEV	07/27/23 11:27	2.22	100	DG32522
Mercury	0.038 (0.032)		7471B		1	BJV	07/25/23 15:39	0.69	40	DG32513
Selenium	ND (5.07)		6010C		1	CEV	07/27/23 11:27	2.22	100	DG32522
Silver	ND (0.51)		6010C		1	CEV	07/27/23 11:27	2.22	100	DG32522



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 6.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,1,1-Trichloroethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,1,2,2-Tetrachloroethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,1,2-Trichloroethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,1-Dichloroethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,1-Dichloroethene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,1-Dichloropropene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2,3-Trichlorobenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2,3-Trichloropropane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2,4-Trichlorobenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2,4-Trimethylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2-Dibromo-3-Chloropropane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2-Dibromoethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2-Dichlorobenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2-Dichloroethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,2-Dichloropropane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,3,5-Trimethylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,3-Dichlorobenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,3-Dichloropropane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,4-Dichlorobenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1,4-Dioxane	ND (0.0909)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
1-Chlorohexane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
2,2-Dichloropropane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
2-Butanone	ND (0.0454)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
2-Chlorotoluene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
2-Hexanone	ND (0.0454)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
4-Chlorotoluene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
4-Isopropyltoluene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
4-Methyl-2-Pentanone	ND (0.0454)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Acetone	ND (0.0454)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Benzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Bromobenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 6.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Bromodichloromethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Bromoform	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Bromomethane	ND (0.0091)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Carbon Disulfide	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Carbon Tetrachloride	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Chlorobenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Chloroethane	ND (0.0091)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Chloroform	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Chloromethane	ND (0.0091)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
cis-1,2-Dichloroethene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
cis-1,3-Dichloropropene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Dibromochloromethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Dibromomethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Dichlorodifluoromethane	ND (0.0091)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Diethyl Ether	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Di-isopropyl ether	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Ethyl tertiary-butyl ether	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Ethylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Hexachlorobutadiene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Isopropylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Methyl tert-Butyl Ether	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Methylene Chloride	ND (0.0227)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Naphthalene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
n-Butylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
n-Propylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
sec-Butylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Styrene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
tert-Butylbenzene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Tertiary-amyl methyl ether	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Tetrachloroethene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Tetrahydrofuran	ND (0.0182)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 6.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
trans-1,2-Dichloroethene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
trans-1,3-Dichloropropene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Trichloroethene	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Trichlorofluoromethane	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Vinyl Acetate	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Vinyl Chloride	ND (0.0091)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Xylene O	ND (0.0045)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Xylene P,M	ND (0.0091)		8260B Low		1	07/20/23 13:18	D3G0367	DG32107
Xylenes (Total)	ND (0.00909)		8260B Low		1	07/20/23 13:18		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>92 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>94 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 19.2g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/21/23 9:15

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
4,4'-DDE	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
4,4'-DDT	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Aldrin	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
alpha-BHC	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
alpha-Chlordane	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
beta-BHC	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Chlordane (Total)	ND (0.0352)		8081B		1	07/27/23 11:41	D3G0466	DG32106
delta-BHC	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Dieldrin	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Endosulfan I	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Endosulfan II	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Endosulfan Sulfate	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Endrin	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Endrin Aldehyde	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Endrin Ketone	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
gamma-BHC (Lindane)	ND (0.0018)		8081B		1	07/27/23 11:41	D3G0466	DG32106
gamma-Chlordane	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Heptachlor	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Heptachlor Epoxide	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Hexachlorobenzene	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Methoxychlor	ND (0.0029)		8081B		1	07/27/23 11:41	D3G0466	DG32106
Toxaphene	ND (0.147)		8081B		1	07/27/23 11:41	D3G0466	DG32106

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	77 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	76 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	72 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	72 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 20g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/21/23 13:30

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 17:21		DG32103
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 17:21		DG32103

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	75 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	78 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	98 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/19/23 19:04

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.6)		8100M		1	07/24/23 16:11		DG31957
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		76 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/25/23 5:31	D3G0417	DG31953
1,2,4-Trichlorobenzene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
1,2-Dichlorobenzene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
1,3-Dichlorobenzene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
1,4-Dichlorobenzene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,3,4,6-Tetrachlorophenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,4,5-Trichlorophenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,4,6-Trichlorophenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,4-Dichlorophenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,4-Dimethylphenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,4-Dinitrophenol	ND (1.17)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,4-Dinitrotoluene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2,6-Dinitrotoluene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2-Chloronaphthalene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2-Chlorophenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2-Methylnaphthalene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2-Methylphenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2-Nitroaniline	ND (0.587)		8270D		1	07/25/23 5:31	D3G0417	DG31953
2-Nitrophenol	ND (0.587)		8270D		1	07/25/23 5:31	D3G0417	DG31953
3,3'-Dichlorobenzidine	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
3+4-Methylphenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
3-Nitroaniline	ND (0.587)		8270D		1	07/25/23 5:31	D3G0417	DG31953
4,6-Dinitro-2-Methylphenol	ND (1.17)		8270D		1	07/25/23 5:31	D3G0417	DG31953
4-Bromophenyl-phenylether	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
4-Chloro-3-Methylphenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
4-Chloroaniline	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
4-Chloro-phenyl-phenyl ether	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
4-Nitroaniline	ND (0.587)		8270D		1	07/25/23 5:31	D3G0417	DG31953
4-Nitrophenol	ND (1.17)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Acenaphthene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Acenaphthylene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Acetophenone	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Anthracene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Azobenzene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Benzo(a)anthracene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Benzo(a)pyrene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Benzo(b)fluoranthene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Benzo(g,h,i)perylene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Benzo(k)fluoranthene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Benzoic Acid	ND (2.93)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Benzyl Alcohol	ND (0.587)		8270D		1	07/25/23 5:31	D3G0417	DG31953
bis(2-Chloroethoxy)methane	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
bis(2-Chloroethyl)ether	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
bis(2-chloroisopropyl)Ether	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
bis(2-Ethylhexyl)phthalate	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Butylbenzylphthalate	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Carbazole	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Chrysene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Dibenzo(a,h)Anthracene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Dibenzofuran	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Diethylphthalate	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Dimethylphthalate	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Di-n-butylphthalate	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Di-n-octylphthalate	ND (0.587)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Fluoranthene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Fluorene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Hexachlorobenzene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Hexachlorobutadiene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Hexachlorocyclopentadiene	ND (0.587)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Hexachloroethane	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Indeno(1,2,3-cd)Pyrene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Isophorone	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Naphthalene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/19/23 18:31

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
N-Nitrosodimethylamine	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
N-Nitroso-Di-n-Propylamine	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
N-nitrosodiphenylamine	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Pentachlorophenol	ND (1.17)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Phenanthrene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Phenol	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Pyrene	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953
Pyridine	ND (0.293)		8270D		1	07/25/23 5:31	D3G0417	DG31953

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	69 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	77 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	68 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	74 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	68 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	68 %		30-130
<i>Surrogate: Phenol-d6</i>	68 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	90 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05
Percent Solids: 89

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 219 (5)		9050A		1	EJR	07/20/23 14:56	umhos/cm	DG32024
Corrosivity (pH)	7.04 (N/A)		9045		1	CCP	07/19/23 19:38	S.U.	DG31943
Corrosivity (pH) Sample Temp	Soil pH measured in water at 20.9 °C.								
Flashpoint	> 200 (N/A)		1010A		1	CCP	07/20/23 14:00	°F	DG32033



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305B
Date Sampled: 07/19/23 09:05

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-06
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: TP23-5A
Date Sampled: 07/19/23 10:40
Percent Solids: 81

ESS Laboratory Work Order: 23G0579
ESS Laboratory Sample ID: 23G0579-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Lead	37.4 (26.7)		6010C		5	CEV	07/28/23 13:54	2.32	100	DG32522



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Total Metals										
Batch DG32513 - 7471B										
Blank										
Mercury	ND	0.029	mg/kg wet							
LCS										
Mercury	18.1	2.87	mg/kg wet	18.20		99	80-120			
LCS Dup										
Mercury	18.8	2.96	mg/kg wet	18.20		103	80-120	4	30	
Batch DG32522 - 3050B										
Blank										
Arsenic	ND	1.96	mg/kg wet							
Barium	ND	1.96	mg/kg wet							
Cadmium	ND	0.39	mg/kg wet							
Chromium	ND	0.78	mg/kg wet							
Lead	ND	3.92	mg/kg wet							
Selenium	ND	3.92	mg/kg wet							
Silver	ND	0.39	mg/kg wet							
Blank										
Selenium	ND	0.39	mg/kg wet							
LCS										
Arsenic	63.6	7.25	mg/kg wet	65.20		98	80-120			
Barium	629	7.25	mg/kg wet	626.0		100	80-120			
Cadmium	110	1.45	mg/kg wet	118.0		93	80-120			
Chromium	148	2.90	mg/kg wet	159.0		93	80-120			
Lead	223	14.5	mg/kg wet	230.0		97	80-120			
Selenium	49.9	14.5	mg/kg wet	55.70		90	80-120			
Silver	36.7	1.45	mg/kg wet	46.20		80	80-120			
LCS										
Selenium	62.1	7.25	mg/kg wet	55.70		112	80-120			
LCS Dup										
Arsenic	63.6	7.94	mg/kg wet	65.20		98	80-120	0.05	30	
Barium	678	7.94	mg/kg wet	626.0		108	80-120	8	30	
Cadmium	107	1.59	mg/kg wet	118.0		91	80-120	2	30	
Chromium	145	3.17	mg/kg wet	159.0		91	80-120	2	30	
Lead	218	15.9	mg/kg wet	230.0		95	80-120	2	20	
Selenium	48.7	15.9	mg/kg wet	55.70		87	80-120	2	30	
Silver	44.5	1.59	mg/kg wet	46.20		96	80-120	19	30	
LCS Dup										
Selenium	64.9	8.33	mg/kg wet	55.70		116	80-120	4	30	
Batch DG32629 - 7471B										
Blank										
Mercury	ND	0.030	mg/kg wet							
LCS										
Mercury	18.9	3.05	mg/kg wet	18.20		104	80-120			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DG32629 - 7471B

LCS Dup

Mercury	19.8	2.96	mg/kg wet	18.20		109	80-120	5	30	
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32107 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethene	ND	0.0050	mg/kg wet
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet
1,2-Dibromoethane	ND	0.0050	mg/kg wet
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet
1,2-Dichloroethane	ND	0.0050	mg/kg wet
1,2-Dichloropropane	ND	0.0050	mg/kg wet
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet
1,3-Dichloropropane	ND	0.0050	mg/kg wet
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet
1,4-Dioxane	ND	0.100	mg/kg wet
1-Chlorohexane	ND	0.0050	mg/kg wet
2,2-Dichloropropane	ND	0.0050	mg/kg wet
2-Butanone	ND	0.0500	mg/kg wet
2-Chlorotoluene	ND	0.0050	mg/kg wet
2-Hexanone	ND	0.0500	mg/kg wet
4-Chlorotoluene	ND	0.0050	mg/kg wet
4-Isopropyltoluene	ND	0.0050	mg/kg wet
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet
Acetone	ND	0.0500	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32107 - 5035

Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0452</i>		mg/kg wet	<i>0.05000</i>		<i>90</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0476</i>		mg/kg wet	<i>0.05000</i>		<i>95</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0448</i>		mg/kg wet	<i>0.05000</i>		<i>90</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0472</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>	<i>70-130</i>			

LCS

1,1,1,2-Tetrachloroethane	0.0601	0.0050	mg/kg wet	0.05000		120	70-130			
1,1,1-Trichloroethane	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
1,1,2,2-Tetrachloroethane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
1,1,2-Trichloroethane	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
1,1-Dichloroethane	0.0449	0.0050	mg/kg wet	0.05000		90	70-130			
1,1-Dichloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32107 - 5035

1,1-Dichloropropene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,3-Trichlorobenzene	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
1,2,3-Trichloropropane	0.0532	0.0050	mg/kg wet	0.05000		106	70-130			
1,2,4-Trichlorobenzene	0.0554	0.0050	mg/kg wet	0.05000		111	70-130			
1,2,4-Trimethylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dibromo-3-Chloropropane	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
1,2-Dibromoethane	0.0536	0.0050	mg/kg wet	0.05000		107	70-130			
1,2-Dichlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,2-Dichloroethane	0.0432	0.0050	mg/kg wet	0.05000		86	70-130			
1,2-Dichloropropane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
1,3,5-Trimethylbenzene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			
1,3-Dichlorobenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
1,3-Dichloropropane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
1,4-Dichlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
1,4-Dioxane	1.11	0.100	mg/kg wet	1.000		111	70-130			
1-Chlorohexane	0.0531	0.0050	mg/kg wet	0.05000		106	70-130			
2,2-Dichloropropane	0.0632	0.0050	mg/kg wet	0.05000		126	70-130			
2-Butanone	0.239	0.0500	mg/kg wet	0.2500		95	70-130			
2-Chlorotoluene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
2-Hexanone	0.244	0.0500	mg/kg wet	0.2500		97	70-130			
4-Chlorotoluene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
4-Isopropyltoluene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
4-Methyl-2-Pentanone	0.236	0.0500	mg/kg wet	0.2500		94	70-130			
Acetone	0.255	0.0500	mg/kg wet	0.2500		102	70-130			
Benzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			
Bromobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Bromochloromethane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
Bromodichloromethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
Bromoform	0.0608	0.0050	mg/kg wet	0.05000		122	70-130			
Bromomethane	0.0415	0.0100	mg/kg wet	0.05000		83	70-130			
Carbon Disulfide	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Carbon Tetrachloride	0.0568	0.0050	mg/kg wet	0.05000		114	70-130			
Chlorobenzene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
Chloroethane	0.0466	0.0100	mg/kg wet	0.05000		93	70-130			
Chloroform	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
Chloromethane	0.0402	0.0100	mg/kg wet	0.05000		80	70-130			
cis-1,2-Dichloroethene	0.0483	0.0050	mg/kg wet	0.05000		97	70-130			
cis-1,3-Dichloropropene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Dibromochloromethane	0.0611	0.0050	mg/kg wet	0.05000		122	70-130			
Dibromomethane	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Dichlorodifluoromethane	0.0354	0.0100	mg/kg wet	0.05000		71	70-130			
Diethyl Ether	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
Di-isopropyl ether	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Ethyl tertiary-butyl ether	0.0601	0.0050	mg/kg wet	0.05000		120	70-130			
Ethylbenzene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32107 - 5035

Hexachlorobutadiene	0.0532	0.0050	mg/kg wet	0.05000		106	70-130			
Isopropylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Methyl tert-Butyl Ether	0.0571	0.0050	mg/kg wet	0.05000		114	70-130			
Methylene Chloride	0.0430	0.0250	mg/kg wet	0.05000		86	70-130			
Naphthalene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
n-Butylbenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
n-Propylbenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130			
sec-Butylbenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
Styrene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
tert-Butylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Tertiary-amyl methyl ether	0.0652	0.0050	mg/kg wet	0.05000		130	70-130			
Tetrachloroethene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
Tetrahydrofuran	0.0454	0.0200	mg/kg wet	0.05000		91	70-130			
Toluene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
trans-1,2-Dichloroethene	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
trans-1,3-Dichloropropene	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
Trichloroethene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
Trichlorofluoromethane	0.0432	0.0050	mg/kg wet	0.05000		86	70-130			
Vinyl Acetate	0.0608	0.0050	mg/kg wet	0.05000		122	70-130			
Vinyl Chloride	0.0440	0.0100	mg/kg wet	0.05000		88	70-130			
Xylene O	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
Xylene P,M	0.108	0.0100	mg/kg wet	0.1000		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0420		mg/kg wet	0.05000		84	70-130			
Surrogate: 4-Bromofluorobenzene	0.0485		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0456		mg/kg wet	0.05000		91	70-130			
Surrogate: Toluene-d8	0.0487		mg/kg wet	0.05000		97	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0602	0.0050	mg/kg wet	0.05000		120	70-130	0.1	25	
1,1,1-Trichloroethane	0.0551	0.0050	mg/kg wet	0.05000		110	70-130	0.9	25	
1,1,2,2-Tetrachloroethane	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	0.1	25	
1,1,2-Trichloroethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
1,1-Dichloroethane	0.0452	0.0050	mg/kg wet	0.05000		90	70-130	0.8	25	
1,1-Dichloroethene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
1,1-Dichloropropene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	0.09	25	
1,2,3-Trichlorobenzene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
1,2,3-Trichloropropane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	0.2	25	
1,2,4-Trichlorobenzene	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	3	25	
1,2,4-Trimethylbenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	1	25	
1,2-Dibromo-3-Chloropropane	0.0563	0.0050	mg/kg wet	0.05000		113	70-130	2	25	
1,2-Dibromoethane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	0.5	25	
1,2-Dichlorobenzene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130	0.7	25	
1,2-Dichloroethane	0.0435	0.0050	mg/kg wet	0.05000		87	70-130	0.7	25	
1,2-Dichloropropane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	1	25	
1,3,5-Trimethylbenzene	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	0.04	25	
1,3-Dichlorobenzene	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	0.5	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch DG32107 - 5035										
1,3-Dichloropropane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
1,4-Dichlorobenzene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	1	25	
1,4-Dioxane	1.11	0.100	mg/kg wet	1.000		111	70-130	0.1	20	
1-Chlorohexane	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	0.6	25	
2,2-Dichloropropane	0.0643	0.0050	mg/kg wet	0.05000		129	70-130	2	25	
2-Butanone	0.239	0.0500	mg/kg wet	0.2500		96	70-130	0.1	25	
2-Chlorotoluene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	0.6	25	
2-Hexanone	0.240	0.0500	mg/kg wet	0.2500		96	70-130	2	25	
4-Chlorotoluene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	0.9	25	
4-Isopropyltoluene	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
4-Methyl-2-Pentanone	0.240	0.0500	mg/kg wet	0.2500		96	70-130	2	25	
Acetone	0.256	0.0500	mg/kg wet	0.2500		103	70-130	0.5	25	
Benzene	0.0473	0.0050	mg/kg wet	0.05000		95	70-130	0.5	25	
Bromobenzene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	0.5	25	
Bromochloromethane	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	0.2	25	
Bromodichloromethane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130	0.7	25	
Bromoform	0.0607	0.0050	mg/kg wet	0.05000		121	70-130	0.07	25	
Bromomethane	0.0436	0.0100	mg/kg wet	0.05000		87	70-130	5	25	
Carbon Disulfide	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	0.9	25	
Carbon Tetrachloride	0.0576	0.0050	mg/kg wet	0.05000		115	70-130	1	25	
Chlorobenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	0.7	25	
Chloroethane	0.0481	0.0100	mg/kg wet	0.05000		96	70-130	3	25	
Chloroform	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	0.7	25	
Chloromethane	0.0415	0.0100	mg/kg wet	0.05000		83	70-130	3	25	
cis-1,2-Dichloroethene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	0.6	25	
cis-1,3-Dichloropropene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	0.08	25	
Dibromochloromethane	0.0607	0.0050	mg/kg wet	0.05000		121	70-130	0.7	25	
Dibromomethane	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
Dichlorodifluoromethane	0.0357	0.0100	mg/kg wet	0.05000		71	70-130	0.8	25	
Diethyl Ether	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	0.3	25	
Di-isopropyl ether	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	0.6	25	
Ethyl tertiary-butyl ether	0.0607	0.0050	mg/kg wet	0.05000		121	70-130	1	25	
Ethylbenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	0.7	25	
Hexachlorobutadiene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	0.9	25	
Isopropylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	0.8	25	
Methyl tert-Butyl Ether	0.0577	0.0050	mg/kg wet	0.05000		115	70-130	1	25	
Methylene Chloride	0.0435	0.0250	mg/kg wet	0.05000		87	70-130	1	25	
Naphthalene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
n-Butylbenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	0.9	25	
n-Propylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	0.4	25	
sec-Butylbenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	0.7	25	
Styrene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	0.3	25	
tert-Butylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	0.5	25	
Tertiary-amyl methyl ether	0.0654	0.0050	mg/kg wet	0.05000		131	70-130	0.3	25	B+
Tetrachloroethene	0.0532	0.0050	mg/kg wet	0.05000		106	70-130	2	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32107 - 5035

Tetrahydrofuran	0.0466	0.0200	mg/kg wet	0.05000		93	70-130	3	25	
Toluene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	0.3	25	
trans-1,2-Dichloroethene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
trans-1,3-Dichloropropene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	0.4	25	
Trichloroethene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	0.2	25	
Trichlorofluoromethane	0.0433	0.0050	mg/kg wet	0.05000		87	70-130	0.3	25	
Vinyl Acetate	0.0619	0.0050	mg/kg wet	0.05000		124	70-130	2	25	
Vinyl Chloride	0.0443	0.0100	mg/kg wet	0.05000		89	70-130	0.8	25	
Xylene O	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	0.6	25	
Xylene P,M	0.108	0.0100	mg/kg wet	0.1000		108	70-130	0.06	25	
Surrogate: 1,2-Dichloroethane-d4	0.0416		mg/kg wet	0.05000		83	70-130			
Surrogate: 4-Bromofluorobenzene	0.0475		mg/kg wet	0.05000		95	70-130			
Surrogate: Dibromofluoromethane	0.0456		mg/kg wet	0.05000		91	70-130			
Surrogate: Toluene-d8	0.0479		mg/kg wet	0.05000		96	70-130			

8081B Organochlorine Pesticides

Batch DG32106 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Aldehyde	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32106 - 3546

Endrin Aldehyde [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0124		mg/kg wet	0.01250		99	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0124		mg/kg wet	0.01250		99	30-150			
Surrogate: Tetrachloro-m-xylene	0.0122		mg/kg wet	0.01250		98	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0125		mg/kg wet	0.01250		100	30-150			

LCS

4,4'-DDD	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
4,4'-DDD [2C]	0.0143	0.0025	mg/kg wet	0.01250		114	40-140			
4,4'-DDE	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
4,4'-DDE [2C]	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
4,4'-DDT	0.0128	0.0025	mg/kg wet	0.01250		103	40-140			
4,4'-DDT [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
Aldrin	0.0113	0.0025	mg/kg wet	0.01250		91	40-140			
Aldrin [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
alpha-BHC	0.0117	0.0025	mg/kg wet	0.01250		93	40-140			
alpha-BHC [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
alpha-Chlordane	0.0110	0.0025	mg/kg wet	0.01250		88	40-140			
alpha-Chlordane [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
beta-BHC	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
beta-BHC [2C]	0.0117	0.0025	mg/kg wet	0.01250		94	40-140			
delta-BHC	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
delta-BHC [2C]	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
Dieldrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Dieldrin [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
Endosulfan I	0.0103	0.0025	mg/kg wet	0.01250		83	40-140			
Endosulfan I [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
Endosulfan II	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Endosulfan II [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan Sulfate	0.0124	0.0025	mg/kg wet	0.01250		100	40-140			
Endosulfan Sulfate [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32106 - 3546

Endrin	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endrin [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endrin Aldehyde	0.0113	0.0025	mg/kg wet	0.01250		90	40-140			
Endrin Aldehyde [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Endrin Ketone	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endrin Ketone [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
gamma-BHC (Lindane)	0.0118	0.0015	mg/kg wet	0.01250		94	40-140			
gamma-BHC (Lindane) [2C]	0.0124	0.0015	mg/kg wet	0.01250		99	40-140			
gamma-Chlordane	0.0128	0.0025	mg/kg wet	0.01250		103	40-140			
gamma-Chlordane [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Heptachlor	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Heptachlor [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Heptachlor Epoxide	0.0113	0.0025	mg/kg wet	0.01250		90	40-140			
Heptachlor Epoxide [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Hexachlorobenzene	0.0113	0.0025	mg/kg wet	0.01250		91	40-140			
Hexachlorobenzene [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Methoxychlor	0.0132	0.0025	mg/kg wet	0.01250		106	40-140			
Methoxychlor [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Surrogate: Decachlorobiphenyl	0.0120		mg/kg wet	0.01250		96	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0121		mg/kg wet	0.01250		97	30-150			
Surrogate: Tetrachloro-m-xylene	0.0116		mg/kg wet	0.01250		93	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0121		mg/kg wet	0.01250		97	30-150			

LCS Dup

4,4'-DDD	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	4	30	
4,4'-DDD [2C]	0.0147	0.0025	mg/kg wet	0.01250		118	40-140	3	30	
4,4'-DDE	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	4	30	
4,4'-DDE [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	4	30	
4,4'-DDT	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	4	30	
4,4'-DDT [2C]	0.0139	0.0025	mg/kg wet	0.01250		111	40-140	5	30	
Aldrin	0.0118	0.0025	mg/kg wet	0.01250		95	40-140	4	30	
Aldrin [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	5	30	
alpha-BHC	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	4	30	
alpha-BHC [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140	5	30	
alpha-Chlordane	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	4	30	
alpha-Chlordane [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	4	30	
beta-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	3	30	
beta-BHC [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	4	30	
delta-BHC	0.0139	0.0025	mg/kg wet	0.01250		111	40-140	3	30	
delta-BHC [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	4	30	
Dieldrin	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	5	30	
Dieldrin [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	4	30	
Endosulfan I	0.0108	0.0025	mg/kg wet	0.01250		87	40-140	5	30	
Endosulfan I [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140	4	30	
Endosulfan II	0.0122	0.0025	mg/kg wet	0.01250		97	40-140	4	30	



CERTIFICATE OF ANALYSIS

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Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32106 - 3546

Endosulfan II [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	4	30	
Endosulfan Sulfate	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	5	30	
Endosulfan Sulfate [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140	4	30	
Endrin	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	4	30	
Endrin [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	5	30	
Endrin Aldehyde	0.0117	0.0025	mg/kg wet	0.01250		94	40-140	4	30	
Endrin Aldehyde [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	4	30	
Endrin Ketone	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	4	30	
Endrin Ketone [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	4	30	
gamma-BHC (Lindane)	0.0122	0.0015	mg/kg wet	0.01250		98	40-140	3	30	
gamma-BHC (Lindane) [2C]	0.0129	0.0015	mg/kg wet	0.01250		103	40-140	4	30	
gamma-Chlordane	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	4	30	
gamma-Chlordane [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	4	30	
Heptachlor	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	4	30	
Heptachlor [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	4	30	
Heptachlor Epoxide	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	4	30	
Heptachlor Epoxide [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	4	30	
Hexachlorobenzene	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	4	30	
Hexachlorobenzene [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	5	30	
Methoxychlor	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	3	30	
Methoxychlor [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0121		mg/kg wet	0.01250		97	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0121		mg/kg wet	0.01250		96	30-150			
Surrogate: Tetrachloro-m-xylene	0.0120		mg/kg wet	0.01250		96	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0122		mg/kg wet	0.01250		98	30-150			

8082A Polychlorinated Biphenyls (PCB)

Batch DG32103 - 3540C

Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							



CERTIFICATE OF ANALYSIS

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Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG32103 - 3540C

Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0210</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0226</i>		mg/kg wet	<i>0.02500</i>		<i>90</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0194</i>		mg/kg wet	<i>0.02500</i>		<i>78</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0210</i>		mg/kg wet	<i>0.02500</i>		<i>84</i>	<i>30-150</i>			

LCS

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		90	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		92	40-140			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0208</i>		mg/kg wet	<i>0.02500</i>		<i>83</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0225</i>		mg/kg wet	<i>0.02500</i>		<i>90</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0196</i>		mg/kg wet	<i>0.02500</i>		<i>78</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0198</i>		mg/kg wet	<i>0.02500</i>		<i>79</i>	<i>30-150</i>			

LCS Dup

Aroclor 1016	0.5	0.05	mg/kg wet	0.5000		90	40-140	4	30	
Aroclor 1016 [2C]	0.5	0.05	mg/kg wet	0.5000		93	40-140	4	30	
Aroclor 1260	0.5	0.05	mg/kg wet	0.5000		92	40-140	4	30	
Aroclor 1260 [2C]	0.5	0.05	mg/kg wet	0.5000		95	40-140	3	30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0214</i>		mg/kg wet	<i>0.02500</i>		<i>86</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0230</i>		mg/kg wet	<i>0.02500</i>		<i>92</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0204</i>		mg/kg wet	<i>0.02500</i>		<i>82</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0207</i>		mg/kg wet	<i>0.02500</i>		<i>83</i>	<i>30-150</i>			

8100M Total Petroleum Hydrocarbons

Batch DG31957 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DG31957 - 3546

Triacontane (C30)	ND	0.2	mg/kg wet							
<i>Surrogate: O-Terphenyl</i>	<i>3.88</i>		mg/kg wet	<i>5.000</i>		<i>78</i>	<i>40-140</i>			

LCS

Decane (C10)	1.7	0.2	mg/kg wet	2.500		69	40-140			
Docosane (C22)	2.1	0.2	mg/kg wet	2.500		85	40-140			
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Eicosane (C20)	2.1	0.2	mg/kg wet	2.500		85	40-140			
Hexacosane (C26)	2.2	0.2	mg/kg wet	2.500		88	40-140			
Hexadecane (C16)	2.1	0.2	mg/kg wet	2.500		82	40-140			
Nonadecane (C19)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Nonane (C9)	1.5	0.2	mg/kg wet	2.500		59	30-140			
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		85	40-140			
Octadecane (C18)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		78	40-140			
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		78	40-140			
Total Petroleum Hydrocarbons	29.7	37.5	mg/kg wet	35.00		85	40-140			
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		88	40-140			

<i>Surrogate: O-Terphenyl</i>	<i>3.33</i>		mg/kg wet	<i>5.000</i>		<i>67</i>	<i>40-140</i>			
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LCS Dup

Decane (C10)	1.9	0.2	mg/kg wet	2.500		74	40-140	7	25	
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		96	40-140	12	25	
Dodecane (C12)	2.1	0.2	mg/kg wet	2.500		84	40-140	11	25	
Eicosane (C20)	2.3	0.2	mg/kg wet	2.500		94	40-140	9	25	
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		99	40-140	11	25	
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		91	40-140	11	25	
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		96	40-140	14	25	
Nonane (C9)	1.5	0.2	mg/kg wet	2.500		62	30-140	4	25	
Octacosane (C28)	2.4	0.2	mg/kg wet	2.500		96	40-140	12	25	
Octadecane (C18)	2.4	0.2	mg/kg wet	2.500		94	40-140	13	25	
Tetracosane (C24)	2.2	0.2	mg/kg wet	2.500		88	40-140	12	25	
Tetradecane (C14)	2.1	0.2	mg/kg wet	2.500		86	40-140	10	25	
Total Petroleum Hydrocarbons	33.3	37.5	mg/kg wet	35.00		95	40-140	11	25	
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		98	40-140	11	25	

<i>Surrogate: O-Terphenyl</i>	<i>3.68</i>		mg/kg wet	<i>5.000</i>		<i>74</i>	<i>40-140</i>			
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

Blank										
1,1-Biphenyl	ND	0.025	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

1,4-Dichlorobenzene	ND	0.250	mg/kg wet
2,3,4,6-Tetrachlorophenol	ND	0.250	mg/kg wet
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet
2,4-Dichlorophenol	ND	0.250	mg/kg wet
2,4-Dimethylphenol	ND	0.250	mg/kg wet
2,4-Dinitrophenol	ND	1.00	mg/kg wet
2,4-Dinitrotoluene	ND	0.250	mg/kg wet
2,6-Dinitrotoluene	ND	0.250	mg/kg wet
2-Chloronaphthalene	ND	0.250	mg/kg wet
2-Chlorophenol	ND	0.250	mg/kg wet
2-Methylnaphthalene	ND	0.250	mg/kg wet
2-Methylphenol	ND	0.250	mg/kg wet
2-Nitroaniline	ND	0.500	mg/kg wet
2-Nitrophenol	ND	0.500	mg/kg wet
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet
3+4-Methylphenol	ND	0.250	mg/kg wet
3-Nitroaniline	ND	0.500	mg/kg wet
4,6-Dinitro-2-Methylphenol	ND	1.00	mg/kg wet
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet
4-Chloroaniline	ND	0.250	mg/kg wet
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet
4-Nitroaniline	ND	0.500	mg/kg wet
4-Nitrophenol	ND	1.00	mg/kg wet
Acenaphthene	ND	0.250	mg/kg wet
Acenaphthylene	ND	0.250	mg/kg wet
Acetophenone	ND	0.250	mg/kg wet
Aniline	ND	0.250	mg/kg wet
Anthracene	ND	0.250	mg/kg wet
Azobenzene	ND	0.250	mg/kg wet
Benzo(a)anthracene	ND	0.250	mg/kg wet
Benzo(a)pyrene	ND	0.250	mg/kg wet
Benzo(b)fluoranthene	ND	0.250	mg/kg wet
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet
Benzo(k)fluoranthene	ND	0.250	mg/kg wet
Benzoic Acid	ND	2.50	mg/kg wet
Benzyl Alcohol	ND	0.500	mg/kg wet
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet
bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet
Butylbenzylphthalate	ND	0.250	mg/kg wet
Carbazole	ND	0.250	mg/kg wet
Chrysene	ND	0.250	mg/kg wet



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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

Dibenzo(a,h)Anthracene	ND	0.250	mg/kg wet							
Dibenzofuran	ND	0.250	mg/kg wet							
Diethylphthalate	ND	0.250	mg/kg wet							
Dimethylphthalate	ND	0.250	mg/kg wet							
Di-n-butylphthalate	ND	0.250	mg/kg wet							
Di-n-octylphthalate	ND	0.500	mg/kg wet							
Fluoranthene	ND	0.250	mg/kg wet							
Fluorene	ND	0.250	mg/kg wet							
Hexachlorobenzene	ND	0.250	mg/kg wet							
Hexachlorobutadiene	ND	0.250	mg/kg wet							
Hexachlorocyclopentadiene	ND	0.500	mg/kg wet							
Hexachloroethane	ND	0.250	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet							
Isophorone	ND	0.250	mg/kg wet							
Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet							
N-nitrosodiphenylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	1.00	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Pyridine	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.35		mg/kg wet	2.500		94	30-130			
Surrogate: 2,4,6-Tribromophenol	3.61		mg/kg wet	3.750		96	30-130			
Surrogate: 2-Chlorophenol-d4	3.63		mg/kg wet	3.750		97	30-130			
Surrogate: 2-Fluorobiphenyl	2.28		mg/kg wet	2.500		91	30-130			
Surrogate: 2-Fluorophenol	3.42		mg/kg wet	3.750		91	30-130			
Surrogate: Nitrobenzene-d5	2.45		mg/kg wet	2.500		98	30-130			
Surrogate: Phenol-d6	3.80		mg/kg wet	3.750		101	30-130			
Surrogate: p-Terphenyl-d14	2.51		mg/kg wet	2.500		100	30-130			

LCS

1,1-Biphenyl	2.23	0.025	mg/kg wet	2.500		89	40-140			
1,2,4-Trichlorobenzene	1.96	0.250	mg/kg wet	2.500		78	40-140			
1,2-Dichlorobenzene	2.22	0.250	mg/kg wet	2.500		89	40-140			
1,3-Dichlorobenzene	2.07	0.250	mg/kg wet	2.500		83	40-140			
1,4-Dichlorobenzene	2.20	0.250	mg/kg wet	2.500		88	40-140			
2,3,4,6-Tetrachlorophenol	2.56	0.250	mg/kg wet	2.500		103	30-130			
2,4,5-Trichlorophenol	2.43	0.250	mg/kg wet	2.500		97	30-130			
2,4,6-Trichlorophenol	2.12	0.250	mg/kg wet	2.500		85	30-130			
2,4-Dichlorophenol	2.12	0.250	mg/kg wet	2.500		85	30-130			
2,4-Dimethylphenol	2.09	0.250	mg/kg wet	2.500		83	30-130			
2,4-Dinitrophenol	2.41	1.00	mg/kg wet	2.500		96	30-130			
2,4-Dinitrotoluene	2.59	0.250	mg/kg wet	2.500		104	40-140			



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

2,6-Dinitrotoluene	2.43	0.250	mg/kg wet	2.500		97	40-140			
2-Chloronaphthalene	2.30	0.250	mg/kg wet	2.500		92	40-140			
2-Chlorophenol	2.21	0.250	mg/kg wet	2.500		88	30-130			
2-Methylnaphthalene	2.07	0.250	mg/kg wet	2.500		83	40-140			
2-Methylphenol	2.31	0.250	mg/kg wet	2.500		93	30-130			
2-Nitroaniline	2.77	0.500	mg/kg wet	2.500		111	40-140			
2-Nitrophenol	2.01	0.500	mg/kg wet	2.500		80	30-130			
3,3'-Dichlorobenzidine	2.01	0.250	mg/kg wet	2.500		81	40-140			
3+4-Methylphenol	4.82	0.250	mg/kg wet	5.000		96	30-130			
3-Nitroaniline	2.65	0.500	mg/kg wet	2.500		106	40-140			
4,6-Dinitro-2-Methylphenol	2.57	1.00	mg/kg wet	2.500		103	30-130			
4-Bromophenyl-phenylether	2.28	0.250	mg/kg wet	2.500		91	40-140			
4-Chloro-3-Methylphenol	2.28	0.250	mg/kg wet	2.500		91	30-130			
4-Chloroaniline	1.91	0.250	mg/kg wet	2.500		77	40-140			
4-Chloro-phenyl-phenyl ether	2.40	0.250	mg/kg wet	2.500		96	40-140			
4-Nitroaniline	2.43	0.500	mg/kg wet	2.500		97	40-140			
4-Nitrophenol	2.00	1.00	mg/kg wet	2.500		80	30-130			
Acenaphthene	2.31	0.250	mg/kg wet	2.500		92	40-140			
Acenaphthylene	2.45	0.250	mg/kg wet	2.500		98	40-140			
Acetophenone	2.26	0.250	mg/kg wet	2.500		90	40-140			
Aniline	1.39	0.250	mg/kg wet	2.500		56	40-140			
Anthracene	2.40	0.250	mg/kg wet	2.500		96	40-140			
Azobenzene	2.09	0.250	mg/kg wet	2.500		84	40-140			
Benzo(a)anthracene	2.36	0.250	mg/kg wet	2.500		94	40-140			
Benzo(a)pyrene	2.56	0.250	mg/kg wet	2.500		103	40-140			
Benzo(b)fluoranthene	2.44	0.250	mg/kg wet	2.500		98	40-140			
Benzo(g,h,i)perylene	2.06	0.250	mg/kg wet	2.500		82	40-140			
Benzo(k)fluoranthene	2.42	0.250	mg/kg wet	2.500		97	40-140			
Benzoic Acid	1.51	2.50	mg/kg wet	2.500		61	40-140			
Benzyl Alcohol	1.80	0.500	mg/kg wet	2.500		72	40-140			
bis(2-Chloroethoxy)methane	1.85	0.250	mg/kg wet	2.500		74	40-140			
bis(2-Chloroethyl)ether	2.32	0.250	mg/kg wet	2.500		93	40-140			
bis(2-chloroisopropyl)Ether	1.95	0.250	mg/kg wet	2.500		78	40-140			
bis(2-Ethylhexyl)phthalate	2.34	0.250	mg/kg wet	2.500		93	40-140			
Butylbenzylphthalate	2.46	0.250	mg/kg wet	2.500		98	40-140			
Carbazole	2.47	0.250	mg/kg wet	2.500		99	40-140			
Chrysene	2.39	0.250	mg/kg wet	2.500		96	40-140			
Dibenzo(a,h)Anthracene	2.14	0.250	mg/kg wet	2.500		86	40-140			
Dibenzofuran	2.40	0.250	mg/kg wet	2.500		96	40-140			
Diethylphthalate	2.38	0.250	mg/kg wet	2.500		95	40-140			
Dimethylphthalate	2.40	0.250	mg/kg wet	2.500		96	40-140			
Di-n-butylphthalate	2.33	0.250	mg/kg wet	2.500		93	40-140			
Di-n-octylphthalate	2.86	0.500	mg/kg wet	2.500		115	40-140			
Fluoranthene	2.69	0.250	mg/kg wet	2.500		107	40-140			
Fluorene	2.48	0.250	mg/kg wet	2.500		99	40-140			



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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

Hexachlorobenzene	2.27	0.250	mg/kg wet	2.500		91	40-140			
Hexachlorobutadiene	1.99	0.250	mg/kg wet	2.500		80	40-140			
Hexachlorocyclopentadiene	1.67	0.500	mg/kg wet	2.500		67	40-140			
Hexachloroethane	2.07	0.250	mg/kg wet	2.500		83	40-140			
Indeno(1,2,3-cd)Pyrene	1.94	0.250	mg/kg wet	2.500		78	40-140			
Isophorone	1.91	0.250	mg/kg wet	2.500		76	40-140			
Naphthalene	1.95	0.250	mg/kg wet	2.500		78	40-140			
Nitrobenzene	2.06	0.250	mg/kg wet	2.500		82	40-140			
N-Nitrosodimethylamine	1.70	0.250	mg/kg wet	2.500		68	40-140			
N-Nitroso-Di-n-Propylamine	2.13	0.250	mg/kg wet	2.500		85	40-140			
N-nitrosodiphenylamine	1.75	0.250	mg/kg wet	2.500		70	40-140			
Pentachlorophenol	1.97	1.00	mg/kg wet	2.500		79	30-130			
Phenanthrene	2.23	0.250	mg/kg wet	2.500		89	40-140			
Phenol	2.69	0.250	mg/kg wet	2.500		108	30-130			
Pyrene	2.50	0.250	mg/kg wet	2.500		100	40-140			
Pyridine	2.13	0.250	mg/kg wet	2.500		85	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.16		mg/kg wet	2.500		87	30-130			
Surrogate: 2,4,6-Tribromophenol	3.50		mg/kg wet	3.750		93	30-130			
Surrogate: 2-Chlorophenol-d4	3.37		mg/kg wet	3.750		90	30-130			
Surrogate: 2-Fluorobiphenyl	2.23		mg/kg wet	2.500		89	30-130			
Surrogate: 2-Fluorophenol	3.26		mg/kg wet	3.750		87	30-130			
Surrogate: Nitrobenzene-d5	2.07		mg/kg wet	2.500		83	30-130			
Surrogate: Phenol-d6	3.51		mg/kg wet	3.750		94	30-130			
Surrogate: p-Terphenyl-d14	2.32		mg/kg wet	2.500		93	30-130			

LCS Dup

1,1-Biphenyl	2.01	0.025	mg/kg wet	2.500		80	40-140	10	30	
1,2,4-Trichlorobenzene	1.79	0.250	mg/kg wet	2.500		71	40-140	9	30	
1,2-Dichlorobenzene	1.96	0.250	mg/kg wet	2.500		78	40-140	13	30	
1,3-Dichlorobenzene	1.87	0.250	mg/kg wet	2.500		75	40-140	10	30	
1,4-Dichlorobenzene	2.02	0.250	mg/kg wet	2.500		81	40-140	9	30	
2,3,4,6-Tetrachlorophenol	2.18	0.250	mg/kg wet	2.500		87	30-130	16	30	
2,4,5-Trichlorophenol	2.13	0.250	mg/kg wet	2.500		85	30-130	13	30	
2,4,6-Trichlorophenol	1.86	0.250	mg/kg wet	2.500		74	30-130	13	30	
2,4-Dichlorophenol	1.91	0.250	mg/kg wet	2.500		76	30-130	11	30	
2,4-Dimethylphenol	1.92	0.250	mg/kg wet	2.500		77	30-130	8	30	
2,4-Dinitrophenol	2.13	1.00	mg/kg wet	2.500		85	30-130	12	30	
2,4-Dinitrotoluene	2.23	0.250	mg/kg wet	2.500		89	40-140	15	30	
2,6-Dinitrotoluene	2.12	0.250	mg/kg wet	2.500		85	40-140	14	30	
2-Chloronaphthalene	2.06	0.250	mg/kg wet	2.500		82	40-140	11	30	
2-Chlorophenol	1.99	0.250	mg/kg wet	2.500		80	30-130	11	30	
2-Methylnaphthalene	1.89	0.250	mg/kg wet	2.500		76	40-140	9	30	
2-Methylphenol	1.98	0.250	mg/kg wet	2.500		79	30-130	16	30	
2-Nitroaniline	2.38	0.500	mg/kg wet	2.500		95	40-140	15	30	
2-Nitrophenol	1.88	0.500	mg/kg wet	2.500		75	30-130	6	30	
3,3'-Dichlorobenzidine	1.90	0.250	mg/kg wet	2.500		76	40-140	6	30	



CERTIFICATE OF ANALYSIS

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Quality Control Data

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8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

3+4-Methylphenol	4.18	0.250	mg/kg wet	5.000		84	30-130	14	30	
3-Nitroaniline	2.24	0.500	mg/kg wet	2.500		89	40-140	17	30	
4,6-Dinitro-2-Methylphenol	2.47	1.00	mg/kg wet	2.500		99	30-130	4	30	
4-Bromophenyl-phenylether	2.15	0.250	mg/kg wet	2.500		86	40-140	6	30	
4-Chloro-3-Methylphenol	2.05	0.250	mg/kg wet	2.500		82	30-130	11	30	
4-Chloroaniline	1.74	0.250	mg/kg wet	2.500		69	40-140	10	30	
4-Chloro-phenyl-phenyl ether	2.12	0.250	mg/kg wet	2.500		85	40-140	13	30	
4-Nitroaniline	2.25	0.500	mg/kg wet	2.500		90	40-140	8	30	
4-Nitrophenol	1.76	1.00	mg/kg wet	2.500		70	30-130	13	30	
Acenaphthene	2.07	0.250	mg/kg wet	2.500		83	40-140	11	30	
Acenaphthylene	2.17	0.250	mg/kg wet	2.500		87	40-140	12	30	
Acetophenone	2.04	0.250	mg/kg wet	2.500		82	40-140	10	30	
Aniline	1.25	0.250	mg/kg wet	2.500		50	40-140	11	30	
Anthracene	2.22	0.250	mg/kg wet	2.500		89	40-140	8	30	
Azobenzene	1.99	0.250	mg/kg wet	2.500		79	40-140	5	30	
Benzo(a)anthracene	2.12	0.250	mg/kg wet	2.500		85	40-140	11	30	
Benzo(a)pyrene	2.41	0.250	mg/kg wet	2.500		97	40-140	6	30	
Benzo(b)fluoranthene	2.22	0.250	mg/kg wet	2.500		89	40-140	10	30	
Benzo(g,h,i)perylene	1.85	0.250	mg/kg wet	2.500		74	40-140	11	30	
Benzo(k)fluoranthene	2.20	0.250	mg/kg wet	2.500		88	40-140	9	30	
Benzoic Acid	1.32	2.50	mg/kg wet	2.500		53	40-140	14	30	
Benzyl Alcohol	1.55	0.500	mg/kg wet	2.500		62	40-140	15	30	
bis(2-Chloroethoxy)methane	1.70	0.250	mg/kg wet	2.500		68	40-140	8	30	
bis(2-Chloroethyl)ether	2.07	0.250	mg/kg wet	2.500		83	40-140	11	30	
bis(2-chloroisopropyl)Ether	1.76	0.250	mg/kg wet	2.500		70	40-140	10	30	
bis(2-Ethylhexyl)phthalate	2.04	0.250	mg/kg wet	2.500		82	40-140	14	30	
Butylbenzylphthalate	2.12	0.250	mg/kg wet	2.500		85	40-140	15	30	
Carbazole	2.25	0.250	mg/kg wet	2.500		90	40-140	9	30	
Chrysene	2.18	0.250	mg/kg wet	2.500		87	40-140	9	30	
Dibenzo(a,h)Anthracene	1.94	0.250	mg/kg wet	2.500		78	40-140	10	30	
Dibenzofuran	2.12	0.250	mg/kg wet	2.500		85	40-140	13	30	
Diethylphthalate	2.11	0.250	mg/kg wet	2.500		84	40-140	12	30	
Dimethylphthalate	2.08	0.250	mg/kg wet	2.500		83	40-140	14	30	
Di-n-butylphthalate	2.20	0.250	mg/kg wet	2.500		88	40-140	6	30	
Di-n-octylphthalate	2.45	0.500	mg/kg wet	2.500		98	40-140	15	30	
Fluoranthene	2.46	0.250	mg/kg wet	2.500		98	40-140	9	30	
Fluorene	2.19	0.250	mg/kg wet	2.500		88	40-140	12	30	
Hexachlorobenzene	2.09	0.250	mg/kg wet	2.500		84	40-140	8	30	
Hexachlorobutadiene	1.87	0.250	mg/kg wet	2.500		75	40-140	6	30	
Hexachlorocyclopentadiene	1.61	0.500	mg/kg wet	2.500		64	40-140	4	30	
Hexachloroethane	1.90	0.250	mg/kg wet	2.500		76	40-140	8	30	
Indeno(1,2,3-cd)Pyrene	1.79	0.250	mg/kg wet	2.500		72	40-140	8	30	
Isophorone	1.76	0.250	mg/kg wet	2.500		70	40-140	8	30	
Naphthalene	1.79	0.250	mg/kg wet	2.500		72	40-140	8	30	
Nitrobenzene	1.86	0.250	mg/kg wet	2.500		74	40-140	10	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

8270D Semi-Volatile Organic Compounds

Batch DG31953 - 3546

N-Nitrosodimethylamine	1.58	0.250	mg/kg wet	2.500		63	40-140	7	30	
N-Nitroso-Di-n-Propylamine	1.92	0.250	mg/kg wet	2.500		77	40-140	10	30	
N-nitrosodiphenylamine	1.65	0.250	mg/kg wet	2.500		66	40-140	6	30	
Pentachlorophenol	1.92	1.00	mg/kg wet	2.500		77	30-130	3	30	
Phenanthrene	2.07	0.250	mg/kg wet	2.500		83	40-140	8	30	
Phenol	2.31	0.250	mg/kg wet	2.500		92	30-130	15	30	
Pyrene	2.13	0.250	mg/kg wet	2.500		85	40-140	16	30	
Pyridine	1.95	0.250	mg/kg wet	2.500		78	40-140	9	30	
Surrogate: 1,2-Dichlorobenzene-d4	1.91		mg/kg wet	2.500		76	30-130			
Surrogate: 2,4,6-Tribromophenol	3.14		mg/kg wet	3.750		84	30-130			
Surrogate: 2-Chlorophenol-d4	2.95		mg/kg wet	3.750		79	30-130			
Surrogate: 2-Fluorobiphenyl	2.00		mg/kg wet	2.500		80	30-130			
Surrogate: 2-Fluorophenol	2.79		mg/kg wet	3.750		74	30-130			
Surrogate: Nitrobenzene-d5	1.81		mg/kg wet	2.500		73	30-130			
Surrogate: Phenol-d6	3.01		mg/kg wet	3.750		80	30-130			
Surrogate: p-Terphenyl-d14	1.95		mg/kg wet	2.500		78	30-130			

Classical Chemistry

Batch DG32024 - General Preparation

Blank										
Conductivity	ND	5	umhos/cm							

LCS										
Conductivity	1320		umhos/cm	1411		94	90-110			

Batch DG32033 - General Preparation

Reference										
Flashpoint	81		°F	81.00		100	97.9-102.1			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

Notes and Definitions

- Z-10a Soil pH measured in water at 21.4 °C.
- Z-10 Soil pH measured in water at 20.9 °C.
- Z-08 See Attached
- WL Results obtained from a deionized water leach of the sample.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- BT Benzidine tailing factor >2.
- B+ Blank Spike recovery is above upper control limit (B+).
- > Greater than.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probable Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0579

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>



195 Frances Avenue
 Cranston RI, 02910
 Phone: (401)-467-6454
 Fax: (401)-467-2398
cts.thielsch.com
Let's Build a Solid Foundation

Client Information:
 Downes Construction Co.
 Providence, RI
 Project Manager: Tim Thies
 Assigned By: ESS/Joe Desanti
 Collected By: Andrew Hook

Project Information:
Stockpile Characterization
Rogers High, Newport RI
 Project Number: 23G0579
 Summary Page: 1 of 1
 Report Date: 07.27.23

LABORATORY TESTING DATA SHEET, Report No.: 7423-G-180

Material Source	Sample No.	Depth (ft)	Laboratory No.	Identification Tests								Proctor / CBR / Permeability Tests							Laboratory Log and Soil Description			
				As Rcvd Moisture Content %	LL %	PL %	Gravel %	Sand %	Fines %	Org. %	pH	g_d MAX (pcf) W_{opt} (%)	g_d MAX (pcf) W_{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"		Permeability cm/sec		
				D2216	D4318	D6913			D2974	D4792	D1557											
Grab	DISP-106A	-	23G0579-01				16.4	37.6	46.0												Brown silty sand with gravel	
Grab	DISP-105A	-	23G0579-02				17.5	39.2	43.3												Brown silty sand with gravel	
Grab	DISP-106D	-	23G0579-03				25.1	34.5	40.4												Brown silty sand with gravel	
Grab	DISP-104D	-	23G0579-04				15.7	39.3	45.0												Olive silty sand with gravel	
Grab	DISP-305A	-	23G0579-05				4.2	17.8	78.0												Brown silt with sand	
Grab	DISP-305B	-	23G0579-06				7.8	21.7	70.5												Brown sandy silt	

Date Received: 07.20.23

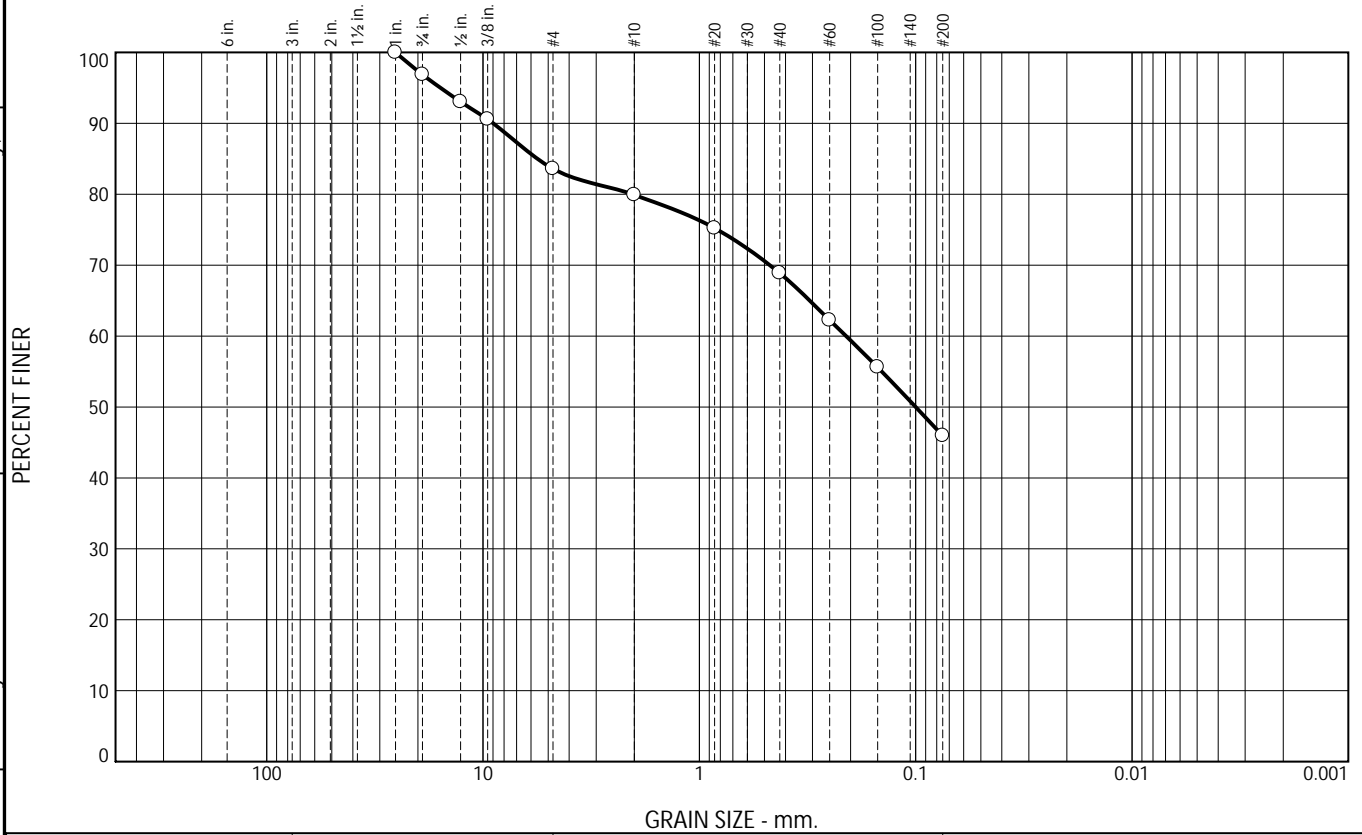
Reviewed By: 

Date Reviewed: 08.02.23

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 This report shall not be reproduced, except in full, without prior written approval from the Agency, as defined in ASTM E329.

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.1	13.3	3.7	11.0	22.9	46.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	96.9		
1/2"	93.0		
3/8"	90.6		
#4	83.6		
#10	79.9		
#20	75.2		
#40	68.9		
#60	62.2		
#100	55.6		
#200	46.0		

Soil Description

Brown silty sand with gravel

PL= NP Atterberg Limits LL= NV PI= NP
 D₉₀= 8.9775 D₈₅= 5.6066 D₆₀= 0.2098
 D₅₀= 0.1001 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Coefficients

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab
Sample Number: DISP-106A

Date: 07.26.23

Thielsch Engineering Inc.

Cranston, RI

Client: ESS Laboratory
Project: Stockpile Characterization
Newport, RI
Project No: 23G0579

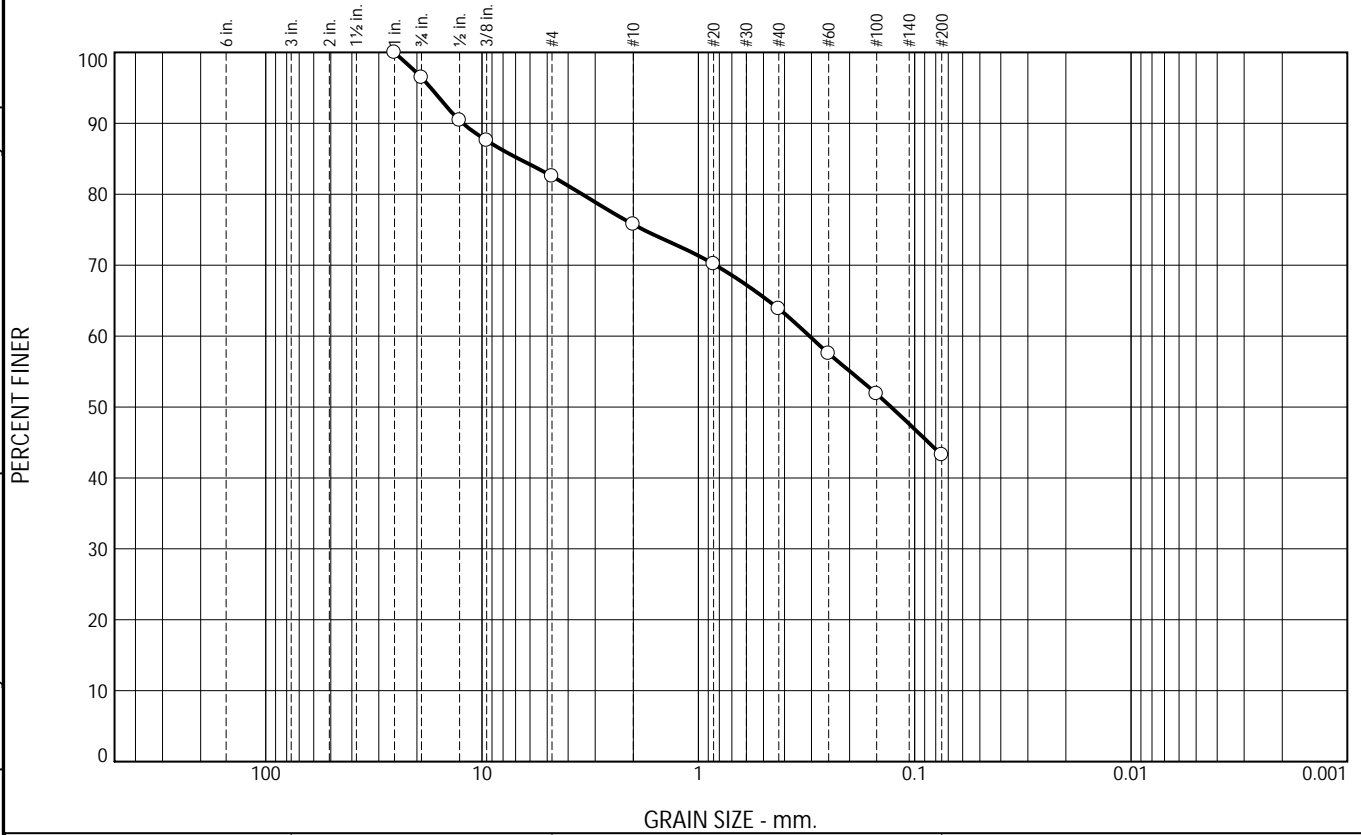
Fig. 23G0579-01

Tested By: RB / JB

Checked By: Rebecca Roth

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.5	14.0	6.7	12.0	20.5	43.3	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	96.5		
1/2"	90.4		
3/8"	87.6		
#4	82.5		
#10	75.8		
#20	70.2		
#40	63.8		
#60	57.5		
#100	51.9		
#200	43.3		

Soil Description

Brown silty sand with gravel

PL= NP Atterberg Limits LL= NV PI= NP
 D₉₀= 12.2589 Coefficients D₈₅= 6.7509 D₆₀= 0.3064
 D₅₀= 0.1286 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab
Sample Number: DISP-105A

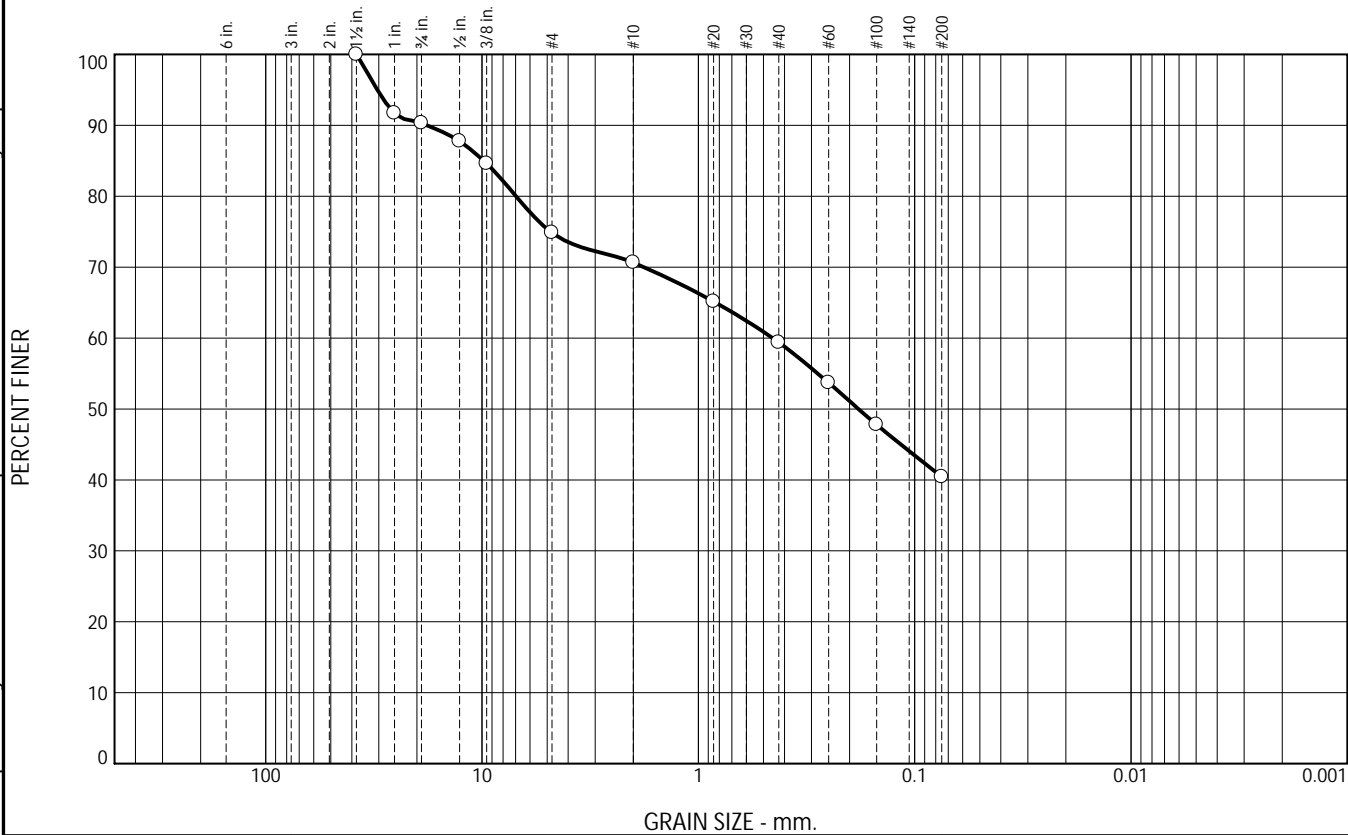
Date: 07.26.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization Newport, RI Project No: 23G0579
Fig. 23G0579-02	

Tested By: RB / JB Checked By: Rebecca Roth

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.7	15.4	4.3	11.2	19.0	40.4	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0		
1"	91.7		
3/4"	90.3		
1/2"	87.8		
3/8"	84.6		
#4	74.9		
#10	70.6		
#20	65.1		
#40	59.4		
#60	53.7		
#100	47.8		
#200	40.4		

Soil Description

Brown silty sand with gravel

PL= NP Atterberg Limits LL= NV PI= NP
 D₉₀= 17.9791 D₈₅= 9.8297 D₆₀= 0.4538
 D₅₀= 0.1819 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab
Sample Number: DISP-106D

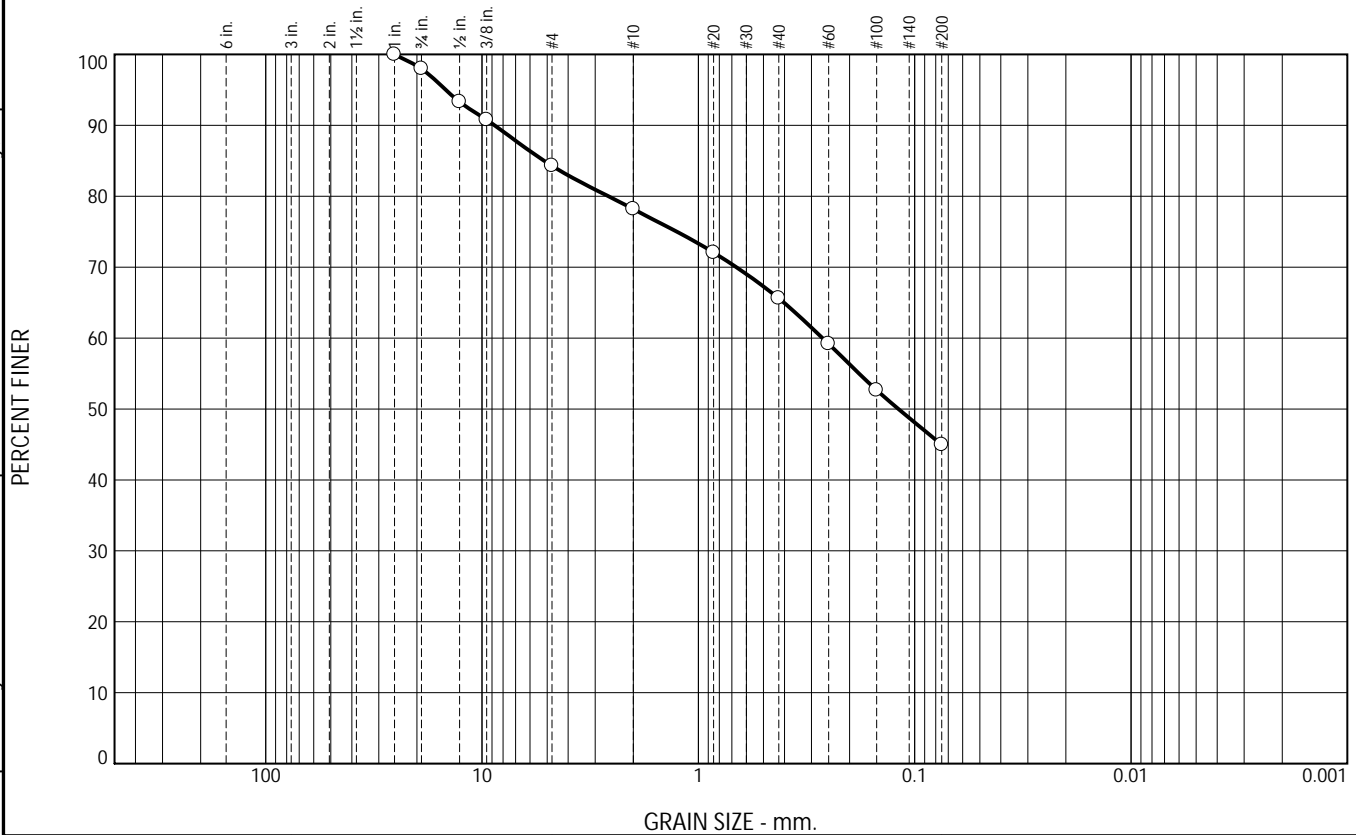
Date: 07.26.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization Newport, RI Project No: 23G0579
Fig. 23G0579-03	

Tested By: RB / JB Checked By: Rebecca Roth

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.0	13.7	6.1	12.6	20.6	45.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	98.0		
1/2"	93.3		
3/8"	90.8		
#4	84.3		
#10	78.2		
#20	72.1		
#40	65.6		
#60	59.2		
#100	52.7		
#200	45.0		

Soil Description

Olive silty sand with gravel

PL= NP Atterberg Limits LL= NV PI= NP
 D₉₀= 8.7589 Coefficients D₈₅= 5.1635 D₆₀= 0.2670
 D₅₀= 0.1190 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab
Sample Number: DISP-104D

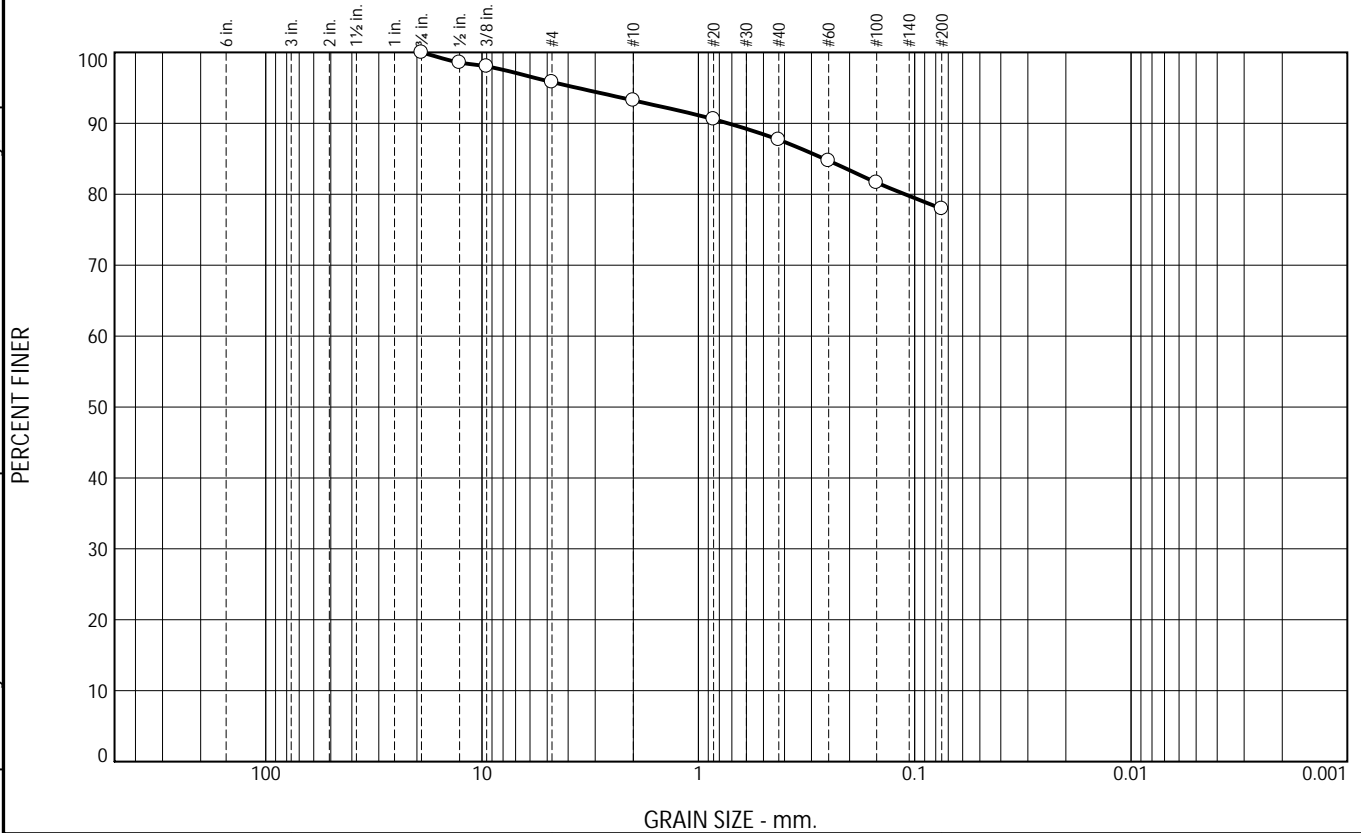
Date: 07.26.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization Newport, RI Project No: 23G0579
Fig. 23G0579-04	

Tested By: RB / JB Checked By: Rebecca Roth

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.2	2.6	5.5	9.7	78.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	98.6		
3/8"	98.0		
#4	95.8		
#10	93.2		
#20	90.6		
#40	87.7		
#60	84.7		
#100	81.6		
#200	78.0		

* (no specification provided)

Soil Description

Brown silt with sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 0.7268 D₈₅= 0.2616 D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= ML AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

Source of Sample: Grab
Sample Number: DISP-305A

Date: 07.25.23

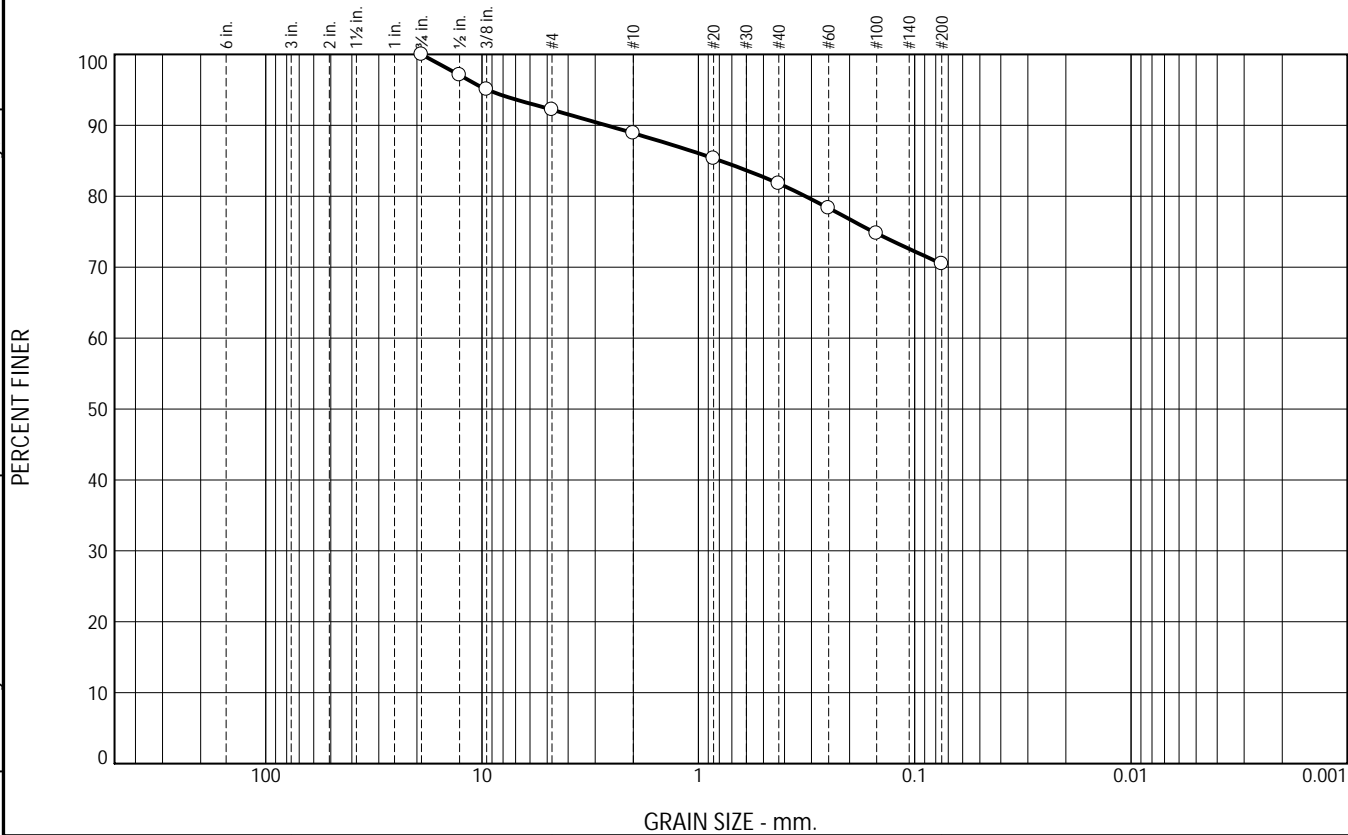
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization Newport, RI Project No: 23G0579
Fig. 23G0579-05	

Tested By: RB / JB

Checked By: Rebecca Roth

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	7.8	3.3	7.1	11.3	70.5	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	97.1		
3/8"	95.1		
#4	92.2		
#10	88.9		
#20	85.3		
#40	81.8		
#60	78.3		
#100	74.8		
#200	70.5		

Soil Description

Brown sandy silt

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 2.6548 D₈₅= 0.7906 D₆₀=
 D₅₀= D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= ML AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab
 Sample Number: DISP-305B

Date: 07.25.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization Newport, RI Project No: 23G0579
Fig. 23G0579-06	

Tested By: RB / JB Checked By: Rebecca Roth

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS

ESS Project ID: 23G0579
 Date Received: 7/19/2023
 Project Due Date: 7/26/2023
 Days for Project: 5 Day

Shipped/Delivered Via: Client

- 1. Air bill manifest present? No
Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
Temp: 5 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about **short holds & rushes**? Yes / No / NA
- 10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: 1--6
 Analysis: Sieve
 TAT: 5 day

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By/Acid Lot#: _____
 b. Low Level VOA vials frozen: Date: 7/19/23 Time: 1403 By: TD

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Resolution:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	454822	Yes	N/A	Yes	Plastic Baggie	NP	
2	454823	Yes	N/A	Yes	Plastic Baggie	NP	
3	454824	Yes	N/A	Yes	Plastic Baggie	NP	
4	454825	Yes	N/A	Yes	Plastic Baggie	NP	
5	454826	Yes	N/A	Yes	VOA Vial	DI Water	
5	454827	Yes	N/A	Yes	VOA Vial	DI Water	
5	454830	Yes	N/A	Yes	VOA Vial	MeOH	
5	454832	Yes	N/A	Yes	Driller Jar	NP	
5	454834	Yes	N/A	Yes	8 oz jar	NP	
5	454835	Yes	N/A	Yes	8 oz jar	NP	
6	454828	Yes	N/A	Yes	VOA Vial	DI Water	
6	454829	Yes	N/A	Yes	VOA Vial	DI Water	
6	454831	Yes	N/A	Yes	VOA Vial	MeOH	
6	454833	Yes	N/A	Yes	Driller Jar	NP	
6	454836	Yes	N/A	Yes	8 oz jar	NP	
6	454837	Yes	N/A	Yes	8 oz jar	NP	
7	454838	Yes	N/A	Yes	8 oz jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS

ESS Project ID: 23G0579
Date Received: 7/19/2023

2nd Review

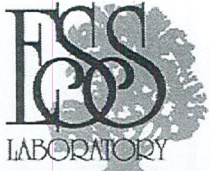
Were all containers scanned into storage/lab?

Initials TD

- Are barcode labels on correct containers? Yes / No
- Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
- Are all Hex Chrome stickers attached? Yes / No / NA
- Are all QC stickers attached? Yes / No / NA
- Are VOA stickers attached if bubbles noted? Yes / No / NA

Completed By: [Signature] Date & Time: 7/19/23 14:00

Reviewed By: Taylor Dawes Date & Time: 7/19/23 1403



185 Frances Avenue
Cranston, RI 02910
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 2360579 Page 1 of 1

Turn Time (Days) 5 4 3 2 1 Same Day

Regulatory State: Rhode Island Criteria: R-DEC, GA-LC

Is this project for any of the following?:
 CT RCP MA MCP RGP Permit 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

Limit Checker State Forms EQulS
 Excel State Upload Enviro Data
 CLP-Like Package Other (Specify) →

CLIENT INFORMATION				PROJECT INFORMATION					REQUESTED ANALYSES											Total Number of Bottles										
Client: Joe Desanti, Downes Construction Co.				Project Name: Stockpile Characterization		Client acknowledges that sampling is compliant with all EPA / State regulatory programs			VOCs (8260)	SVOCs (8270)	TPH (8100M)	RCRA 8 Metals (6010/7141)	Organochlorine Pesticides (8081)	PCBs (8082)	pH	Flashpoint	Conductivity	Sieve	Lead											
Address: 10 Dorrance Street Providence, RI				Project Location: Rogers High, Newport, RI		Project Number: 21106.00																								
Phone: (860) 229-3755				Project Manager: Tim Thies, Pare Corporation		Bill to: jdesanti@downesco.com																								
Email Distribution List: abarton@parecorp.com tthies@parecorp.com mflynn@parecorp.com				PO#: 21106.00		Quote#:																								

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOCs (8260)	SVOCs (8270)	TPH (8100M)	RCRA 8 Metals (6010/7141)	Organochlorine Pesticides (8081)	PCBs (8082)	pH	Flashpoint	Conductivity	Sieve	Lead													Total Number of Bottles	
1	07/19/23	0805	Grab	Soil	DISP-106A																X									6
2	↓	0810	↓	↓	DISP-105A																X									
3	↓	0820	↓	↓	DISP-106D																X									
4	↓	0830	↓	↓	DISP-104D																X									
5	↓	0845	↓	↓	DISP-305A	X	X	X	X	X	X	X	X	X	X	X	X													
6	↓	0905	↓	↓	DISP-305B	X	X	X	X	X	X	X	X	X	X	X	X													
7	↓	1040	Grab	Soil	TP23-5A													X												

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitaier J-Jar O-Other P-Poly S-Sterile V-Vial
 Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*
 Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*
 Sampled by: Andrew Hook (sign) Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only: Cooler Temperature (°C): 5 ice
 Comments: * Please specify "Other" preservative and containers types in this space
 Glassware: 2 x 8oz non-pres ambers, 2 x 40mL Stir Bar VOAs, 1 x 40mL MeOH VOA, 1 8-oz bag
 All samples submitted are subject to ESS Laboratory's payment terms and conditions.

Relinquished by (Signature) Date Time Received by (Signature) Relinquished by (Signature) Date Time Received by (Signature)

Relinquished by (Signature) Date Time Received by (Signature) Relinquished by (Signature) Date Time Received by (Signature)



CERTIFICATE OF ANALYSIS

Tim Thies
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

RE: Stockpile Characterization (21106.00)
ESS Laboratory Work Order Number: 23G0711

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:26 pm, Aug 03, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI

Sieve Analysis



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

SAMPLE RECEIPT

The following samples were received on July 21, 2023 for the analyses specified on the enclosed Chain of Custody Record.

Low Level VOA vials were frozen by ESS Laboratory on July 21, 2023 at 18:02.

The cooler temperature was not within the acceptance limit of <6°C, however, samples were delivered on ice and therefore meet regulatory criteria.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
23G0711-01	DISP-301A	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-02	DISP-301B	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-03	DISP-301C	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-04	DISP-301D	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-05	DISP-302A	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-06	DISP-302B	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-07	DISP-302C	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-08	DISP-302D	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-09	DISP-303A	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0711-10	DISP-303B	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

- D3G0437-CCV1 Continuing Calibration %Diff/Drift is above control limit (CD+).
1,1,1-Trichloroethane (33% @ 30%), 2,2-Dichloropropane (39% @ 30%), Carbon Tetrachloride (48% @ 30%)
- DG32521-BS1 Blank Spike recovery is above upper control limit (B+).
1,1,1-Trichloroethane (137% @ 70-130%), 2,2-Dichloropropane (144% @ 70-130%), Carbon Tetrachloride (150% @ 70-130%), Vinyl Acetate (136% @ 70-130%)
- DG32521-BSD1 Blank Spike recovery is above upper control limit (B+).
2,2-Dichloropropane (139% @ 70-130%), Carbon Tetrachloride (142% @ 70-130%), Vinyl Acetate (134% @ 70-130%)

8270D Semi-Volatile Organic Compounds

- D3G0443-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (120% @ 80-120%), 4,6-Dinitro-2-Methylphenol (138% @ 80-120%), Benzoic Acid (87% @ 80-120%)
- D3G0443-CCV1 Continuing Calibration %Diff/Drift is above control limit (CD+).
4,6-Dinitro-2-Methylphenol (38% @ 20%)
- D3G0443-CCV1 Continuing Calibration %Diff/Drift is below control limit (CD-).
4-Nitrophenol (23% @ 20%), Pentachlorophenol (25% @ 20%)
- D3G0443-TUN1 Pentachlorophenol tailing factor > 2.
- D3G0470-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (146% @ 80-120%), 2,4-Dinitrotoluene (111% @ 80-120%), 4,6-Dinitro-2-Methylphenol (123% @ 80-120%), Benzoic Acid (118% @ 80-120%), Di-n-octylphthalate (115% @ 80-120%)
- D3G0470-CCV1 Continuing Calibration %Diff/Drift is above control limit (CD+).
2,4-Dichlorophenol (26% @ 20%), 2,4-Dinitrophenol (46% @ 20%), 4,6-Dinitro-2-Methylphenol (23% @ 20%), Benzo(g,h,i)perylene (23% @ 20%), bis(2-Ethylhexyl)phthalate (29% @ 20%), Butylbenzylphthalate (30% @ 20%), Carbazole (25% @ 20%)
- D3G0470-CCV1 Continuing Calibration %Diff/Drift is below control limit (CD-).
N-Nitroso-Di-n-Propylamine (23% @ 20%)
- D3G0506-CCV1 Calibration required quadratic regression (Q).
2,4-Dinitrophenol (129% @ 80-120%), 4,6-Dinitro-2-Methylphenol (130% @ 80-120%), Benzoic Acid (86% @ 80-120%)
- D3G0506-CCV1 Continuing Calibration %Diff/Drift is above control limit (CD+).
2,4-Dinitrophenol (29% @ 20%), 2-Nitroaniline (26% @ 20%), 4,6-Dinitro-2-Methylphenol (30% @ 20%)
- D3G0506-TUN1 Benzidine tailing factor >2.

Total Metals

- DG32722-BSD1 Relative percent difference for duplicate is outside of criteria (D+).
Barium (33% @ 30%)



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.62 (2.56)		6010C		1	CEV	07/31/23 14:19	2.12	100	DG32722
Barium	17.4 (2.56)		6010C		1	CEV	07/31/23 14:19	2.12	100	DG32722
Cadmium	ND (0.51)		6010C		1	CEV	07/31/23 14:19	2.12	100	DG32722
Chromium	9.01 (1.03)		6010C		1	CEV	07/31/23 14:19	2.12	100	DG32722
Lead	6.06 (5.13)		6010C		1	CEV	07/31/23 14:19	2.12	100	DG32722
Mercury	ND (0.033)		7471B		1	BJV	07/27/23 12:23	0.66	40	DG32713
Selenium	ND (5.13)		6010C		1	CEV	07/31/23 14:19	2.12	100	DG32722
Silver	ND (0.51)		6010C		1	CEV	07/31/23 14:19	2.12	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1,4-Dioxane	ND (0.0777)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
1-Chlorohexane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
2-Butanone	ND (0.0388)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
2-Chlorotoluene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
2-Hexanone	ND (0.0388)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
4-Chlorotoluene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0388)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Acetone	ND (0.0388)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Benzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Bromobenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Bromodichloromethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Bromoform	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Bromomethane	ND (0.0078)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Carbon Disulfide	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Chlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Chloroethane	ND (0.0078)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Chloroform	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Chloromethane	ND (0.0078)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Dibromochloromethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Dibromomethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0078)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Diethyl Ether	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Di-isopropyl ether	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Ethylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Isopropylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Methylene Chloride	ND (0.0194)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Naphthalene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
n-Butylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
n-Propylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
sec-Butylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Styrene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
tert-Butylbenzene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Tetrachloroethene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Tetrahydrofuran	ND (0.0155)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-301A
 Date Sampled: 07/21/23 08:35
 Percent Solids: 92
 Initial Volume: 7g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Trichloroethene	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Vinyl Acetate	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Vinyl Chloride	ND (0.0078)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Xylene O	ND (0.0039)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Xylene P,M	ND (0.0078)		8260B Low		1	07/24/23 17:16	D3G0412	DG32425
Xylenes (Total)	ND (0.00777)		8260B Low		1	07/24/23 17:16		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>117 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 19.6g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
4,4'-DDE	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
4,4'-DDT	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Aldrin	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
alpha-BHC	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
alpha-Chlordane	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
beta-BHC	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Chlordane (Total)	ND (0.0333)		8081B		1	07/29/23 6:02	D3G0491	DG32412
delta-BHC	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Dieldrin	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Endosulfan I	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Endosulfan II	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Endrin	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Endrin Aldehyde	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Endrin Ketone	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 6:02	D3G0491	DG32412
gamma-Chlordane	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Heptachlor	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Hexachlorobenzene	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Methoxychlor	ND (0.0028)		8081B		1	07/29/23 6:02	D3G0491	DG32412
Toxaphene	ND (0.139)		8081B		1	07/29/23 6:02	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>96 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>91 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>93 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>93 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 19.7g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 17:10		DG32409
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: Decachlorobiphenyl</i>		84 %		30-150				
<i>Surrogate: Decachlorobiphenyl [2C]</i>		79 %		30-150				
<i>Surrogate: Tetrachloro-m-xylene</i>		73 %		30-150				
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>		78 %		30-150				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.3)		8100M		1	07/27/23 17:44		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		72 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/26/23 4:24	D3G0443	DG32146
1,2,4-Trichlorobenzene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
1,2-Dichlorobenzene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
1,3-Dichlorobenzene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
1,4-Dichlorobenzene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,4,5-Trichlorophenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,4,6-Trichlorophenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,4-Dichlorophenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,4-Dimethylphenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,4-Dinitrophenol	ND (1.13)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,4-Dinitrotoluene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2,6-Dinitrotoluene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2-Chloronaphthalene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2-Chlorophenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2-Methylnaphthalene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2-Methylphenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2-Nitroaniline	ND (0.566)		8270D		1	07/26/23 4:24	D3G0443	DG32146
2-Nitrophenol	ND (0.566)		8270D		1	07/26/23 4:24	D3G0443	DG32146
3,3'-Dichlorobenzidine	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
3+4-Methylphenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
3-Nitroaniline	ND (0.566)		8270D		1	07/26/23 4:24	D3G0443	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.13)		8270D		1	07/26/23 4:24	D3G0443	DG32146
4-Bromophenyl-phenylether	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
4-Chloro-3-Methylphenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
4-Chloroaniline	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
4-Nitroaniline	ND (0.566)		8270D		1	07/26/23 4:24	D3G0443	DG32146
4-Nitrophenol	ND (1.13)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Acenaphthene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Acenaphthylene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Acetophenone	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Anthracene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Azobenzene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Benzo(a)anthracene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Benzo(a)pyrene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Benzo(b)fluoranthene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Benzo(g,h,i)perylene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Benzo(k)fluoranthene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Benzoic Acid	ND (2.83)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Benzyl Alcohol	ND (0.566)		8270D		1	07/26/23 4:24	D3G0443	DG32146
bis(2-Chloroethoxy)methane	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
bis(2-Chloroethyl)ether	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
bis(2-chloroisopropyl)Ether	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Butylbenzylphthalate	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Carbazole	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Chrysene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Dibenzo(a,h)Anthracene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Dibenzofuran	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Diethylphthalate	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Dimethylphthalate	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Di-n-butylphthalate	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Di-n-octylphthalate	ND (0.566)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Fluoranthene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Fluorene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Hexachlorobenzene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Hexachlorobutadiene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Hexachlorocyclopentadiene	ND (0.566)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Hexachloroethane	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Isophorone	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Naphthalene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92
Initial Volume: 19.2g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
N-Nitrosodimethylamine	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
N-nitrosodiphenylamine	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Pentachlorophenol	ND (1.13)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Phenanthrene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Phenol	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Pyrene	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146
Pyridine	ND (0.283)		8270D		1	07/26/23 4:24	D3G0443	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	75 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	65 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	74 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	82 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	71 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	69 %		30-130
<i>Surrogate: Phenol-d6</i>	79 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	95 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35
Percent Solids: 92

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 96 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.26 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.5 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301A
Date Sampled: 07/21/23 08:35

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-01
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.22 (2.39)		6010C		1	CEV	07/31/23 14:21	2.41	100	DG32722
Barium	27.7 (2.39)		6010C		1	CEV	07/31/23 14:21	2.41	100	DG32722
Cadmium	ND (0.48)		6010C		1	CEV	07/31/23 14:21	2.41	100	DG32722
Chromium	18.2 (1.91)		6010C		2	CEV	08/01/23 9:59	2.41	100	DG32722
Lead	12.4 (9.54)		6010C		2	CEV	08/01/23 9:59	2.41	100	DG32722
Mercury	ND (0.037)		7471B		1	BJV	07/27/23 12:25	0.61	40	DG32713
Selenium	ND (0.48)		6020A		1	BJV	08/01/23 17:00	2.41	100	DG32722
Silver	ND (0.95)		6010C		2	CEV	08/01/23 9:59	2.41	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 6.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1,4-Dioxane	ND (0.0871)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
1-Chlorohexane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
2-Butanone	ND (0.0436)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
2-Chlorotoluene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
2-Hexanone	ND (0.0436)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
4-Chlorotoluene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0436)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Acetone	ND (0.0436)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Benzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Bromobenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 6.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Bromodichloromethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Bromoform	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Bromomethane	ND (0.0087)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Carbon Disulfide	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Chlorobenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Chloroethane	ND (0.0087)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Chloroform	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Chloromethane	ND (0.0087)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Dibromochloromethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Dibromomethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0087)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Diethyl Ether	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Di-isopropyl ether	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Ethylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Isopropylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Methylene Chloride	ND (0.0218)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Naphthalene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
n-Butylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
n-Propylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
sec-Butylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Styrene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
tert-Butylbenzene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Tetrachloroethene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Tetrahydrofuran	ND (0.0174)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 6.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Trichloroethene	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Vinyl Acetate	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Vinyl Chloride	ND (0.0087)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Xylene O	ND (0.0044)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Xylene P,M	ND (0.0087)		8260B Low		1	07/24/23 17:42	D3G0412	DG32425
Xylenes (Total)	ND (0.00871)		8260B Low		1	07/24/23 17:42		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>123 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>113 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>92 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 20.9g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
4,4'-DDE	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
4,4'-DDT	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Aldrin	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
alpha-BHC	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
alpha-Chlordane	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
beta-BHC	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Chlordane (Total)	ND (0.0330)		8081B		1	07/29/23 6:32	D3G0491	DG32412
delta-BHC	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Dieldrin [2C]	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Endosulfan I	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Endosulfan II	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Endrin	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Endrin Aldehyde	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Endrin Ketone	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 6:32	D3G0491	DG32412
gamma-Chlordane	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Heptachlor	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Hexachlorobenzene	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Methoxychlor	ND (0.0028)		8081B		1	07/29/23 6:32	D3G0491	DG32412
Toxaphene	ND (0.138)		8081B		1	07/29/23 6:32	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	98 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	92 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	95 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	96 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 20.1g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 17:30		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 17:30		DG32409

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	89 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	83 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	76 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	82 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 19.7g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.8)		8100M		1	07/28/23 19:48		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		77 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/26/23 4:55	D3G0443	DG32146
1,2,4-Trichlorobenzene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
1,2-Dichlorobenzene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
1,3-Dichlorobenzene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
1,4-Dichlorobenzene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,4,5-Trichlorophenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,4,6-Trichlorophenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,4-Dichlorophenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,4-Dimethylphenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,4-Dinitrophenol	ND (1.17)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,4-Dinitrotoluene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2,6-Dinitrotoluene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2-Chloronaphthalene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2-Chlorophenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2-Methylnaphthalene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2-Methylphenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2-Nitroaniline	ND (0.587)		8270D		1	07/26/23 4:55	D3G0443	DG32146
2-Nitrophenol	ND (0.587)		8270D		1	07/26/23 4:55	D3G0443	DG32146
3,3'-Dichlorobenzidine	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
3+4-Methylphenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
3-Nitroaniline	ND (0.587)		8270D		1	07/26/23 4:55	D3G0443	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.17)		8270D		1	07/26/23 4:55	D3G0443	DG32146
4-Bromophenyl-phenylether	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
4-Chloro-3-Methylphenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
4-Chloroaniline	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
4-Nitroaniline	ND (0.587)		8270D		1	07/26/23 4:55	D3G0443	DG32146
4-Nitrophenol	ND (1.17)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Acenaphthene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Acenaphthylene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Acetophenone	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Anthracene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Azobenzene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Benzo(a)anthracene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Benzo(a)pyrene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Benzo(b)fluoranthene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Benzo(g,h,i)perylene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Benzo(k)fluoranthene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Benzoic Acid	ND (2.93)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Benzyl Alcohol	ND (0.587)		8270D		1	07/26/23 4:55	D3G0443	DG32146
bis(2-Chloroethoxy)methane	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
bis(2-Chloroethyl)ether	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
bis(2-chloroisopropyl)Ether	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Butylbenzylphthalate	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Carbazole	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Chrysene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Dibenzo(a,h)Anthracene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Dibenzofuran	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Diethylphthalate	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Dimethylphthalate	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Di-n-butylphthalate	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Di-n-octylphthalate	ND (0.587)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Fluoranthene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Fluorene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Hexachlorobenzene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Hexachlorobutadiene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Hexachlorocyclopentadiene	ND (0.587)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Hexachloroethane	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Isophorone	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Naphthalene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
N-Nitrosodimethylamine	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
N-nitrosodiphenylamine	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Pentachlorophenol	ND (1.17)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Phenanthrene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Phenol	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Pyrene	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146
Pyridine	ND (0.293)		8270D		1	07/26/23 4:55	D3G0443	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	70 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	72 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	70 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	80 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	66 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	66 %		30-130
<i>Surrogate: Phenol-d6</i>	76 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	101 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50
Percent Solids: 87

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 188 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.34 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.5 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301B
Date Sampled: 07/21/23 08:50

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-02
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.26 (2.48)		6010C		1	CEV	07/31/23 14:23	2.25	100	DG32722
Barium	25.5 (2.48)		6010C		1	CEV	07/31/23 14:23	2.25	100	DG32722
Cadmium	ND (0.50)		6010C		1	CEV	07/31/23 14:23	2.25	100	DG32722
Chromium	12.7 (0.99)		6010C		1	CEV	07/31/23 14:23	2.25	100	DG32722
Lead	13.2 (4.96)		6010C		1	CEV	07/31/23 14:23	2.25	100	DG32722
Mercury	ND (0.035)		7471B		1	BJV	07/27/23 12:27	0.64	40	DG32713
Selenium	ND (4.96)		6010C		1	CEV	07/31/23 14:23	2.25	100	DG32722
Silver	ND (0.50)		6010C		1	CEV	07/31/23 14:23	2.25	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 7.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1,4-Dioxane	ND (0.0785)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
1-Chlorohexane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
2-Butanone	ND (0.0393)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
2-Chlorotoluene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
2-Hexanone	ND (0.0393)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
4-Chlorotoluene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0393)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Acetone	ND (0.0393)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Benzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Bromobenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 7.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Bromodichloromethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Bromoform	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Bromomethane	ND (0.0079)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Carbon Disulfide	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Chlorobenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Chloroethane	ND (0.0079)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Chloroform	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Chloromethane	ND (0.0079)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Dibromochloromethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Dibromomethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0079)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Diethyl Ether	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Di-isopropyl ether	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Ethylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Isopropylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Methylene Chloride	ND (0.0196)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Naphthalene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
n-Butylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
n-Propylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
sec-Butylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Styrene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
tert-Butylbenzene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Tetrachloroethene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Tetrahydrofuran	ND (0.0157)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 7.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Trichloroethene	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Vinyl Acetate	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Vinyl Chloride	ND (0.0079)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Xylene O	ND (0.0039)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Xylene P,M	ND (0.0079)		8260B Low		1	07/24/23 18:07	D3G0412	DG32425
Xylenes (Total)	ND (0.00785)		8260B Low		1	07/24/23 18:07		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>117 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-301C
 Date Sampled: 07/21/23 08:10
 Percent Solids: 90
 Initial Volume: 19g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-03
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
4,4'-DDE	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
4,4'-DDT	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Aldrin	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
alpha-BHC	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
alpha-Chlordane	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
beta-BHC	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Chlordane (Total)	ND (0.0352)		8081B		1	07/29/23 7:02	D3G0491	DG32412
delta-BHC	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Dieldrin	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Endosulfan I	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Endosulfan II	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Endrin	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Endrin Aldehyde	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Endrin Ketone	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0018)		8081B		1	07/29/23 7:02	D3G0491	DG32412
gamma-Chlordane	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Heptachlor	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Hexachlorobenzene	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Methoxychlor	ND (0.0029)		8081B		1	07/29/23 7:02	D3G0491	DG32412
Toxaphene	ND (0.147)		8081B		1	07/29/23 7:02	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	103 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	98 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	96 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	97 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 20.1g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 17:50		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 17:50		DG32409

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	86 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	80 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.7)		8100M		1	07/28/23 20:29		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		77 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 20.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/26/23 5:25	D3G0443	DG32146
1,2,4-Trichlorobenzene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
1,2-Dichlorobenzene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
1,3-Dichlorobenzene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
1,4-Dichlorobenzene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,4,5-Trichlorophenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,4,6-Trichlorophenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,4-Dichlorophenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,4-Dimethylphenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,4-Dinitrophenol	ND (1.08)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,4-Dinitrotoluene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2,6-Dinitrotoluene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2-Chloronaphthalene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2-Chlorophenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2-Methylnaphthalene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2-Methylphenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2-Nitroaniline	ND (0.541)		8270D		1	07/26/23 5:25	D3G0443	DG32146
2-Nitrophenol	ND (0.541)		8270D		1	07/26/23 5:25	D3G0443	DG32146
3,3'-Dichlorobenzidine	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
3+4-Methylphenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
3-Nitroaniline	ND (0.541)		8270D		1	07/26/23 5:25	D3G0443	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.08)		8270D		1	07/26/23 5:25	D3G0443	DG32146
4-Bromophenyl-phenylether	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
4-Chloro-3-Methylphenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
4-Chloroaniline	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
4-Nitroaniline	ND (0.541)		8270D		1	07/26/23 5:25	D3G0443	DG32146
4-Nitrophenol	ND (1.08)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Acenaphthene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Acenaphthylene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Acetophenone	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 20.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Anthracene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Azobenzene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Benzo(a)anthracene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Benzo(a)pyrene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Benzo(b)fluoranthene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Benzo(g,h,i)perylene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Benzo(k)fluoranthene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Benzoic Acid	ND (2.71)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Benzyl Alcohol	ND (0.541)		8270D		1	07/26/23 5:25	D3G0443	DG32146
bis(2-Chloroethoxy)methane	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
bis(2-Chloroethyl)ether	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
bis(2-chloroisopropyl)Ether	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Butylbenzylphthalate	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Carbazole	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Chrysene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Dibenzo(a,h)Anthracene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Dibenzofuran	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Diethylphthalate	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Dimethylphthalate	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Di-n-butylphthalate	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Di-n-octylphthalate	ND (0.541)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Fluoranthene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Fluorene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Hexachlorobenzene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Hexachlorobutadiene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Hexachlorocyclopentadiene	ND (0.541)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Hexachloroethane	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Isophorone	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Naphthalene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90
Initial Volume: 20.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
N-Nitrosodimethylamine	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
N-nitrosodiphenylamine	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Pentachlorophenol	ND (1.08)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Phenanthrene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Phenol	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Pyrene	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146
Pyridine	ND (0.271)		8270D		1	07/26/23 5:25	D3G0443	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	65 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	65 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	65 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	70 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	59 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	60 %		30-130
<i>Surrogate: Phenol-d6</i>	63 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	92 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 64 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	6.91 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.3 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301C
Date Sampled: 07/21/23 08:10

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-03
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.03 (2.44)		6010C		1	CEV	07/31/23 14:25	2.31	100	DG32722
Barium	26.7 (2.44)		6010C		1	CEV	07/31/23 14:25	2.31	100	DG32722
Cadmium	ND (0.49)		6010C		1	CEV	07/31/23 14:25	2.31	100	DG32722
Chromium	13.1 (0.98)		6010C		1	CEV	07/31/23 14:25	2.31	100	DG32722
Lead	13.4 (4.88)		6010C		1	CEV	07/31/23 14:25	2.31	100	DG32722
Mercury	ND (0.034)		7471B		1	BJV	07/27/23 12:29	0.66	40	DG32713
Selenium	ND (4.88)		6010C		1	CEV	07/31/23 14:25	2.31	100	DG32722
Silver	ND (0.49)		6010C		1	CEV	07/31/23 14:25	2.31	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89
Initial Volume: 6.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1,4-Dioxane	ND (0.0853)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
1-Chlorohexane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
2-Butanone	ND (0.0427)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
2-Chlorotoluene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
2-Hexanone	ND (0.0427)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
4-Chlorotoluene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0427)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Acetone	ND (0.0427)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Benzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Bromobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89
Initial Volume: 6.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Bromodichloromethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Bromoform	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Bromomethane	ND (0.0085)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Carbon Disulfide	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Chlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Chloroethane	ND (0.0085)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Chloroform	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Chloromethane	ND (0.0085)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Dibromochloromethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Dibromomethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0085)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Diethyl Ether	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Di-isopropyl ether	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Ethylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Isopropylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Methylene Chloride	ND (0.0213)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Naphthalene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
n-Butylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
n-Propylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
sec-Butylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Styrene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
tert-Butylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Tetrachloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Tetrahydrofuran	ND (0.0171)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-301D
 Date Sampled: 07/21/23 08:20
 Percent Solids: 89
 Initial Volume: 6.6g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-04
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Trichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Vinyl Acetate	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Vinyl Chloride	ND (0.0085)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Xylene O	ND (0.0043)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Xylene P,M	ND (0.0085)		8260B Low		1	07/24/23 18:33	D3G0412	DG32425
Xylenes (Total)	ND (0.00853)		8260B Low		1	07/24/23 18:33		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	119 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	93 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	111 %		70-130
<i>Surrogate: Toluene-d8</i>	93 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-301D
 Date Sampled: 07/21/23 08:20
 Percent Solids: 89
 Initial Volume: 20.9g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-04
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
4,4'-DDE	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
4,4'-DDT	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Aldrin	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
alpha-BHC	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
alpha-Chlordane	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
beta-BHC	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Chlordane (Total)	ND (0.0323)		8081B		1	07/29/23 7:32	D3G0491	DG32412
delta-BHC	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Dieldrin	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Endosulfan I	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Endosulfan II	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Endrin	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Endrin Aldehyde	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Endrin Ketone	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 7:32	D3G0491	DG32412
gamma-Chlordane	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Heptachlor	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Hexachlorobenzene	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Methoxychlor	ND (0.0027)		8081B		1	07/29/23 7:32	D3G0491	DG32412
Toxaphene	ND (0.135)		8081B		1	07/29/23 7:32	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	100 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	94 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	87 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	87 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89
Initial Volume: 20.3g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1260 [2C]	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 18:09		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 18:09		DG32409

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	85 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	79 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	80 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.3)		8100M		1	07/28/23 21:10		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		71 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/26/23 22:05	D3G0470	DG32146
1,2,4-Trichlorobenzene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
1,2-Dichlorobenzene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
1,3-Dichlorobenzene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
1,4-Dichlorobenzene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,4,5-Trichlorophenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,4,6-Trichlorophenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,4-Dichlorophenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,4-Dimethylphenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,4-Dinitrophenol	ND (1.16)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,4-Dinitrotoluene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2,6-Dinitrotoluene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2-Chloronaphthalene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2-Chlorophenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2-Methylnaphthalene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2-Methylphenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2-Nitroaniline	ND (0.581)		8270D		1	07/26/23 22:05	D3G0470	DG32146
2-Nitrophenol	ND (0.581)		8270D		1	07/26/23 22:05	D3G0470	DG32146
3,3'-Dichlorobenzidine	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
3+4-Methylphenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
3-Nitroaniline	ND (0.581)		8270D		1	07/26/23 22:05	D3G0470	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.16)		8270D		1	07/26/23 22:05	D3G0470	DG32146
4-Bromophenyl-phenylether	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
4-Chloro-3-Methylphenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
4-Chloroaniline	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
4-Nitroaniline	ND (0.581)		8270D		1	07/26/23 22:05	D3G0470	DG32146
4-Nitrophenol	ND (1.16)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Acenaphthene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Acenaphthylene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Acetophenone	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Anthracene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Azobenzene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Benzo(a)anthracene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Benzo(a)pyrene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Benzo(b)fluoranthene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Benzo(g,h,i)perylene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Benzo(k)fluoranthene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Benzoic Acid	ND (2.90)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Benzyl Alcohol	ND (0.581)		8270D		1	07/26/23 22:05	D3G0470	DG32146
bis(2-Chloroethoxy)methane	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
bis(2-Chloroethyl)ether	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
bis(2-chloroisopropyl)Ether	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Butylbenzylphthalate	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Carbazole	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Chrysene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Dibenzo(a,h)Anthracene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Dibenzofuran	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Diethylphthalate	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Dimethylphthalate	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Di-n-butylphthalate	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Di-n-octylphthalate	ND (0.581)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Fluoranthene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Fluorene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Hexachlorobenzene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Hexachlorobutadiene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Hexachlorocyclopentadiene	ND (0.581)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Hexachloroethane	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Isophorone	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Naphthalene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
N-Nitrosodimethylamine	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
N-nitrosodiphenylamine	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Pentachlorophenol	ND (1.16)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Phenanthrene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Phenol	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Pyrene	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146
Pyridine	ND (0.290)		8270D		1	07/26/23 22:05	D3G0470	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	76 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	73 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	67 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	71 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	65 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	62 %		30-130
<i>Surrogate: Phenol-d6</i>	64 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	93 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 146 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	6.75 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.4 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-301D
Date Sampled: 07/21/23 08:20

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-04
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.44 (2.45)		6010C		1	CEV	07/31/23 14:27	2.3	100	DG32722
Barium	28.1 (2.45)		6010C		1	CEV	07/31/23 14:27	2.3	100	DG32722
Cadmium	ND (0.49)		6010C		1	CEV	07/31/23 14:27	2.3	100	DG32722
Chromium	15.8 (1.96)		6010C		2	CEV	08/01/23 10:07	2.3	100	DG32722
Lead	21.4 (9.80)		6010C		2	CEV	08/01/23 10:07	2.3	100	DG32722
Mercury	ND (0.037)		7471B		1	BJV	07/27/23 12:31	0.61	40	DG32713
Selenium	ND (0.49)		6020A		1	BJV	08/01/23 17:06	2.3	100	DG32722
Silver	ND (0.98)		6010C		2	CEV	08/01/23 10:07	2.3	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 6.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1,4-Dioxane	ND (0.0853)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
1-Chlorohexane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
2-Butanone	ND (0.0427)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
2-Chlorotoluene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
2-Hexanone	ND (0.0427)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
4-Chlorotoluene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0427)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Acetone	ND (0.0427)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Benzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Bromobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 6.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Bromodichloromethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Bromoform	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Bromomethane	ND (0.0085)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Carbon Disulfide	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Chlorobenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Chloroethane	ND (0.0085)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Chloroform	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Chloromethane	ND (0.0085)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Dibromochloromethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Dibromomethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0085)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Diethyl Ether	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Di-isopropyl ether	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Ethylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Isopropylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Methylene Chloride	ND (0.0213)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Naphthalene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
n-Butylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
n-Propylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
sec-Butylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Styrene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
tert-Butylbenzene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Tetrachloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Tetrahydrofuran	ND (0.0171)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-302A
 Date Sampled: 07/21/23 09:00
 Percent Solids: 89
 Initial Volume: 6.6g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-05
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Trichloroethene	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Vinyl Acetate	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Vinyl Chloride	ND (0.0085)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Xylene O	ND (0.0043)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Xylene P,M	ND (0.0085)		8260B Low		1	07/24/23 18:58	D3G0412	DG32425
Xylenes (Total)	ND (0.00853)		8260B Low		1	07/24/23 18:58		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	121 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	93 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	113 %		70-130
<i>Surrogate: Toluene-d8</i>	93 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 19.3g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
4,4'-DDE	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
4,4'-DDT	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Aldrin	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
alpha-BHC	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
alpha-Chlordane	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
beta-BHC	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Chlordane (Total)	ND (0.0350)		8081B		1	07/29/23 11:02	D3G0491	DG32412
delta-BHC	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Dieldrin	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Endosulfan I	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Endosulfan II	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Endrin	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Endrin Aldehyde	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Endrin Ketone	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0018)		8081B		1	07/29/23 11:02	D3G0491	DG32412
gamma-Chlordane	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Heptachlor	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Hexachlorobenzene	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Methoxychlor	ND (0.0029)		8081B		1	07/29/23 11:02	D3G0491	DG32412
Toxaphene	ND (0.146)		8081B		1	07/29/23 11:02	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>91 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>85 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>83 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>82 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 20.5g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1221	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1232	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1242	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1248	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1254	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1260	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1262	ND (0.05)		8082A		1	07/25/23 18:29		DG32409
Aroclor 1268	ND (0.05)		8082A		1	07/25/23 18:29		DG32409

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	85 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	79 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	82 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.8)		8100M		1	07/29/23 1:44		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		77 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/26/23 22:35	D3G0470	DG32146
1,2,4-Trichlorobenzene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
1,2-Dichlorobenzene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
1,3-Dichlorobenzene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
1,4-Dichlorobenzene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,4,5-Trichlorophenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,4,6-Trichlorophenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,4-Dichlorophenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,4-Dimethylphenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,4-Dinitrophenol	ND (1.12)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,4-Dinitrotoluene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2,6-Dinitrotoluene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2-Chloronaphthalene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2-Chlorophenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2-Methylnaphthalene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2-Methylphenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2-Nitroaniline	ND (0.560)		8270D		1	07/26/23 22:35	D3G0470	DG32146
2-Nitrophenol	ND (0.560)		8270D		1	07/26/23 22:35	D3G0470	DG32146
3,3'-Dichlorobenzidine	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
3+4-Methylphenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
3-Nitroaniline	ND (0.560)		8270D		1	07/26/23 22:35	D3G0470	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.12)		8270D		1	07/26/23 22:35	D3G0470	DG32146
4-Bromophenyl-phenylether	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
4-Chloro-3-Methylphenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
4-Chloroaniline	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
4-Nitroaniline	ND (0.560)		8270D		1	07/26/23 22:35	D3G0470	DG32146
4-Nitrophenol	ND (1.12)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Acenaphthene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Acenaphthylene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Acetophenone	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Anthracene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Azobenzene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Benzo(a)anthracene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Benzo(a)pyrene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Benzo(b)fluoranthene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Benzo(g,h,i)perylene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Benzo(k)fluoranthene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Benzoic Acid	ND (2.80)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Benzyl Alcohol	ND (0.560)		8270D		1	07/26/23 22:35	D3G0470	DG32146
bis(2-Chloroethoxy)methane	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
bis(2-Chloroethyl)ether	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
bis(2-chloroisopropyl)Ether	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Butylbenzylphthalate	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Carbazole	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Chrysene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Dibenzo(a,h)Anthracene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Dibenzofuran	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Diethylphthalate	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Dimethylphthalate	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Di-n-butylphthalate	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Di-n-octylphthalate	ND (0.560)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Fluoranthene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Fluorene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Hexachlorobenzene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Hexachlorobutadiene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Hexachlorocyclopentadiene	ND (0.560)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Hexachloroethane	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Isophorone	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Naphthalene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
N-Nitrosodimethylamine	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
N-nitrosodiphenylamine	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Pentachlorophenol	ND (1.12)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Phenanthrene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Phenol	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Pyrene	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146
Pyridine	ND (0.280)		8270D		1	07/26/23 22:35	D3G0470	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	75 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	71 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	67 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	74 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	65 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	63 %		30-130
<i>Surrogate: Phenol-d6</i>	65 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	92 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 151 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.23 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.3 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302A
Date Sampled: 07/21/23 09:00

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-05
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.93 (2.41)		6010C		1	CEV	07/31/23 14:30	2.31	100	DG32722
Barium	30.5 (2.41)		6010C		1	CEV	07/31/23 14:30	2.31	100	DG32722
Cadmium	ND (0.48)		6010C		1	CEV	07/31/23 14:30	2.31	100	DG32722
Chromium	16.8 (1.93)		6010C		2	CEV	08/01/23 10:10	2.31	100	DG32722
Lead	18.2 (9.66)		6010C		2	CEV	08/01/23 10:10	2.31	100	DG32722
Mercury	ND (0.036)		7471B		1	BJV	07/27/23 12:33	0.61	40	DG32713
Selenium	ND (0.48)		6020A		1	BJV	08/01/23 17:11	2.31	100	DG32722
Silver	ND (0.97)		6010C		2	CEV	08/01/23 10:10	2.31	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1,4-Dioxane	ND (0.103)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
1-Chlorohexane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
2-Butanone	ND (0.0516)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
2-Chlorotoluene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
2-Hexanone	ND (0.0516)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
4-Chlorotoluene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0516)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Acetone	ND (0.0516)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Benzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Bromobenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Bromodichloromethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Bromoform	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Bromomethane	ND (0.0103)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Carbon Disulfide	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Chlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Chloroethane	ND (0.0103)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Chloroform	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Chloromethane	ND (0.0103)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Dibromochloromethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Dibromomethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0103)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Diethyl Ether	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Di-isopropyl ether	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Ethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Isopropylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Methylene Chloride	ND (0.0258)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Naphthalene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
n-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
n-Propylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
sec-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Styrene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
tert-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Tetrachloroethene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Tetrahydrofuran	ND (0.0207)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Trichloroethene	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Vinyl Acetate	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Vinyl Chloride	ND (0.0103)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Xylene O	ND (0.0052)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Xylene P,M	ND (0.0103)		8260B Low		1	07/24/23 19:24	D3G0412	DG32425
Xylenes (Total)	ND (0.0103)		8260B Low		1	07/24/23 19:24		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>123 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>114 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>92 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-302B
 Date Sampled: 07/21/23 09:10
 Percent Solids: 90
 Initial Volume: 20.4g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-06
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
4,4'-DDE	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
4,4'-DDT	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Aldrin	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
alpha-BHC	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
alpha-Chlordane	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
beta-BHC	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Chlordane (Total)	ND (0.0328)		8081B		1	07/29/23 11:32	D3G0491	DG32412
delta-BHC	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Dieldrin	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Endosulfan I	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Endosulfan II	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Endrin	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Endrin Aldehyde	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Endrin Ketone	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 11:32	D3G0491	DG32412
gamma-Chlordane	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Heptachlor	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Hexachlorobenzene [2C]	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Methoxychlor	ND (0.0027)		8081B		1	07/29/23 11:32	D3G0491	DG32412
Toxaphene	ND (0.137)		8081B		1	07/29/23 11:32	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	104 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	99 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	100 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	100 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90
Initial Volume: 20.5g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1221	ND (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1232	ND (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1242	ND (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1248	ND (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1254	ND (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1260	0.2 (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1262	ND (0.05)		8082A		1	07/25/23 18:49		DG32409
Aroclor 1268	ND (0.05)		8082A		1	07/25/23 18:49		DG32409

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	85 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	79 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	81 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.9)		8100M		1	07/28/23 21:50		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		73 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/26/23 23:06	D3G0470	DG32146
1,2,4-Trichlorobenzene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
1,2-Dichlorobenzene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
1,3-Dichlorobenzene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
1,4-Dichlorobenzene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,4,5-Trichlorophenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,4,6-Trichlorophenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,4-Dichlorophenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,4-Dimethylphenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,4-Dinitrophenol	ND (1.17)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,4-Dinitrotoluene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2,6-Dinitrotoluene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2-Chloronaphthalene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2-Chlorophenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2-Methylnaphthalene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2-Methylphenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2-Nitroaniline	ND (0.584)		8270D		1	07/26/23 23:06	D3G0470	DG32146
2-Nitrophenol	ND (0.584)		8270D		1	07/26/23 23:06	D3G0470	DG32146
3,3'-Dichlorobenzidine	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
3+4-Methylphenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
3-Nitroaniline	ND (0.584)		8270D		1	07/26/23 23:06	D3G0470	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.17)		8270D		1	07/26/23 23:06	D3G0470	DG32146
4-Bromophenyl-phenylether	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
4-Chloro-3-Methylphenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
4-Chloroaniline	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
4-Nitroaniline	ND (0.584)		8270D		1	07/26/23 23:06	D3G0470	DG32146
4-Nitrophenol	ND (1.17)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Acenaphthene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Acenaphthylene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Acetophenone	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Anthracene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Azobenzene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Benzo(a)anthracene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Benzo(a)pyrene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Benzo(b)fluoranthene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Benzo(g,h,i)perylene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Benzo(k)fluoranthene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Benzoic Acid	ND (2.92)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Benzyl Alcohol	ND (0.584)		8270D		1	07/26/23 23:06	D3G0470	DG32146
bis(2-Chloroethoxy)methane	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
bis(2-Chloroethyl)ether	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
bis(2-chloroisopropyl)Ether	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Butylbenzylphthalate	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Carbazole	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Chrysene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Dibenzo(a,h)Anthracene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Dibenzofuran	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Diethylphthalate	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Dimethylphthalate	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Di-n-butylphthalate	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Di-n-octylphthalate	ND (0.584)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Fluoranthene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Fluorene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Hexachlorobenzene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Hexachlorobutadiene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Hexachlorocyclopentadiene	ND (0.584)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Hexachloroethane	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Isophorone	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Naphthalene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-302B
 Date Sampled: 07/21/23 09:10
 Percent Solids: 90
 Initial Volume: 19.1g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-06
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: TJ
 Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
N-Nitrosodimethylamine	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
N-nitrosodiphenylamine	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Pentachlorophenol	ND (1.17)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Phenanthrene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Phenol	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Pyrene	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146
Pyridine	ND (0.292)		8270D		1	07/26/23 23:06	D3G0470	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	81 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	76 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	71 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	78 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	70 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	66 %		30-130
<i>Surrogate: Phenol-d6</i>	67 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	98 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 80 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	6.99 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302B
Date Sampled: 07/21/23 09:10

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-06
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.75 (2.71)		6010C		1	CEV	07/31/23 14:32	2.08	100	DG32722
Barium	24.0 (2.71)		6010C		1	CEV	07/31/23 14:32	2.08	100	DG32722
Cadmium	ND (0.54)		6010C		1	CEV	07/31/23 14:32	2.08	100	DG32722
Chromium	10.4 (1.08)		6010C		1	CEV	07/31/23 14:32	2.08	100	DG32722
Lead	27.1 (5.42)		6010C		1	CEV	07/31/23 14:32	2.08	100	DG32722
Mercury	ND (0.033)		7471B		1	BJV	07/27/23 12:35	0.68	40	DG32713
Selenium	ND (5.42)		6010C		1	CEV	07/31/23 14:32	2.08	100	DG32722
Silver	ND (0.54)		6010C		1	CEV	07/31/23 14:32	2.08	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89
Initial Volume: 6.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1,4-Dioxane	ND (0.0925)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
1-Chlorohexane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
2-Butanone	ND (0.0462)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
2-Chlorotoluene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
2-Hexanone	ND (0.0462)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
4-Chlorotoluene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0462)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Acetone	ND (0.0462)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Benzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Bromobenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89
Initial Volume: 6.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Bromodichloromethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Bromoform	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Bromomethane	ND (0.0092)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Carbon Disulfide	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Chlorobenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Chloroethane	ND (0.0092)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Chloroform	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Chloromethane	ND (0.0092)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Dibromochloromethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Dibromomethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0092)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Diethyl Ether	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Di-isopropyl ether	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Ethylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Isopropylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Methylene Chloride	ND (0.0231)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Naphthalene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
n-Butylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
n-Propylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
sec-Butylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Styrene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
tert-Butylbenzene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Tetrachloroethene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Tetrahydrofuran	ND (0.0185)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-302C
 Date Sampled: 07/21/23 09:20
 Percent Solids: 89
 Initial Volume: 6.1g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-07
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Trichloroethene	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Vinyl Acetate	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Vinyl Chloride	ND (0.0092)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Xylene O	ND (0.0046)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Xylene P,M	ND (0.0092)		8260B Low		1	07/24/23 19:49	D3G0412	DG32425
Xylenes (Total)	ND (0.00925)		8260B Low		1	07/24/23 19:49		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	121 %		70-130
<i>Surrogate: 4-Bromofluorobenzene</i>	93 %		70-130
<i>Surrogate: Dibromofluoromethane</i>	113 %		70-130
<i>Surrogate: Toluene-d8</i>	93 %		70-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89
Initial Volume: 20.4g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
4,4'-DDE	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
4,4'-DDT	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Aldrin	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
alpha-BHC	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
alpha-Chlordane	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
beta-BHC	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Chlordane (Total)	ND (0.0332)		8081B		1	07/29/23 12:03	D3G0491	DG32412
delta-BHC	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Dieldrin	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Endosulfan I	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Endosulfan II	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Endrin	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Endrin Aldehyde	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Endrin Ketone	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 12:03	D3G0491	DG32412
gamma-Chlordane	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Heptachlor	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Hexachlorobenzene	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Methoxychlor	ND (0.0028)		8081B		1	07/29/23 12:03	D3G0491	DG32412
Toxaphene	ND (0.138)		8081B		1	07/29/23 12:03	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>89 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>83 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>81 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>80 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89
Initial Volume: 20.4g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1260 [2C]	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 19:09		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 19:09		DG32409

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	85 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	82 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89
Initial Volume: 19.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.5)		8100M		1	07/28/23 22:29		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		79 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/26/23 23:37	D3G0470	DG32146
1,2,4-Trichlorobenzene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
1,2-Dichlorobenzene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
1,3-Dichlorobenzene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
1,4-Dichlorobenzene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,4,5-Trichlorophenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,4,6-Trichlorophenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,4-Dichlorophenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,4-Dimethylphenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,4-Dinitrophenol	ND (1.16)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,4-Dinitrotoluene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2,6-Dinitrotoluene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2-Chloronaphthalene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2-Chlorophenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2-Methylnaphthalene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2-Methylphenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2-Nitroaniline	ND (0.582)		8270D		1	07/26/23 23:37	D3G0470	DG32146
2-Nitrophenol	ND (0.582)		8270D		1	07/26/23 23:37	D3G0470	DG32146
3,3'-Dichlorobenzidine	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
3+4-Methylphenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
3-Nitroaniline	ND (0.582)		8270D		1	07/26/23 23:37	D3G0470	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.16)		8270D		1	07/26/23 23:37	D3G0470	DG32146
4-Bromophenyl-phenylether	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
4-Chloro-3-Methylphenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
4-Chloroaniline	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
4-Nitroaniline	ND (0.582)		8270D		1	07/26/23 23:37	D3G0470	DG32146
4-Nitrophenol	ND (1.16)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Acenaphthene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Acenaphthylene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Acetophenone	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Anthracene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Azobenzene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Benzo(a)anthracene	0.311 (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Benzo(a)pyrene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Benzo(b)fluoranthene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Benzo(g,h,i)perylene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Benzo(k)fluoranthene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Benzoic Acid	ND (2.91)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Benzyl Alcohol	ND (0.582)		8270D		1	07/26/23 23:37	D3G0470	DG32146
bis(2-Chloroethoxy)methane	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
bis(2-Chloroethyl)ether	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
bis(2-chloroisopropyl)Ether	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Butylbenzylphthalate	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Carbazole	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Chrysene	0.299 (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Dibenzo(a,h)Anthracene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Dibenzofuran	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Diethylphthalate	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Dimethylphthalate	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Di-n-butylphthalate	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Di-n-octylphthalate	ND (0.582)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Fluoranthene	0.690 (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Fluorene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Hexachlorobenzene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Hexachlorobutadiene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Hexachlorocyclopentadiene	ND (0.582)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Hexachloroethane	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Isophorone	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Naphthalene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-302C
 Date Sampled: 07/21/23 09:20
 Percent Solids: 89
 Initial Volume: 19.4g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-07
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: TJ
 Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
N-Nitrosodimethylamine	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
N-nitrosodiphenylamine	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Pentachlorophenol	ND (1.16)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Phenanthrene	0.678 (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Phenol	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Pyrene	0.610 (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146
Pyridine	ND (0.291)		8270D		1	07/26/23 23:37	D3G0470	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	71 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	70 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	63 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	74 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	62 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	60 %		30-130
<i>Surrogate: Phenol-d6</i>	61 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	87 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 232 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.48 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.3 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302C
Date Sampled: 07/21/23 09:20

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-07
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.95 (2.73)		6010C		1	CEV	07/31/23 14:34	2.06	100	DG32722
Barium	20.5 (2.73)		6010C		1	CEV	07/31/23 14:34	2.06	100	DG32722
Cadmium	ND (0.55)		6010C		1	CEV	07/31/23 14:34	2.06	100	DG32722
Chromium	10.8 (1.09)		6010C		1	CEV	07/31/23 14:34	2.06	100	DG32722
Lead	8.45 (5.47)		6010C		1	CEV	07/31/23 14:34	2.06	100	DG32722
Mercury	ND (0.033)		7471B		1	BJV	07/27/23 12:41	0.67	40	DG32713
Selenium	ND (5.47)		6010C		1	CEV	07/31/23 14:34	2.06	100	DG32722
Silver	ND (0.55)		6010C		1	CEV	07/31/23 14:34	2.06	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1,4-Dioxane	ND (0.101)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
1-Chlorohexane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
2-Butanone	ND (0.0503)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
2-Chlorotoluene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
2-Hexanone	ND (0.0503)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
4-Chlorotoluene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0503)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Acetone	ND (0.0503)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Benzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Bromobenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Bromodichloromethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Bromoform	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Bromomethane	ND (0.0101)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Carbon Disulfide	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Chlorobenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Chloroethane	ND (0.0101)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Chloroform	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Chloromethane	ND (0.0101)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Dibromochloromethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Dibromomethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0101)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Diethyl Ether	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Di-isopropyl ether	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Ethylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Isopropylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Methylene Chloride	ND (0.0251)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Naphthalene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
n-Butylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
n-Propylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
sec-Butylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Styrene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
tert-Butylbenzene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Tetrachloroethene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Tetrahydrofuran	ND (0.0201)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 5.6g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Trichloroethene	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Vinyl Acetate	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Vinyl Chloride	ND (0.0101)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Xylene O	ND (0.0050)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Xylene P,M	ND (0.0101)		8260B Low		1	07/24/23 20:14	D3G0412	DG32425
Xylenes (Total)	ND (0.0101)		8260B Low		1	07/24/23 20:14		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>121 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>115 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 20g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
4,4'-DDE	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
4,4'-DDT	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Aldrin	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
alpha-BHC	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
alpha-Chlordane	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
beta-BHC	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Chlordane (Total)	ND (0.0338)		8081B		1	07/29/23 12:33	D3G0491	DG32412
delta-BHC	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Dieldrin	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Endosulfan I	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Endosulfan II	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Endrin	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Endrin Aldehyde	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Endrin Ketone	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 12:33	D3G0491	DG32412
gamma-Chlordane	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Heptachlor	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Hexachlorobenzene	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Methoxychlor	ND (0.0028)		8081B		1	07/29/23 12:33	D3G0491	DG32412
Toxaphene	ND (0.141)		8081B		1	07/29/23 12:33	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	97 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	92 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	88 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	87 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 20.1g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 19:29		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 19:29		DG32409

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	85 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	79 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	76 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	82 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.8)		8100M		1	07/28/23 23:07		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		79 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/28/23 18:08	D3G0506	DG32146
1,2,4-Trichlorobenzene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
1,2-Dichlorobenzene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
1,3-Dichlorobenzene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
1,4-Dichlorobenzene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,4,5-Trichlorophenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,4,6-Trichlorophenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,4-Dichlorophenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,4-Dimethylphenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,4-Dinitrophenol	ND (1.15)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,4-Dinitrotoluene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2,6-Dinitrotoluene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2-Chloronaphthalene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2-Chlorophenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2-Methylnaphthalene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2-Methylphenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2-Nitroaniline	ND (0.575)		8270D		1	07/28/23 18:08	D3G0506	DG32146
2-Nitrophenol	ND (0.575)		8270D		1	07/28/23 18:08	D3G0506	DG32146
3,3'-Dichlorobenzidine	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
3+4-Methylphenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
3-Nitroaniline	ND (0.575)		8270D		1	07/28/23 18:08	D3G0506	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.15)		8270D		1	07/28/23 18:08	D3G0506	DG32146
4-Bromophenyl-phenylether	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
4-Chloro-3-Methylphenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
4-Chloroaniline	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
4-Nitroaniline	ND (0.575)		8270D		1	07/28/23 18:08	D3G0506	DG32146
4-Nitrophenol	ND (1.15)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Acenaphthene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Acenaphthylene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Acetophenone	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Anthracene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Azobenzene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Benzo(a)anthracene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Benzo(a)pyrene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Benzo(b)fluoranthene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Benzo(g,h,i)perylene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Benzo(k)fluoranthene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Benzoic Acid	ND (2.87)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Benzyl Alcohol	ND (0.575)		8270D		1	07/28/23 18:08	D3G0506	DG32146
bis(2-Chloroethoxy)methane	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
bis(2-Chloroethyl)ether	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
bis(2-chloroisopropyl)Ether	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Butylbenzylphthalate	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Carbazole	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Chrysene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Dibenzo(a,h)Anthracene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Dibenzofuran	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Diethylphthalate	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Dimethylphthalate	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Di-n-butylphthalate	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Di-n-octylphthalate	ND (0.575)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Fluoranthene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Fluorene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Hexachlorobenzene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Hexachlorobutadiene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Hexachlorocyclopentadiene	ND (0.575)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Hexachloroethane	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Isophorone	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Naphthalene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-302D
 Date Sampled: 07/21/23 09:30
 Percent Solids: 89
 Initial Volume: 19.6g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-08
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
N-Nitrosodimethylamine	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
N-nitrosodiphenylamine	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Pentachlorophenol	ND (1.15)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Phenanthrene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Phenol	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Pyrene	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146
Pyridine	ND (0.287)		8270D		1	07/28/23 18:08	D3G0506	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	75 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	83 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	73 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	77 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	74 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	81 %		30-130
<i>Surrogate: Phenol-d6</i>	79 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	84 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 206 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.39 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.0 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-302D
Date Sampled: 07/21/23 09:30

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-08
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	3.31 (2.42)		6010C		1	CEV	07/31/23 14:36	2.3	100	DG32722
Barium	16.3 (2.42)		6010C		1	CEV	07/31/23 14:36	2.3	100	DG32722
Cadmium	ND (0.48)		6010C		1	CEV	07/31/23 14:36	2.3	100	DG32722
Chromium	10.0 (0.97)		6010C		1	CEV	07/31/23 14:36	2.3	100	DG32722
Lead	6.94 (4.85)		6010C		1	CEV	07/31/23 14:36	2.3	100	DG32722
Mercury	ND (0.036)		7471B		1	BJV	07/27/23 12:43	0.61	40	DG32713
Selenium	ND (4.85)		6010C		1	CEV	07/31/23 14:36	2.3	100	DG32722
Silver	ND (0.48)		6010C		1	CEV	07/31/23 14:36	2.3	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1,4-Dioxane	ND (0.103)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
1-Chlorohexane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
2-Butanone	ND (0.0516)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
2-Chlorotoluene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
2-Hexanone	ND (0.0516)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
4-Chlorotoluene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0516)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Acetone	ND (0.0516)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Benzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Bromobenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Bromodichloromethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Bromoform	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Bromomethane	ND (0.0103)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Carbon Disulfide	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Chlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Chloroethane	ND (0.0103)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Chloroform	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Chloromethane	ND (0.0103)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Dibromochloromethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Dibromomethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0103)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Diethyl Ether	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Di-isopropyl ether	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Ethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Isopropylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Methylene Chloride	ND (0.0258)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Naphthalene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
n-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
n-Propylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
sec-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Styrene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
tert-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Tetrachloroethene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Tetrahydrofuran	ND (0.0207)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Trichloroethene	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Vinyl Acetate	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Vinyl Chloride	ND (0.0103)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Xylene O	ND (0.0052)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Xylene P,M	ND (0.0103)		8260B Low		1	07/24/23 20:40	D3G0412	DG32425
Xylenes (Total)	ND (0.0103)		8260B Low		1	07/24/23 20:40		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>122 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 20.9g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
4,4'-DDE	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
4,4'-DDT	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Aldrin	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
alpha-BHC	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
alpha-Chlordane	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
beta-BHC	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Chlordane (Total)	ND (0.0320)		8081B		1	07/29/23 13:03	D3G0491	DG32412
delta-BHC	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Dieldrin	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Endosulfan I	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Endosulfan II	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Endrin	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Endrin Aldehyde	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Endrin Ketone	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 13:03	D3G0491	DG32412
gamma-Chlordane	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Heptachlor	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Hexachlorobenzene	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Methoxychlor	ND (0.0027)		8081B		1	07/29/23 13:03	D3G0491	DG32412
Toxaphene	ND (0.133)		8081B		1	07/29/23 13:03	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>93 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>93 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>86 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>88 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 19.9g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 19:48		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 19:48		DG32409

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	91 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	85 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	80 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	86 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.1)		8100M		1	07/28/23 23:46		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		79 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.029)		8270D		1	07/28/23 18:39	D3G0506	DG32146
1,2,4-Trichlorobenzene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
1,2-Dichlorobenzene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
1,3-Dichlorobenzene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
1,4-Dichlorobenzene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,3,4,6-Tetrachlorophenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,4,5-Trichlorophenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,4,6-Trichlorophenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,4-Dichlorophenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,4-Dimethylphenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,4-Dinitrophenol	ND (1.16)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,4-Dinitrotoluene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2,6-Dinitrotoluene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2-Chloronaphthalene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2-Chlorophenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2-Methylnaphthalene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2-Methylphenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2-Nitroaniline	ND (0.578)		8270D		1	07/28/23 18:39	D3G0506	DG32146
2-Nitrophenol	ND (0.578)		8270D		1	07/28/23 18:39	D3G0506	DG32146
3,3'-Dichlorobenzidine	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
3+4-Methylphenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
3-Nitroaniline	ND (0.578)		8270D		1	07/28/23 18:39	D3G0506	DG32146
4,6-Dinitro-2-Methylphenol	ND (1.16)		8270D		1	07/28/23 18:39	D3G0506	DG32146
4-Bromophenyl-phenylether	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
4-Chloro-3-Methylphenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
4-Chloroaniline	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
4-Chloro-phenyl-phenyl ether	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
4-Nitroaniline	ND (0.578)		8270D		1	07/28/23 18:39	D3G0506	DG32146
4-Nitrophenol	ND (1.16)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Acenaphthene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Acenaphthylene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Acetophenone	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Anthracene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Azobenzene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Benzo(a)anthracene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Benzo(a)pyrene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Benzo(b)fluoranthene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Benzo(g,h,i)perylene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Benzo(k)fluoranthene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Benzoic Acid	ND (2.89)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Benzyl Alcohol	ND (0.578)		8270D		1	07/28/23 18:39	D3G0506	DG32146
bis(2-Chloroethoxy)methane	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
bis(2-Chloroethyl)ether	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
bis(2-chloroisopropyl)Ether	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
bis(2-Ethylhexyl)phthalate	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Butylbenzylphthalate	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Carbazole	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Chrysene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Dibenzo(a,h)Anthracene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Dibenzofuran	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Diethylphthalate	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Dimethylphthalate	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Di-n-butylphthalate	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Di-n-octylphthalate	ND (0.578)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Fluoranthene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Fluorene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Hexachlorobenzene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Hexachlorobutadiene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Hexachlorocyclopentadiene	ND (0.578)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Hexachloroethane	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Indeno(1,2,3-cd)Pyrene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Isophorone	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Naphthalene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-303A
 Date Sampled: 07/21/23 12:30
 Percent Solids: 90
 Initial Volume: 19.3g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-09
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 7/21/23 18:59

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
N-Nitrosodimethylamine	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
N-Nitroso-Di-n-Propylamine	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
N-nitrosodiphenylamine	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Pentachlorophenol	ND (1.16)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Phenanthrene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Phenol	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Pyrene	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146
Pyridine	ND (0.289)		8270D		1	07/28/23 18:39	D3G0506	DG32146

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	73 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	79 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	72 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	76 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	72 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	80 %		30-130
<i>Surrogate: Phenol-d6</i>	74 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	87 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30
Percent Solids: 90

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 63 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	6.79 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.2 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303A
Date Sampled: 07/21/23 12:30

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-09
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.10 (2.28)		6010C		1	CEV	07/31/23 14:46	2.47	100	DG32722
Barium	27.0 (2.28)		6010C		1	CEV	07/31/23 14:46	2.47	100	DG32722
Cadmium	ND (0.46)		6010C		1	CEV	07/31/23 14:46	2.47	100	DG32722
Chromium	12.2 (1.82)		6010C		2	CEV	08/01/23 10:12	2.47	100	DG32722
Lead	27.7 (9.12)		6010C		2	CEV	08/01/23 10:12	2.47	100	DG32722
Mercury	ND (0.037)		7471B		1	BJV	07/27/23 12:45	0.61	40	DG32713
Selenium	ND (0.46)		6020A		1	BJV	08/01/23 17:17	2.47	100	DG32722
Silver	ND (0.91)		6010C		2	CEV	08/01/23 10:12	2.47	100	DG32722



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,1,1-Trichloroethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,1,2,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,1,2-Trichloroethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,1-Dichloroethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,1-Dichloroethene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,1-Dichloropropene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2,3-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2,3-Trichloropropane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2,4-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2,4-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2-Dibromo-3-Chloropropane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2-Dibromoethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2-Dichloroethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,3,5-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,3-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,3-Dichloropropane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,4-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1,4-Dioxane	ND (0.0971)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
1-Chlorohexane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
2,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
2-Butanone	ND (0.0486)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
2-Chlorotoluene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
2-Hexanone	ND (0.0486)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
4-Chlorotoluene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
4-Isopropyltoluene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
4-Methyl-2-Pentanone	ND (0.0486)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Acetone	ND (0.0486)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Benzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Bromobenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Bromodichloromethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Bromoform	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Bromomethane	ND (0.0097)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Carbon Disulfide	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Carbon Tetrachloride	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Chlorobenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Chloroethane	ND (0.0097)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Chloroform	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Chloromethane	ND (0.0097)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
cis-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
cis-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Dibromochloromethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Dibromomethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Dichlorodifluoromethane	ND (0.0097)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Diethyl Ether	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Di-isopropyl ether	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Ethyl tertiary-butyl ether	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Ethylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Hexachlorobutadiene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Isopropylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Methyl tert-Butyl Ether	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Methylene Chloride	ND (0.0243)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Naphthalene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
n-Butylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
n-Propylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
sec-Butylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Styrene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
tert-Butylbenzene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Tertiary-amyl methyl ether	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Tetrachloroethene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Tetrahydrofuran	ND (0.0194)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
trans-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
trans-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Trichloroethene	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Trichlorofluoromethane	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Vinyl Acetate	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Vinyl Chloride	ND (0.0097)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Xylene O	ND (0.0049)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Xylene P,M	ND (0.0097)		8260B Low		1	07/25/23 13:35	D3G0437	DG32521
Xylenes (Total)	ND (0.00971)		8260B Low		1	07/25/23 13:35		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>91 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-303B
 Date Sampled: 07/21/23 12:40
 Percent Solids: 89
 Initial Volume: 20.9g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-10
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
4,4'-DDE	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
4,4'-DDT	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Aldrin	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
alpha-BHC	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
alpha-Chlordane	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
beta-BHC	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Chlordane (Total)	ND (0.0323)		8081B		1	07/29/23 13:33	D3G0491	DG32412
delta-BHC	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Dieldrin	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Endosulfan I	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Endosulfan II	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Endrin	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Endrin Aldehyde	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Endrin Ketone	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 13:33	D3G0491	DG32412
gamma-Chlordane	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Heptachlor	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Hexachlorobenzene	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Methoxychlor	ND (0.0027)		8081B		1	07/29/23 13:33	D3G0491	DG32412
Toxaphene	ND (0.135)		8081B		1	07/29/23 13:33	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	97 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	94 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	84 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	83 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89
Initial Volume: 20g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/24/23 10:24

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1221	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1232	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1242	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1248	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1254	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1260	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1262	ND (0.06)		8082A		1	07/25/23 20:08		DG32409
Aroclor 1268	ND (0.06)		8082A		1	07/25/23 20:08		DG32409

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
<i>Surrogate: Decachlorobiphenyl</i>	88 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	79 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	85 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.2)		8100M		1	07/29/23 0:26		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		80 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/28/23 19:09	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.12)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2-Chloronaphthalene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2-Chlorophenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2-Methylnaphthalene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2-Methylphenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2-Nitroaniline	ND (0.560)		8270D		1	07/28/23 19:09	D3G0506	DG32454
2-Nitrophenol	ND (0.560)		8270D		1	07/28/23 19:09	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
3+4-Methylphenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
3-Nitroaniline	ND (0.560)		8270D		1	07/28/23 19:09	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.12)		8270D		1	07/28/23 19:09	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
4-Chloroaniline	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
4-Nitroaniline	ND (0.560)		8270D		1	07/28/23 19:09	D3G0506	DG32454
4-Nitrophenol	ND (1.12)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Acenaphthene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Acenaphthylene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Acetophenone	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Anthracene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Azobenzene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Benzo(a)anthracene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Benzo(a)pyrene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Benzoic Acid	ND (2.80)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Benzyl Alcohol	ND (0.560)		8270D		1	07/28/23 19:09	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Butylbenzylphthalate	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Carbazole	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Chrysene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Dibenzofuran	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Diethylphthalate	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Dimethylphthalate	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Di-n-butylphthalate	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Di-n-octylphthalate	ND (0.560)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Fluoranthene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Fluorene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Hexachlorobenzene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Hexachlorobutadiene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.560)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Hexachloroethane	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Isophorone	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Naphthalene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-303B
 Date Sampled: 07/21/23 12:40
 Percent Solids: 89
 Initial Volume: 20.1g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0711
 ESS Laboratory Sample ID: 23G0711-10
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Pentachlorophenol	ND (1.12)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Phenanthrene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Phenol	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Pyrene	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454
Pyridine	ND (0.280)		8270D		1	07/28/23 19:09	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	92 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	95 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	90 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	96 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	87 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	98 %		30-130
<i>Surrogate: Phenol-d6</i>	94 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	91 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40
Percent Solids: 89

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 235 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	6.94 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.1 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303B
Date Sampled: 07/21/23 12:40

ESS Laboratory Work Order: 23G0711
ESS Laboratory Sample ID: 23G0711-10
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DG32713 - 7471B

Blank										
Mercury	ND	0.031	mg/kg wet							
LCS										
Mercury	18.9	3.19	mg/kg wet	18.20		104	80-120			
LCS Dup										
Mercury	19.5	3.00	mg/kg wet	18.20		107	80-120	3	30	

Batch DG32722 - 3050B

Blank										
Arsenic	ND	2.06	mg/kg wet							
Barium	ND	2.06	mg/kg wet							
Cadmium	ND	0.41	mg/kg wet							
Chromium	ND	0.82	mg/kg wet							
Lead	ND	4.12	mg/kg wet							
Selenium	ND	4.12	mg/kg wet							
Silver	ND	0.41	mg/kg wet							
Blank										
Selenium	ND	0.41	mg/kg wet							
LCS										
Arsenic	64.4	8.33	mg/kg wet	65.20		99	80-120			
Barium	746	8.33	mg/kg wet	626.0		119	80-120			
Cadmium	107	1.67	mg/kg wet	118.0		91	80-120			
Chromium	147	3.33	mg/kg wet	159.0		92	80-120			
Lead	211	16.7	mg/kg wet	230.0		92	80-120			
Selenium	50.3	16.7	mg/kg wet	55.70		90	80-120			
LCS										
Silver	69.2	1.59	mg/kg wet	72.00		96	75-113			
LCS										
Selenium	61.4	8.33	mg/kg wet	55.70		110	80-120			
LCS Dup										
Arsenic	61.3	8.06	mg/kg wet	65.20		94	80-120	5	30	
Barium	537	8.06	mg/kg wet	626.0		86	80-120	33	30	D+
Cadmium	103	1.61	mg/kg wet	118.0		87	80-120	4	30	
Chromium	140	3.23	mg/kg wet	159.0		88	80-120	5	30	
Lead	201	16.1	mg/kg wet	230.0		87	80-120	5	20	
Selenium	48.1	16.1	mg/kg wet	55.70		86	80-120	5	30	
LCS Dup										
Silver	54.2	1.61	mg/kg wet	72.00		75	75-113	24	30	
LCS Dup										
Selenium	55.2	8.06	mg/kg wet	55.70		99	80-120	11	30	

5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
1-Chlorohexane	ND	0.0050	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0533		mg/kg wet	0.05000		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.0467		mg/kg wet	0.05000		93	70-130			
Surrogate: Dibromofluoromethane	0.0505		mg/kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	0.0466		mg/kg wet	0.05000		93	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
1,1,1-Trichloroethane	0.0570	0.0050	mg/kg wet	0.05000		114	70-130			
1,1,2,2-Tetrachloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,1,2-Trichloroethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
1,1-Dichloroethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
1,1-Dichloroethene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,1-Dichloropropene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
1,2,3-Trichlorobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,3-Trichloropropane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,4-Trichlorobenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,4-Trimethylbenzene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

1,2-Dibromo-3-Chloropropane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
1,2-Dibromoethane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichlorobenzene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
1,2-Dichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichloropropane	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
1,3,5-Trimethylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
1,3-Dichlorobenzene	0.0436	0.0050	mg/kg wet	0.05000		87	70-130			
1,3-Dichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
1,4-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,4-Dioxane	1.01	0.100	mg/kg wet	1.000		101	70-130			
1-Chlorohexane	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
2,2-Dichloropropane	0.0615	0.0050	mg/kg wet	0.05000		123	70-130			
2-Butanone	0.244	0.0500	mg/kg wet	0.2500		98	70-130			
2-Chlorotoluene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
2-Hexanone	0.236	0.0500	mg/kg wet	0.2500		94	70-130			
4-Chlorotoluene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
4-Isopropyltoluene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
4-Methyl-2-Pentanone	0.241	0.0500	mg/kg wet	0.2500		96	70-130			
Acetone	0.245	0.0500	mg/kg wet	0.2500		98	70-130			
Benzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Bromobenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Bromochloromethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Bromodichloromethane	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Bromoform	0.0579	0.0050	mg/kg wet	0.05000		116	70-130			
Bromomethane	0.0424	0.0100	mg/kg wet	0.05000		85	70-130			
Carbon Disulfide	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Carbon Tetrachloride	0.0619	0.0050	mg/kg wet	0.05000		124	70-130			
Chlorobenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Chloroethane	0.0480	0.0100	mg/kg wet	0.05000		96	70-130			
Chloroform	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Chloromethane	0.0415	0.0100	mg/kg wet	0.05000		83	70-130			
cis-1,2-Dichloroethene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
cis-1,3-Dichloropropene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Dibromochloromethane	0.0576	0.0050	mg/kg wet	0.05000		115	70-130			
Dibromomethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Dichlorodifluoromethane	0.0401	0.0100	mg/kg wet	0.05000		80	70-130			
Diethyl Ether	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Di-isopropyl ether	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Ethyl tertiary-butyl ether	0.0550	0.0050	mg/kg wet	0.05000		110	70-130			
Ethylbenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Hexachlorobutadiene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Isopropylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
Methyl tert-Butyl Ether	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Methylene Chloride	0.0478	0.0250	mg/kg wet	0.05000		96	70-130			
Naphthalene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

n-Butylbenzene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
n-Propylbenzene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
sec-Butylbenzene	0.0428	0.0050	mg/kg wet	0.05000		86	70-130			
Styrene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
tert-Butylbenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Tertiary-aryl methyl ether	0.0573	0.0050	mg/kg wet	0.05000		115	70-130			
Tetrachloroethene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrahydrofuran	0.0455	0.0200	mg/kg wet	0.05000		91	70-130			
Toluene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
trans-1,2-Dichloroethene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
trans-1,3-Dichloropropene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Trichloroethene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Trichlorofluoromethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Vinyl Acetate	0.0587	0.0050	mg/kg wet	0.05000		117	70-130			
Vinyl Chloride	0.0448	0.0100	mg/kg wet	0.05000		90	70-130			
Xylene O	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Xylene P,M	0.0939	0.0100	mg/kg wet	0.1000		94	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0468</i>		mg/kg wet	<i>0.05000</i>		<i>94</i>	<i>70-130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0492</i>		mg/kg wet	<i>0.05000</i>		<i>98</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>0.0478</i>		mg/kg wet	<i>0.05000</i>		<i>96</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0467</i>		mg/kg wet	<i>0.05000</i>		<i>93</i>	<i>70-130</i>			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0593	0.0050	mg/kg wet	0.05000		119	70-130	6	25	
1,1,1-Trichloroethane	0.0584	0.0050	mg/kg wet	0.05000		117	70-130	2	25	
1,1,2,2-Tetrachloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
1,1,2-Trichloroethane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	4	25	
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
1,1-Dichloroethene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
1,1-Dichloropropene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
1,2,3-Trichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
1,2,3-Trichloropropane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
1,2,4-Trichlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
1,2,4-Trimethylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	3	25	
1,2-Dibromo-3-Chloropropane	0.0561	0.0050	mg/kg wet	0.05000		112	70-130	0.5	25	
1,2-Dibromoethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	7	25	
1,2-Dichlorobenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
1,2-Dichloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
1,2-Dichloropropane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	5	25	
1,3,5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
1,3-Dichlorobenzene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130	3	25	
1,3-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
1,4-Dichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
1,4-Dioxane	1.08	0.100	mg/kg wet	1.000		108	70-130	6	20	
1-Chlorohexane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	6	25	
2,2-Dichloropropane	0.0631	0.0050	mg/kg wet	0.05000		126	70-130	3	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

2-Butanone	0.252	0.0500	mg/kg wet	0.2500		101	70-130	3	25	
2-Chlorotoluene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
2-Hexanone	0.248	0.0500	mg/kg wet	0.2500		99	70-130	5	25	
4-Chlorotoluene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	4	25	
4-Isopropyltoluene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
4-Methyl-2-Pentanone	0.249	0.0500	mg/kg wet	0.2500		100	70-130	3	25	
Acetone	0.251	0.0500	mg/kg wet	0.2500		100	70-130	2	25	
Benzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	4	25	
Bromobenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	4	25	
Bromochloromethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	3	25	
Bromodichloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
Bromoform	0.0592	0.0050	mg/kg wet	0.05000		118	70-130	2	25	
Bromomethane	0.0438	0.0100	mg/kg wet	0.05000		88	70-130	3	25	
Carbon Disulfide	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	3	25	
Carbon Tetrachloride	0.0638	0.0050	mg/kg wet	0.05000		128	70-130	3	25	
Chlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	5	25	
Chloroethane	0.0494	0.0100	mg/kg wet	0.05000		99	70-130	3	25	
Chloroform	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
Chloromethane	0.0436	0.0100	mg/kg wet	0.05000		87	70-130	5	25	
cis-1,2-Dichloroethene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
cis-1,3-Dichloropropene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Dibromochloromethane	0.0607	0.0050	mg/kg wet	0.05000		121	70-130	5	25	
Dibromomethane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Dichlorodifluoromethane	0.0411	0.0100	mg/kg wet	0.05000		82	70-130	2	25	
Diethyl Ether	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
Di-isopropyl ether	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
Ethyl tertiary-butyl ether	0.0577	0.0050	mg/kg wet	0.05000		115	70-130	5	25	
Ethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	6	25	
Hexachlorobutadiene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Isopropylbenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
Methyl tert-Butyl Ether	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	4	25	
Methylene Chloride	0.0494	0.0250	mg/kg wet	0.05000		99	70-130	3	25	
Naphthalene	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	2	25	
n-Butylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
n-Propylbenzene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
sec-Butylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
Styrene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	5	25	
tert-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
Tertiary-amyl methyl ether	0.0594	0.0050	mg/kg wet	0.05000		119	70-130	4	25	
Tetrachloroethene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	5	25	
Tetrahydrofuran	0.0472	0.0200	mg/kg wet	0.05000		94	70-130	4	25	
Toluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	3	25	
trans-1,2-Dichloroethene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	4	25	
trans-1,3-Dichloropropene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	3	25	
Trichloroethene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	2	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

Trichlorofluoromethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
Vinyl Acetate	0.0623	0.0050	mg/kg wet	0.05000		125	70-130	6	25	
Vinyl Chloride	0.0469	0.0100	mg/kg wet	0.05000		94	70-130	5	25	
Xylene O	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
Xylene P,M	0.0995	0.0100	mg/kg wet	0.1000		100	70-130	6	25	
Surrogate: 1,2-Dichloroethane-d4	0.0476		mg/kg wet	0.05000		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/kg wet	0.05000		100	70-130			
Surrogate: Dibromofluoromethane	0.0484		mg/kg wet	0.05000		97	70-130			
Surrogate: Toluene-d8	0.0478		mg/kg wet	0.05000		96	70-130			

Batch DG32521 - 5035

Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
1-Chlorohexane	ND	0.0050	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32521 - 5035

Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0593		mg/kg wet	0.05000		119	70-130			
Surrogate: 4-Bromofluorobenzene	0.0457		mg/kg wet	0.05000		91	70-130			
Surrogate: Dibromofluoromethane	0.0568		mg/kg wet	0.05000		114	70-130			
Surrogate: Toluene-d8	0.0466		mg/kg wet	0.05000		93	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0630	0.0050	mg/kg wet	0.05000		126	70-130			
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CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32521 - 5035

1,1,1-Trichloroethane	0.0687	0.0050	mg/kg wet	0.05000		137	70-130			B+
1,1,2,2-Tetrachloroethane	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
1,1,2-Trichloroethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130			
1,1-Dichloroethane	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
1,1-Dichloroethene	0.0560	0.0050	mg/kg wet	0.05000		112	70-130			
1,1-Dichloropropene	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
1,2,3-Trichlorobenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,3-Trichloropropane	0.0563	0.0050	mg/kg wet	0.05000		113	70-130			
1,2,4-Trichlorobenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
1,2,4-Trimethylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
1,2-Dibromo-3-Chloropropane	0.0612	0.0050	mg/kg wet	0.05000		122	70-130			
1,2-Dibromoethane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
1,2-Dichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130			
1,2-Dichloroethane	0.0538	0.0050	mg/kg wet	0.05000		108	70-130			
1,2-Dichloropropane	0.0525	0.0050	mg/kg wet	0.05000		105	70-130			
1,3,5-Trimethylbenzene	0.0510	0.0050	mg/kg wet	0.05000		102	70-130			
1,3-Dichlorobenzene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
1,3-Dichloropropane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
1,4-Dichlorobenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
1,4-Dioxane	1.24	0.100	mg/kg wet	1.000		124	70-130			
1-Chlorohexane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
2,2-Dichloropropane	0.0720	0.0050	mg/kg wet	0.05000		144	70-130			B+
2-Butanone	0.295	0.0500	mg/kg wet	0.2500		118	70-130			
2-Chlorotoluene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
2-Hexanone	0.266	0.0500	mg/kg wet	0.2500		106	70-130			
4-Chlorotoluene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
4-Isopropyltoluene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130			
4-Methyl-2-Pentanone	0.284	0.0500	mg/kg wet	0.2500		114	70-130			
Acetone	0.300	0.0500	mg/kg wet	0.2500		120	70-130			
Benzene	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
Bromobenzene	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Bromochloromethane	0.0572	0.0050	mg/kg wet	0.05000		114	70-130			
Bromodichloromethane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
Bromoform	0.0620	0.0050	mg/kg wet	0.05000		124	70-130			
Bromomethane	0.0521	0.0100	mg/kg wet	0.05000		104	70-130			
Carbon Disulfide	0.0602	0.0050	mg/kg wet	0.05000		120	70-130			
Carbon Tetrachloride	0.0749	0.0050	mg/kg wet	0.05000		150	70-130			B+
Chlorobenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Chloroethane	0.0587	0.0100	mg/kg wet	0.05000		117	70-130			
Chloroform	0.0556	0.0050	mg/kg wet	0.05000		111	70-130			
Chloromethane	0.0526	0.0100	mg/kg wet	0.05000		105	70-130			
cis-1,2-Dichloroethene	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
cis-1,3-Dichloropropene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130			
Dibromochloromethane	0.0626	0.0050	mg/kg wet	0.05000		125	70-130			
Dibromomethane	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32521 - 5035

Dichlorodifluoromethane	0.0504	0.0100	mg/kg wet	0.05000		101	70-130			
Diethyl Ether	0.0565	0.0050	mg/kg wet	0.05000		113	70-130			
Di-isopropyl ether	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
Ethyl tertiary-butyl ether	0.0623	0.0050	mg/kg wet	0.05000		125	70-130			
Ethylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Hexachlorobutadiene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Isopropylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
Methyl tert-Butyl Ether	0.0574	0.0050	mg/kg wet	0.05000		115	70-130			
Methylene Chloride	0.0550	0.0250	mg/kg wet	0.05000		110	70-130			
Naphthalene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
n-Butylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
n-Propylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130			
sec-Butylbenzene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Styrene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130			
tert-Butylbenzene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130			
Tertiary-amyl methyl ether	0.0633	0.0050	mg/kg wet	0.05000		127	70-130			
Tetrachloroethene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
Tetrahydrofuran	0.0523	0.0200	mg/kg wet	0.05000		105	70-130			
Toluene	0.0553	0.0050	mg/kg wet	0.05000		111	70-130			
trans-1,2-Dichloroethene	0.0551	0.0050	mg/kg wet	0.05000		110	70-130			
trans-1,3-Dichloropropene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130			
Trichloroethene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130			
Trichlorofluoromethane	0.0573	0.0050	mg/kg wet	0.05000		115	70-130			
Vinyl Acetate	0.0681	0.0050	mg/kg wet	0.05000		136	70-130			B+
Vinyl Chloride	0.0571	0.0100	mg/kg wet	0.05000		114	70-130			
Xylene O	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
Xylene P,M	0.107	0.0100	mg/kg wet	0.1000		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0512		mg/kg wet	0.05000		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.0493		mg/kg wet	0.05000		99	70-130			
Surrogate: Dibromofluoromethane	0.0526		mg/kg wet	0.05000		105	70-130			
Surrogate: Toluene-d8	0.0466		mg/kg wet	0.05000		93	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0624	0.0050	mg/kg wet	0.05000		125	70-130	0.9	25	
1,1,1-Trichloroethane	0.0648	0.0050	mg/kg wet	0.05000		130	70-130	6	25	
1,1,2,2-Tetrachloroethane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
1,1,2-Trichloroethane	0.0537	0.0050	mg/kg wet	0.05000		107	70-130	2	25	
1,1-Dichloroethane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	4	25	
1,1-Dichloroethene	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	5	25	
1,1-Dichloropropene	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	5	25	
1,2,3-Trichlorobenzene	0.0492	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
1,2,3-Trichloropropane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130	3	25	
1,2,4-Trichlorobenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	0.3	25	
1,2,4-Trimethylbenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
1,2-Dibromo-3-Chloropropane	0.0581	0.0050	mg/kg wet	0.05000		116	70-130	5	25	
1,2-Dibromoethane	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	1	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32521 - 5035

1,2-Dichlorobenzene	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	0.3	25	
1,2-Dichloroethane	0.0520	0.0050	mg/kg wet	0.05000		104	70-130	4	25	
1,2-Dichloropropane	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	2	25	
1,3,5-Trimethylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	2	25	
1,3-Dichlorobenzene	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	1	25	
1,3-Dichloropropane	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	0.5	25	
1,4-Dichlorobenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	1	25	
1,4-Dioxane	1.12	0.100	mg/kg wet	1.000		112	70-130	10	20	
1-Chlorohexane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	3	25	
2,2-Dichloropropane	0.0694	0.0050	mg/kg wet	0.05000		139	70-130	4	25	B+
2-Butanone	0.280	0.0500	mg/kg wet	0.2500		112	70-130	5	25	
2-Chlorotoluene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
2-Hexanone	0.255	0.0500	mg/kg wet	0.2500		102	70-130	4	25	
4-Chlorotoluene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
4-Isopropyltoluene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
4-Methyl-2-Pentanone	0.269	0.0500	mg/kg wet	0.2500		108	70-130	5	25	
Acetone	0.274	0.0500	mg/kg wet	0.2500		110	70-130	9	25	
Benzene	0.0537	0.0050	mg/kg wet	0.05000		107	70-130	4	25	
Bromobenzene	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	0.7	25	
Bromochloromethane	0.0557	0.0050	mg/kg wet	0.05000		111	70-130	3	25	
Bromodichloromethane	0.0549	0.0050	mg/kg wet	0.05000		110	70-130	2	25	
Bromoform	0.0618	0.0050	mg/kg wet	0.05000		124	70-130	0.3	25	
Bromomethane	0.0500	0.0100	mg/kg wet	0.05000		100	70-130	4	25	
Carbon Disulfide	0.0567	0.0050	mg/kg wet	0.05000		113	70-130	6	25	
Carbon Tetrachloride	0.0710	0.0050	mg/kg wet	0.05000		142	70-130	5	25	B+
Chlorobenzene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	0.4	25	
Chloroethane	0.0557	0.0100	mg/kg wet	0.05000		111	70-130	5	25	
Chloroform	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	3	25	
Chloromethane	0.0505	0.0100	mg/kg wet	0.05000		101	70-130	4	25	
cis-1,2-Dichloroethene	0.0546	0.0050	mg/kg wet	0.05000		109	70-130	4	25	
cis-1,3-Dichloropropene	0.0537	0.0050	mg/kg wet	0.05000		107	70-130	0.8	25	
Dibromochloromethane	0.0628	0.0050	mg/kg wet	0.05000		126	70-130	0.3	25	
Dibromomethane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	2	25	
Dichlorodifluoromethane	0.0463	0.0100	mg/kg wet	0.05000		93	70-130	8	25	
Diethyl Ether	0.0564	0.0050	mg/kg wet	0.05000		113	70-130	0.2	25	
Di-isopropyl ether	0.0538	0.0050	mg/kg wet	0.05000		108	70-130	2	25	
Ethyl tertiary-butyl ether	0.0620	0.0050	mg/kg wet	0.05000		124	70-130	0.4	25	
Ethylbenzene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	1	25	
Hexachlorobutadiene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	4	25	
Isopropylbenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	2	25	
Methyl tert-Butyl Ether	0.0571	0.0050	mg/kg wet	0.05000		114	70-130	0.5	25	
Methylene Chloride	0.0537	0.0250	mg/kg wet	0.05000		107	70-130	2	25	
Naphthalene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	0.8	25	
n-Butylbenzene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
n-Propylbenzene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	3	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32521 - 5035

sec-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
Styrene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130	0.5	25	
tert-Butylbenzene	0.0499	0.0050	mg/kg wet	0.05000		100	70-130	3	25	
Tertiary-amyl methyl ether	0.0631	0.0050	mg/kg wet	0.05000		126	70-130	0.3	25	
Tetrachloroethene	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	3	25	
Tetrahydrofuran	0.0500	0.0200	mg/kg wet	0.05000		100	70-130	4	25	
Toluene	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	4	25	
trans-1,2-Dichloroethene	0.0528	0.0050	mg/kg wet	0.05000		106	70-130	4	25	
trans-1,3-Dichloropropene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	0.2	25	
Trichloroethene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
Trichlorofluoromethane	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	6	25	
Vinyl Acetate	0.0672	0.0050	mg/kg wet	0.05000		134	70-130	1	25	B+
Vinyl Chloride	0.0541	0.0100	mg/kg wet	0.05000		108	70-130	5	25	
Xylene O	0.0525	0.0050	mg/kg wet	0.05000		105	70-130	0.6	25	
Xylene P,M	0.105	0.0100	mg/kg wet	0.1000		105	70-130	2	25	
Surrogate: 1,2-Dichloroethane-d4	0.0500		mg/kg wet	0.05000		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0498		mg/kg wet	0.05000		100	70-130			
Surrogate: Dibromofluoromethane	0.0519		mg/kg wet	0.05000		104	70-130			
Surrogate: Toluene-d8	0.0479		mg/kg wet	0.05000		96	70-130			

8081B Organochlorine Pesticides

Batch DG32412 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32412 - 3546

Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Aldehyde	ND	0.0025	mg/kg wet							
Endrin Aldehyde [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0132		mg/kg wet	0.01250		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0125		mg/kg wet	0.01250		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0132		mg/kg wet	0.01250		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0137		mg/kg wet	0.01250		109	30-150			

LCS

4,4'-DDD	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
4,4'-DDD [2C]	0.0139	0.0025	mg/kg wet	0.01250		111	40-140			
4,4'-DDE	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
4,4'-DDE [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
4,4'-DDT	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
4,4'-DDT [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Aldrin	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Aldrin [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
alpha-BHC	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
alpha-BHC [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
alpha-Chlordane	0.0117	0.0025	mg/kg wet	0.01250		94	40-140			
alpha-Chlordane [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
beta-BHC	0.0116	0.0025	mg/kg wet	0.01250		92	40-140			
beta-BHC [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
delta-BHC	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
delta-BHC [2C]	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
Dieldrin	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Dieldrin [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140			
Endosulfan I	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32412 - 3546

Endosulfan I [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan II	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan II [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endosulfan Sulfate	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Endosulfan Sulfate [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Endrin [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Endrin Aldehyde	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endrin Aldehyde [2C]	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Endrin Ketone	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
Endrin Ketone [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
gamma-BHC (Lindane)	0.0123	0.0015	mg/kg wet	0.01250		98	40-140			
gamma-BHC (Lindane) [2C]	0.0131	0.0015	mg/kg wet	0.01250		105	40-140			
gamma-Chlordane	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
gamma-Chlordane [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
Heptachlor	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Heptachlor [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Heptachlor Epoxide	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Heptachlor Epoxide [2C]	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
Hexachlorobenzene	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Hexachlorobenzene [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Methoxychlor	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Methoxychlor [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			

Surrogate: Decachlorobiphenyl	0.0132		mg/kg wet	0.01250		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0126		mg/kg wet	0.01250		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0138		mg/kg wet	0.01250		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0143		mg/kg wet	0.01250		114	30-150			

LCS Dup

4,4'-DDD	0.0143	0.0025	mg/kg wet	0.01250		114	40-140	7	30	
4,4'-DDD [2C]	0.0148	0.0025	mg/kg wet	0.01250		118	40-140	6	30	
4,4'-DDE	0.0139	0.0025	mg/kg wet	0.01250		111	40-140	6	30	
4,4'-DDE [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	5	30	
4,4'-DDT	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	7	30	
4,4'-DDT [2C]	0.0141	0.0025	mg/kg wet	0.01250		113	40-140	8	30	
Aldrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	0.8	30	
Aldrin [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	1	30	
alpha-BHC	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	2	30	
alpha-BHC [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140	0.6	30	
alpha-Chlordane	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	4	30	
alpha-Chlordane [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	4	30	
beta-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	2	30	
beta-BHC [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	0.02	30	
delta-BHC	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	4	30	
delta-BHC [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	5	30	



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32412 - 3546

Dieldrin	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	5	30	
Dieldrin [2C]	0.0144	0.0025	mg/kg wet	0.01250		116	40-140	5	30	
Endosulfan I	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	3	30	
Endosulfan I [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140	5	30	
Endosulfan II	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	6	30	
Endosulfan II [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	6	30	
Endosulfan Sulfate	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	6	30	
Endosulfan Sulfate [2C]	0.0134	0.0025	mg/kg wet	0.01250		108	40-140	7	30	
Endrin	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	5	30	
Endrin [2C]	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	6	30	
Endrin Aldehyde	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	4	30	
Endrin Aldehyde [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	5	30	
Endrin Ketone	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	6	30	
Endrin Ketone [2C]	0.0138	0.0025	mg/kg wet	0.01250		111	40-140	6	30	
gamma-BHC (Lindane)	0.0125	0.0015	mg/kg wet	0.01250		100	40-140	2	30	
gamma-BHC (Lindane) [2C]	0.0133	0.0015	mg/kg wet	0.01250		106	40-140	2	30	
gamma-Chlordane	0.0142	0.0025	mg/kg wet	0.01250		113	40-140	4	30	
gamma-Chlordane [2C]	0.0146	0.0025	mg/kg wet	0.01250		117	40-140	4	30	
Heptachlor	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	0.5	30	
Heptachlor [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	2	30	
Heptachlor Epoxide	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	3	30	
Heptachlor Epoxide [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	3	30	
Hexachlorobenzene	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	0.5	30	
Hexachlorobenzene [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	0.4	30	
Methoxychlor	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	6	30	
Methoxychlor [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	7	30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0135</i>		mg/kg wet	<i>0.01250</i>		<i>108</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0129</i>		mg/kg wet	<i>0.01250</i>		<i>103</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0131</i>		mg/kg wet	<i>0.01250</i>		<i>105</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0135</i>		mg/kg wet	<i>0.01250</i>		<i>108</i>	<i>30-150</i>			

8082A Polychlorinated Biphenyls (PCB)

Batch DG32409 - 3540C

Blank										
Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							



CERTIFICATE OF ANALYSIS

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Client Project ID: Stockpile Characterization

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Quality Control Data

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8082A Polychlorinated Biphenyls (PCB)

Batch DG32409 - 3540C

Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							
Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0206		mg/kg wet	0.02500		82	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0200		mg/kg wet	0.02500		80	30-150			
Surrogate: Tetrachloro-m-xylene	0.0186		mg/kg wet	0.02500		75	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0206		mg/kg wet	0.02500		82	30-150			

LCS

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		87	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		88	40-140			

Surrogate: Decachlorobiphenyl	0.0209		mg/kg wet	0.02500		84	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0205		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene	0.0204		mg/kg wet	0.02500		82	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0213		mg/kg wet	0.02500		85	30-150			

LCS Dup

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		84	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		83	40-140	4	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		82	40-140	6	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		82	40-140	6	30	

Surrogate: Decachlorobiphenyl	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene	0.0194		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0201		mg/kg wet	0.02500		80	30-150			

8100M Total Petroleum Hydrocarbons

Batch DG32147 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DG32147 - 3546

Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							

<i>Surrogate: O-Terphenyl</i>	<i>4.00</i>		mg/kg wet	<i>5.000</i>		<i>80</i>	<i>40-140</i>			
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LCS

Decane (C10)	1.8	0.2	mg/kg wet	2.500		74	40-140			
Docosane (C22)	1.9	0.2	mg/kg wet	2.500		78	40-140			
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Eicosane (C20)	2.0	0.2	mg/kg wet	2.500		80	40-140			
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140			
Hexadecane (C16)	1.9	0.2	mg/kg wet	2.500		78	40-140			
Nonadecane (C19)	2.2	0.2	mg/kg wet	2.500		89	40-140			
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		66	30-140			
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Octadecane (C18)	1.9	0.2	mg/kg wet	2.500		78	40-140			
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Tetradecane (C14)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Total Petroleum Hydrocarbons	28.1	37.5	mg/kg wet	35.00		80	40-140			
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		86	40-140			

<i>Surrogate: O-Terphenyl</i>	<i>3.92</i>		mg/kg wet	<i>5.000</i>		<i>78</i>	<i>40-140</i>			
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LCS Dup

Decane (C10)	1.8	0.2	mg/kg wet	2.500		72	40-140	1	25	
Docosane (C22)	1.9	0.2	mg/kg wet	2.500		77	40-140	0.8	25	
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		75	40-140	0.6	25	
Eicosane (C20)	1.9	0.2	mg/kg wet	2.500		77	40-140	3	25	
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140	0.1	25	
Hexadecane (C16)	1.9	0.2	mg/kg wet	2.500		78	40-140	0.2	25	
Nonadecane (C19)	2.2	0.2	mg/kg wet	2.500		89	40-140	0.1	25	
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		64	30-140	3	25	
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		83	40-140	0.7	25	
Octadecane (C18)	1.9	0.2	mg/kg wet	2.500		78	40-140	0.2	25	
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		76	40-140	1	25	
Tetradecane (C14)	1.9	0.2	mg/kg wet	2.500		76	40-140	0.7	25	
Total Petroleum Hydrocarbons	28.0	37.5	mg/kg wet	35.00		80	40-140	0.5	25	
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		86	40-140	0.01	25	

<i>Surrogate: O-Terphenyl</i>	<i>3.95</i>		mg/kg wet	<i>5.000</i>		<i>79</i>	<i>40-140</i>			
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8270D Semi-Volatile Organic Compounds

Batch DG32146 - 3546



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32146 - 3546

Blank										
1,1-Biphenyl	ND	0.025	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							
1,4-Dichlorobenzene	ND	0.250	mg/kg wet							
2,3,4,6-Tetrachlorophenol	ND	0.250	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet							
2,4-Dichlorophenol	ND	0.250	mg/kg wet							
2,4-Dimethylphenol	ND	0.250	mg/kg wet							
2,4-Dinitrophenol	ND	1.00	mg/kg wet							
2,4-Dinitrotoluene	ND	0.250	mg/kg wet							
2,6-Dinitrotoluene	ND	0.250	mg/kg wet							
2-Chloronaphthalene	ND	0.250	mg/kg wet							
2-Chlorophenol	ND	0.250	mg/kg wet							
2-Methylnaphthalene	ND	0.250	mg/kg wet							
2-Methylphenol	ND	0.250	mg/kg wet							
2-Nitroaniline	ND	0.500	mg/kg wet							
2-Nitrophenol	ND	0.500	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet							
3+4-Methylphenol	ND	0.250	mg/kg wet							
3-Nitroaniline	ND	0.500	mg/kg wet							
4,6-Dinitro-2-Methylphenol	ND	1.00	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet							
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet							
4-Chloroaniline	ND	0.250	mg/kg wet							
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet							
4-Nitroaniline	ND	0.500	mg/kg wet							
4-Nitrophenol	ND	1.00	mg/kg wet							
Acenaphthene	ND	0.250	mg/kg wet							
Acenaphthylene	ND	0.250	mg/kg wet							
Acetophenone	ND	0.250	mg/kg wet							
Aniline	ND	0.250	mg/kg wet							
Anthracene	ND	0.250	mg/kg wet							
Azobenzene	ND	0.250	mg/kg wet							
Benzo(a)anthracene	ND	0.250	mg/kg wet							
Benzo(a)pyrene	ND	0.250	mg/kg wet							
Benzo(b)fluoranthene	ND	0.250	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet							
Benzo(k)fluoranthene	ND	0.250	mg/kg wet							
Benzoic Acid	ND	2.50	mg/kg wet							
Benzyl Alcohol	ND	0.500	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet							



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8270D Semi-Volatile Organic Compounds

Batch DG32146 - 3546

bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet							
Butylbenzylphthalate	ND	0.250	mg/kg wet							
Carbazole	ND	0.250	mg/kg wet							
Chrysene	ND	0.250	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.250	mg/kg wet							
Dibenzofuran	ND	0.250	mg/kg wet							
Diethylphthalate	ND	0.250	mg/kg wet							
Dimethylphthalate	ND	0.250	mg/kg wet							
Di-n-butylphthalate	ND	0.250	mg/kg wet							
Di-n-octylphthalate	ND	0.500	mg/kg wet							
Fluoranthene	ND	0.250	mg/kg wet							
Fluorene	ND	0.250	mg/kg wet							
Hexachlorobenzene	ND	0.250	mg/kg wet							
Hexachlorobutadiene	ND	0.250	mg/kg wet							
Hexachlorocyclopentadiene	ND	0.500	mg/kg wet							
Hexachloroethane	ND	0.250	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet							
Isophorone	ND	0.250	mg/kg wet							
Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet							
N-nitrosodiphenylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	1.00	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Pyridine	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.41		mg/kg wet	2.500		96	30-130			
Surrogate: 2,4,6-Tribromophenol	3.61		mg/kg wet	3.750		96	30-130			
Surrogate: 2-Chlorophenol-d4	3.53		mg/kg wet	3.750		94	30-130			
Surrogate: 2-Fluorobiphenyl	2.50		mg/kg wet	2.500		100	30-130			
Surrogate: 2-Fluorophenol	3.24		mg/kg wet	3.750		87	30-130			
Surrogate: Nitrobenzene-d5	2.52		mg/kg wet	2.500		101	30-130			
Surrogate: Phenol-d6	3.65		mg/kg wet	3.750		97	30-130			
Surrogate: p-Terphenyl-d14	2.68		mg/kg wet	2.500		107	30-130			

LCS

1,1-Biphenyl	2.48	0.025	mg/kg wet	2.500		99	40-140			
1,2,4-Trichlorobenzene	2.04	0.250	mg/kg wet	2.500		81	40-140			
1,2-Dichlorobenzene	2.28	0.250	mg/kg wet	2.500		91	40-140			
1,3-Dichlorobenzene	2.17	0.250	mg/kg wet	2.500		87	40-140			
1,4-Dichlorobenzene	2.32	0.250	mg/kg wet	2.500		93	40-140			
2,3,4,6-Tetrachlorophenol	2.34	0.250	mg/kg wet	2.500		94	30-130			
2,4,5-Trichlorophenol	2.41	0.250	mg/kg wet	2.500		96	30-130			



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8270D Semi-Volatile Organic Compounds

Batch DG32146 - 3546

2,4,6-Trichlorophenol	2.17	0.250	mg/kg wet	2.500		87	30-130			
2,4-Dichlorophenol	2.10	0.250	mg/kg wet	2.500		84	30-130			
2,4-Dimethylphenol	2.13	0.250	mg/kg wet	2.500		85	30-130			
2,4-Dinitrophenol	2.24	1.00	mg/kg wet	2.500		90	30-130			
2,4-Dinitrotoluene	2.55	0.250	mg/kg wet	2.500		102	40-140			
2,6-Dinitrotoluene	2.46	0.250	mg/kg wet	2.500		98	40-140			
2-Chloronaphthalene	2.55	0.250	mg/kg wet	2.500		102	40-140			
2-Chlorophenol	2.22	0.250	mg/kg wet	2.500		89	30-130			
2-Methylnaphthalene	2.12	0.250	mg/kg wet	2.500		85	40-140			
2-Methylphenol	2.24	0.250	mg/kg wet	2.500		90	30-130			
2-Nitroaniline	2.81	0.500	mg/kg wet	2.500		113	40-140			
2-Nitrophenol	2.07	0.500	mg/kg wet	2.500		83	30-130			
3,3'-Dichlorobenzidine	2.31	0.250	mg/kg wet	2.500		92	40-140			
3+4-Methylphenol	4.55	0.250	mg/kg wet	5.000		91	30-130			
3-Nitroaniline	2.44	0.500	mg/kg wet	2.500		98	40-140			
4,6-Dinitro-2-Methylphenol	2.84	1.00	mg/kg wet	2.500		114	30-130			
4-Bromophenyl-phenylether	2.63	0.250	mg/kg wet	2.500		105	40-140			
4-Chloro-3-Methylphenol	2.22	0.250	mg/kg wet	2.500		89	30-130			
4-Chloroaniline	1.89	0.250	mg/kg wet	2.500		76	40-140			
4-Chloro-phenyl-phenyl ether	2.50	0.250	mg/kg wet	2.500		100	40-140			
4-Nitroaniline	2.33	0.500	mg/kg wet	2.500		93	40-140			
4-Nitrophenol	1.80	1.00	mg/kg wet	2.500		72	30-130			
Acenaphthene	2.45	0.250	mg/kg wet	2.500		98	40-140			
Acenaphthylene	2.58	0.250	mg/kg wet	2.500		103	40-140			
Acetophenone	2.30	0.250	mg/kg wet	2.500		92	40-140			
Aniline	1.55	0.250	mg/kg wet	2.500		62	40-140			
Anthracene	2.56	0.250	mg/kg wet	2.500		102	40-140			
Azobenzene	2.48	0.250	mg/kg wet	2.500		99	40-140			
Benzo(a)anthracene	2.42	0.250	mg/kg wet	2.500		97	40-140			
Benzo(a)pyrene	2.70	0.250	mg/kg wet	2.500		108	40-140			
Benzo(b)fluoranthene	2.37	0.250	mg/kg wet	2.500		95	40-140			
Benzo(g,h,i)perylene	2.56	0.250	mg/kg wet	2.500		102	40-140			
Benzo(k)fluoranthene	2.45	0.250	mg/kg wet	2.500		98	40-140			
Benzoic Acid	1.30	2.50	mg/kg wet	2.500		52	40-140			
Benzyl Alcohol	1.82	0.500	mg/kg wet	2.500		73	40-140			
bis(2-Chloroethoxy)methane	1.97	0.250	mg/kg wet	2.500		79	40-140			
bis(2-Chloroethyl)ether	2.28	0.250	mg/kg wet	2.500		91	40-140			
bis(2-chloroisopropyl)Ether	2.04	0.250	mg/kg wet	2.500		82	40-140			
bis(2-Ethylhexyl)phthalate	2.38	0.250	mg/kg wet	2.500		95	40-140			
Butylbenzylphthalate	2.36	0.250	mg/kg wet	2.500		94	40-140			
Carbazole	2.40	0.250	mg/kg wet	2.500		96	40-140			
Chrysene	2.50	0.250	mg/kg wet	2.500		100	40-140			
Dibenzo(a,h)Anthracene	2.66	0.250	mg/kg wet	2.500		106	40-140			
Dibenzofuran	2.50	0.250	mg/kg wet	2.500		100	40-140			
Diethylphthalate	2.53	0.250	mg/kg wet	2.500		101	40-140			



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ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32146 - 3546

Dimethylphthalate	2.53	0.250	mg/kg wet	2.500		101	40-140			
Di-n-butylphthalate	2.67	0.250	mg/kg wet	2.500		107	40-140			
Di-n-octylphthalate	2.21	0.500	mg/kg wet	2.500		89	40-140			
Fluoranthene	2.67	0.250	mg/kg wet	2.500		107	40-140			
Fluorene	2.54	0.250	mg/kg wet	2.500		102	40-140			
Hexachlorobenzene	2.60	0.250	mg/kg wet	2.500		104	40-140			
Hexachlorobutadiene	2.14	0.250	mg/kg wet	2.500		86	40-140			
Hexachlorocyclopentadiene	2.27	0.500	mg/kg wet	2.500		91	40-140			
Hexachloroethane	2.22	0.250	mg/kg wet	2.500		89	40-140			
Indeno(1,2,3-cd)Pyrene	2.43	0.250	mg/kg wet	2.500		97	40-140			
Isophorone	2.04	0.250	mg/kg wet	2.500		82	40-140			
Naphthalene	2.05	0.250	mg/kg wet	2.500		82	40-140			
Nitrobenzene	2.09	0.250	mg/kg wet	2.500		84	40-140			
N-Nitrosodimethylamine	1.74	0.250	mg/kg wet	2.500		69	40-140			
N-Nitroso-Di-n-Propylamine	2.26	0.250	mg/kg wet	2.500		90	40-140			
N-nitrosodiphenylamine	2.07	0.250	mg/kg wet	2.500		83	40-140			
Pentachlorophenol	1.49	1.00	mg/kg wet	2.500		60	30-130			
Phenanthrene	2.41	0.250	mg/kg wet	2.500		96	40-140			
Phenol	2.50	0.250	mg/kg wet	2.500		100	30-130			
Pyrene	2.37	0.250	mg/kg wet	2.500		95	40-140			
Pyridine	2.31	0.250	mg/kg wet	2.500		92	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.34		mg/kg wet	2.500		94	30-130			
Surrogate: 2,4,6-Tribromophenol	4.09		mg/kg wet	3.750		109	30-130			
Surrogate: 2-Chlorophenol-d4	3.49		mg/kg wet	3.750		93	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/kg wet	2.500		106	30-130			
Surrogate: 2-Fluorophenol	3.37		mg/kg wet	3.750		90	30-130			
Surrogate: Nitrobenzene-d5	2.27		mg/kg wet	2.500		91	30-130			
Surrogate: Phenol-d6	3.60		mg/kg wet	3.750		96	30-130			
Surrogate: p-Terphenyl-d14	2.45		mg/kg wet	2.500		98	30-130			

LCS Dup

1,1-Biphenyl	2.50	0.025	mg/kg wet	2.500		100	40-140	1	30	
1,2,4-Trichlorobenzene	2.12	0.250	mg/kg wet	2.500		85	40-140	4	30	
1,2-Dichlorobenzene	2.31	0.250	mg/kg wet	2.500		92	40-140	1	30	
1,3-Dichlorobenzene	2.25	0.250	mg/kg wet	2.500		90	40-140	4	30	
1,4-Dichlorobenzene	2.37	0.250	mg/kg wet	2.500		95	40-140	2	30	
2,3,4,6-Tetrachlorophenol	2.47	0.250	mg/kg wet	2.500		99	30-130	6	30	
2,4,5-Trichlorophenol	2.51	0.250	mg/kg wet	2.500		101	30-130	4	30	
2,4,6-Trichlorophenol	2.30	0.250	mg/kg wet	2.500		92	30-130	6	30	
2,4-Dichlorophenol	2.19	0.250	mg/kg wet	2.500		88	30-130	4	30	
2,4-Dimethylphenol	2.25	0.250	mg/kg wet	2.500		90	30-130	5	30	
2,4-Dinitrophenol	2.22	1.00	mg/kg wet	2.500		89	30-130	1	30	
2,4-Dinitrotoluene	2.56	0.250	mg/kg wet	2.500		102	40-140	0.5	30	
2,6-Dinitrotoluene	2.55	0.250	mg/kg wet	2.500		102	40-140	4	30	
2-Chloronaphthalene	2.54	0.250	mg/kg wet	2.500		102	40-140	0.5	30	
2-Chlorophenol	2.29	0.250	mg/kg wet	2.500		92	30-130	3	30	



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32146 - 3546

2-Methylnaphthalene	2.18	0.250	mg/kg wet	2.500		87	40-140	3	30	
2-Methylphenol	2.35	0.250	mg/kg wet	2.500		94	30-130	5	30	
2-Nitroaniline	2.90	0.500	mg/kg wet	2.500		116	40-140	3	30	
2-Nitrophenol	2.16	0.500	mg/kg wet	2.500		86	30-130	4	30	
3,3'-Dichlorobenzidine	2.37	0.250	mg/kg wet	2.500		95	40-140	3	30	
3+4-Methylphenol	4.83	0.250	mg/kg wet	5.000		97	30-130	6	30	
3-Nitroaniline	2.52	0.500	mg/kg wet	2.500		101	40-140	3	30	
4,6-Dinitro-2-Methylphenol	3.00	1.00	mg/kg wet	2.500		120	30-130	6	30	
4-Bromophenyl-phenylether	2.85	0.250	mg/kg wet	2.500		114	40-140	8	30	
4-Chloro-3-Methylphenol	2.28	0.250	mg/kg wet	2.500		91	30-130	3	30	
4-Chloroaniline	1.96	0.250	mg/kg wet	2.500		78	40-140	3	30	
4-Chloro-phenyl-phenyl ether	2.57	0.250	mg/kg wet	2.500		103	40-140	3	30	
4-Nitroaniline	2.39	0.500	mg/kg wet	2.500		96	40-140	3	30	
4-Nitrophenol	1.89	1.00	mg/kg wet	2.500		75	30-130	5	30	
Acenaphthene	2.47	0.250	mg/kg wet	2.500		99	40-140	0.7	30	
Acenaphthylene	2.61	0.250	mg/kg wet	2.500		104	40-140	1	30	
Acetophenone	2.43	0.250	mg/kg wet	2.500		97	40-140	5	30	
Aniline	1.63	0.250	mg/kg wet	2.500		65	40-140	5	30	
Anthracene	2.63	0.250	mg/kg wet	2.500		105	40-140	3	30	
Azobenzene	2.60	0.250	mg/kg wet	2.500		104	40-140	5	30	
Benzo(a)anthracene	2.53	0.250	mg/kg wet	2.500		101	40-140	4	30	
Benzo(a)pyrene	2.81	0.250	mg/kg wet	2.500		112	40-140	4	30	
Benzo(b)fluoranthene	2.50	0.250	mg/kg wet	2.500		100	40-140	5	30	
Benzo(g,h,i)perylene	2.56	0.250	mg/kg wet	2.500		102	40-140	0.02	30	
Benzo(k)fluoranthene	2.55	0.250	mg/kg wet	2.500		102	40-140	4	30	
Benzoic Acid	1.48	2.50	mg/kg wet	2.500		59	40-140	13	30	
Benzyl Alcohol	1.93	0.500	mg/kg wet	2.500		77	40-140	6	30	
bis(2-Chloroethoxy)methane	2.09	0.250	mg/kg wet	2.500		83	40-140	6	30	
bis(2-Chloroethyl)ether	2.37	0.250	mg/kg wet	2.500		95	40-140	4	30	
bis(2-chloroisopropyl)Ether	2.16	0.250	mg/kg wet	2.500		86	40-140	5	30	
bis(2-Ethylhexyl)phthalate	2.62	0.250	mg/kg wet	2.500		105	40-140	9	30	
Butylbenzylphthalate	2.61	0.250	mg/kg wet	2.500		104	40-140	10	30	
Carbazole	2.49	0.250	mg/kg wet	2.500		100	40-140	3	30	
Chrysene	2.60	0.250	mg/kg wet	2.500		104	40-140	4	30	
Dibenzo(a,h)Anthracene	2.68	0.250	mg/kg wet	2.500		107	40-140	0.9	30	
Dibenzofuran	2.54	0.250	mg/kg wet	2.500		102	40-140	1	30	
Diethylphthalate	2.59	0.250	mg/kg wet	2.500		104	40-140	3	30	
Dimethylphthalate	2.59	0.250	mg/kg wet	2.500		104	40-140	3	30	
Di-n-butylphthalate	2.78	0.250	mg/kg wet	2.500		111	40-140	4	30	
Di-n-octylphthalate	2.54	0.500	mg/kg wet	2.500		102	40-140	14	30	
Fluoranthene	2.69	0.250	mg/kg wet	2.500		107	40-140	0.6	30	
Fluorene	2.56	0.250	mg/kg wet	2.500		102	40-140	0.7	30	
Hexachlorobenzene	2.71	0.250	mg/kg wet	2.500		109	40-140	4	30	
Hexachlorobutadiene	2.25	0.250	mg/kg wet	2.500		90	40-140	5	30	
Hexachlorocyclopentadiene	2.46	0.500	mg/kg wet	2.500		98	40-140	8	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32146 - 3546

Hexachloroethane	2.29	0.250	mg/kg wet	2.500		92	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	2.46	0.250	mg/kg wet	2.500		98	40-140	1	30	
Isophorone	2.14	0.250	mg/kg wet	2.500		86	40-140	5	30	
Naphthalene	2.08	0.250	mg/kg wet	2.500		83	40-140	2	30	
Nitrobenzene	2.16	0.250	mg/kg wet	2.500		86	40-140	3	30	
N-Nitrosodimethylamine	1.83	0.250	mg/kg wet	2.500		73	40-140	5	30	
N-Nitroso-Di-n-Propylamine	2.38	0.250	mg/kg wet	2.500		95	40-140	5	30	
N-nitrosodiphenylamine	2.14	0.250	mg/kg wet	2.500		86	40-140	3	30	
Pentachlorophenol	1.69	1.00	mg/kg wet	2.500		68	30-130	13	30	
Phenanthrene	2.46	0.250	mg/kg wet	2.500		99	40-140	2	30	
Phenol	2.62	0.250	mg/kg wet	2.500		105	30-130	5	30	
Pyrene	2.59	0.250	mg/kg wet	2.500		104	40-140	9	30	
Pyridine	2.44	0.250	mg/kg wet	2.500		98	40-140	5	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.33		mg/kg wet	2.500		93	30-130			
Surrogate: 2,4,6-Tribromophenol	4.04		mg/kg wet	3.750		108	30-130			
Surrogate: 2-Chlorophenol-d4	3.50		mg/kg wet	3.750		93	30-130			
Surrogate: 2-Fluorobiphenyl	2.62		mg/kg wet	2.500		105	30-130			
Surrogate: 2-Fluorophenol	3.48		mg/kg wet	3.750		93	30-130			
Surrogate: Nitrobenzene-d5	2.25		mg/kg wet	2.500		90	30-130			
Surrogate: Phenol-d6	3.63		mg/kg wet	3.750		97	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/kg wet	2.500		104	30-130			

Batch DG32454 - 3546

Blank										
1,1-Biphenyl	ND	0.025	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							
1,4-Dichlorobenzene	ND	0.250	mg/kg wet							
2,3,4,6-Tetrachlorophenol	ND	0.250	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet							
2,4-Dichlorophenol	ND	0.250	mg/kg wet							
2,4-Dimethylphenol	ND	0.250	mg/kg wet							
2,4-Dinitrophenol	ND	1.00	mg/kg wet							
2,4-Dinitrotoluene	ND	0.250	mg/kg wet							
2,6-Dinitrotoluene	ND	0.250	mg/kg wet							
2-Chloronaphthalene	ND	0.250	mg/kg wet							
2-Chlorophenol	ND	0.250	mg/kg wet							
2-Methylnaphthalene	ND	0.250	mg/kg wet							
2-Methylphenol	ND	0.250	mg/kg wet							
2-Nitroaniline	ND	0.500	mg/kg wet							
2-Nitrophenol	ND	0.500	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet							
3+4-Methylphenol	ND	0.250	mg/kg wet							
3-Nitroaniline	ND	0.500	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

4,6-Dinitro-2-Methylphenol	ND	1.00	mg/kg wet
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet
4-Chloroaniline	ND	0.250	mg/kg wet
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet
4-Nitroaniline	ND	0.500	mg/kg wet
4-Nitrophenol	ND	1.00	mg/kg wet
Acenaphthene	ND	0.250	mg/kg wet
Acenaphthylene	ND	0.250	mg/kg wet
Acetophenone	ND	0.250	mg/kg wet
Aniline	ND	0.250	mg/kg wet
Anthracene	ND	0.250	mg/kg wet
Azobenzene	ND	0.250	mg/kg wet
Benzo(a)anthracene	ND	0.250	mg/kg wet
Benzo(a)pyrene	ND	0.250	mg/kg wet
Benzo(b)fluoranthene	ND	0.250	mg/kg wet
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet
Benzo(k)fluoranthene	ND	0.250	mg/kg wet
Benzoic Acid	ND	2.50	mg/kg wet
Benzyl Alcohol	ND	0.500	mg/kg wet
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet
bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet
Butylbenzylphthalate	ND	0.250	mg/kg wet
Carbazole	ND	0.250	mg/kg wet
Chrysene	ND	0.250	mg/kg wet
Dibenzo(a,h)Anthracene	ND	0.250	mg/kg wet
Dibenzofuran	ND	0.250	mg/kg wet
Diethylphthalate	ND	0.250	mg/kg wet
Dimethylphthalate	ND	0.250	mg/kg wet
Di-n-butylphthalate	ND	0.250	mg/kg wet
Di-n-octylphthalate	ND	0.500	mg/kg wet
Fluoranthene	ND	0.250	mg/kg wet
Fluorene	ND	0.250	mg/kg wet
Hexachlorobenzene	ND	0.250	mg/kg wet
Hexachlorobutadiene	ND	0.250	mg/kg wet
Hexachlorocyclopentadiene	ND	0.500	mg/kg wet
Hexachloroethane	ND	0.250	mg/kg wet
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet
Isophorone	ND	0.250	mg/kg wet
Naphthalene	ND	0.250	mg/kg wet
Nitrobenzene	ND	0.250	mg/kg wet
N-Nitrosodimethylamine	ND	0.250	mg/kg wet
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

N-nitrosodiphenylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	1.00	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Pyridine	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.55		mg/kg wet	2.500		102	30-130			
Surrogate: 2,4,6-Tribromophenol	3.90		mg/kg wet	3.750		104	30-130			
Surrogate: 2-Chlorophenol-d4	3.75		mg/kg wet	3.750		100	30-130			
Surrogate: 2-Fluorobiphenyl	2.66		mg/kg wet	2.500		106	30-130			
Surrogate: 2-Fluorophenol	3.66		mg/kg wet	3.750		98	30-130			
Surrogate: Nitrobenzene-d5	2.70		mg/kg wet	2.500		108	30-130			
Surrogate: Phenol-d6	3.92		mg/kg wet	3.750		105	30-130			
Surrogate: p-Terphenyl-d14	2.82		mg/kg wet	2.500		113	30-130			

LCS

1,1-Biphenyl	2.58	0.025	mg/kg wet	2.500		103	40-140			
1,2,4-Trichlorobenzene	2.09	0.250	mg/kg wet	2.500		84	40-140			
1,2-Dichlorobenzene	2.36	0.250	mg/kg wet	2.500		94	40-140			
1,3-Dichlorobenzene	2.24	0.250	mg/kg wet	2.500		90	40-140			
1,4-Dichlorobenzene	2.41	0.250	mg/kg wet	2.500		96	40-140			
2,3,4,6-Tetrachlorophenol	2.45	0.250	mg/kg wet	2.500		98	30-130			
2,4,5-Trichlorophenol	2.47	0.250	mg/kg wet	2.500		99	30-130			
2,4,6-Trichlorophenol	2.27	0.250	mg/kg wet	2.500		91	30-130			
2,4-Dichlorophenol	2.14	0.250	mg/kg wet	2.500		85	30-130			
2,4-Dimethylphenol	2.21	0.250	mg/kg wet	2.500		88	30-130			
2,4-Dinitrophenol	2.22	1.00	mg/kg wet	2.500		89	30-130			
2,4-Dinitrotoluene	2.58	0.250	mg/kg wet	2.500		103	40-140			
2,6-Dinitrotoluene	2.55	0.250	mg/kg wet	2.500		102	40-140			
2-Chloronaphthalene	2.58	0.250	mg/kg wet	2.500		103	40-140			
2-Chlorophenol	2.28	0.250	mg/kg wet	2.500		91	30-130			
2-Methylnaphthalene	2.18	0.250	mg/kg wet	2.500		87	40-140			
2-Methylphenol	2.28	0.250	mg/kg wet	2.500		91	30-130			
2-Nitroaniline	2.84	0.500	mg/kg wet	2.500		114	40-140			
2-Nitrophenol	2.16	0.500	mg/kg wet	2.500		86	30-130			
3,3'-Dichlorobenzidine	2.46	0.250	mg/kg wet	2.500		99	40-140			
3+4-Methylphenol	4.71	0.250	mg/kg wet	5.000		94	30-130			
3-Nitroaniline	2.47	0.500	mg/kg wet	2.500		99	40-140			
4,6-Dinitro-2-Methylphenol	2.94	1.00	mg/kg wet	2.500		118	30-130			
4-Bromophenyl-phenylether	2.87	0.250	mg/kg wet	2.500		115	40-140			
4-Chloro-3-Methylphenol	2.19	0.250	mg/kg wet	2.500		87	30-130			
4-Chloroaniline	1.90	0.250	mg/kg wet	2.500		76	40-140			
4-Chloro-phenyl-phenyl ether	2.59	0.250	mg/kg wet	2.500		103	40-140			
4-Nitroaniline	2.40	0.500	mg/kg wet	2.500		96	40-140			
4-Nitrophenol	1.57	1.00	mg/kg wet	2.500		63	30-130			
Acenaphthene	2.50	0.250	mg/kg wet	2.500		100	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

Acenaphthylene	2.67	0.250	mg/kg wet	2.500		107	40-140			
Acetophenone	2.39	0.250	mg/kg wet	2.500		96	40-140			
Aniline	1.46	0.250	mg/kg wet	2.500		58	40-140			
Anthracene	2.71	0.250	mg/kg wet	2.500		109	40-140			
Azobenzene	2.67	0.250	mg/kg wet	2.500		107	40-140			
Benzo(a)anthracene	2.59	0.250	mg/kg wet	2.500		104	40-140			
Benzo(a)pyrene	2.87	0.250	mg/kg wet	2.500		115	40-140			
Benzo(b)fluoranthene	2.53	0.250	mg/kg wet	2.500		101	40-140			
Benzo(g,h,i)perylene	2.72	0.250	mg/kg wet	2.500		109	40-140			
Benzo(k)fluoranthene	2.62	0.250	mg/kg wet	2.500		105	40-140			
Benzoic Acid	1.31	2.50	mg/kg wet	2.500		52	40-140			
Benzyl Alcohol	1.83	0.500	mg/kg wet	2.500		73	40-140			
bis(2-Chloroethoxy)methane	2.04	0.250	mg/kg wet	2.500		82	40-140			
bis(2-Chloroethyl)ether	2.43	0.250	mg/kg wet	2.500		97	40-140			
bis(2-chloroisopropyl)Ether	2.14	0.250	mg/kg wet	2.500		85	40-140			
bis(2-Ethylhexyl)phthalate	2.63	0.250	mg/kg wet	2.500		105	40-140			
Butylbenzylphthalate	2.59	0.250	mg/kg wet	2.500		104	40-140			
Carbazole	2.53	0.250	mg/kg wet	2.500		101	40-140			
Chrysene	2.70	0.250	mg/kg wet	2.500		108	40-140			
Dibenzo(a,h)Anthracene	2.84	0.250	mg/kg wet	2.500		114	40-140			
Dibenzofuran	2.60	0.250	mg/kg wet	2.500		104	40-140			
Diethylphthalate	2.61	0.250	mg/kg wet	2.500		105	40-140			
Dimethylphthalate	2.63	0.250	mg/kg wet	2.500		105	40-140			
Di-n-butylphthalate	2.84	0.250	mg/kg wet	2.500		114	40-140			
Di-n-octylphthalate	2.43	0.500	mg/kg wet	2.500		97	40-140			
Fluoranthene	2.80	0.250	mg/kg wet	2.500		112	40-140			
Fluorene	2.62	0.250	mg/kg wet	2.500		105	40-140			
Hexachlorobenzene	2.77	0.250	mg/kg wet	2.500		111	40-140			
Hexachlorobutadiene	2.25	0.250	mg/kg wet	2.500		90	40-140			
Hexachlorocyclopentadiene	2.47	0.500	mg/kg wet	2.500		99	40-140			
Hexachloroethane	2.33	0.250	mg/kg wet	2.500		93	40-140			
Indeno(1,2,3-cd)Pyrene	2.56	0.250	mg/kg wet	2.500		102	40-140			
Isophorone	2.11	0.250	mg/kg wet	2.500		85	40-140			
Naphthalene	2.10	0.250	mg/kg wet	2.500		84	40-140			
Nitrobenzene	2.14	0.250	mg/kg wet	2.500		85	40-140			
N-Nitrosodimethylamine	1.84	0.250	mg/kg wet	2.500		74	40-140			
N-Nitroso-Di-n-Propylamine	2.32	0.250	mg/kg wet	2.500		93	40-140			
N-nitrosodiphenylamine	2.21	0.250	mg/kg wet	2.500		88	40-140			
Pentachlorophenol	1.62	1.00	mg/kg wet	2.500		65	30-130			
Phenanthrene	2.53	0.250	mg/kg wet	2.500		101	40-140			
Phenol	2.58	0.250	mg/kg wet	2.500		103	30-130			
Pyrene	2.60	0.250	mg/kg wet	2.500		104	40-140			
Pyridine	2.44	0.250	mg/kg wet	2.500		98	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.47		mg/kg wet	2.500		99	30-130			
Surrogate: 2,4,6-Tribromophenol	4.28		mg/kg wet	3.750		114	30-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

Surrogate: 2-Chlorophenol-d4	3.64		mg/kg wet	3.750		97	30-130			
Surrogate: 2-Fluorobiphenyl	2.78		mg/kg wet	2.500		111	30-130			
Surrogate: 2-Fluorophenol	3.42		mg/kg wet	3.750		91	30-130			
Surrogate: Nitrobenzene-d5	2.28		mg/kg wet	2.500		91	30-130			
Surrogate: Phenol-d6	3.67		mg/kg wet	3.750		98	30-130			
Surrogate: p-Terphenyl-d14	2.68		mg/kg wet	2.500		107	30-130			

LCS Dup

1,1-Biphenyl	2.52	0.025	mg/kg wet	2.500		101	40-140	2	30	
1,2,4-Trichlorobenzene	2.04	0.250	mg/kg wet	2.500		82	40-140	2	30	
1,2-Dichlorobenzene	2.24	0.250	mg/kg wet	2.500		90	40-140	5	30	
1,3-Dichlorobenzene	2.14	0.250	mg/kg wet	2.500		86	40-140	5	30	
1,4-Dichlorobenzene	2.31	0.250	mg/kg wet	2.500		92	40-140	4	30	
2,3,4,6-Tetrachlorophenol	2.52	0.250	mg/kg wet	2.500		101	30-130	3	30	
2,4,5-Trichlorophenol	2.49	0.250	mg/kg wet	2.500		99	30-130	0.8	30	
2,4,6-Trichlorophenol	2.25	0.250	mg/kg wet	2.500		90	30-130	0.6	30	
2,4-Dichlorophenol	2.14	0.250	mg/kg wet	2.500		86	30-130	0.1	30	
2,4-Dimethylphenol	2.17	0.250	mg/kg wet	2.500		87	30-130	2	30	
2,4-Dinitrophenol	2.34	1.00	mg/kg wet	2.500		93	30-130	5	30	
2,4-Dinitrotoluene	2.63	0.250	mg/kg wet	2.500		105	40-140	2	30	
2,6-Dinitrotoluene	2.55	0.250	mg/kg wet	2.500		102	40-140	0.3	30	
2-Chloronaphthalene	2.52	0.250	mg/kg wet	2.500		101	40-140	2	30	
2-Chlorophenol	2.23	0.250	mg/kg wet	2.500		89	30-130	2	30	
2-Methylnaphthalene	2.14	0.250	mg/kg wet	2.500		86	40-140	2	30	
2-Methylphenol	2.29	0.250	mg/kg wet	2.500		91	30-130	0.1	30	
2-Nitroaniline	2.91	0.500	mg/kg wet	2.500		116	40-140	3	30	
2-Nitrophenol	2.11	0.500	mg/kg wet	2.500		84	30-130	2	30	
3,3'-Dichlorobenzidine	2.40	0.250	mg/kg wet	2.500		96	40-140	3	30	
3+4-Methylphenol	4.74	0.250	mg/kg wet	5.000		95	30-130	0.6	30	
3-Nitroaniline	2.44	0.500	mg/kg wet	2.500		98	40-140	1	30	
4,6-Dinitro-2-Methylphenol	2.84	1.00	mg/kg wet	2.500		114	30-130	4	30	
4-Bromophenyl-phenylether	2.85	0.250	mg/kg wet	2.500		114	40-140	0.5	30	
4-Chloro-3-Methylphenol	2.23	0.250	mg/kg wet	2.500		89	30-130	2	30	
4-Chloroaniline	1.89	0.250	mg/kg wet	2.500		76	40-140	0.5	30	
4-Chloro-phenyl-phenyl ether	2.58	0.250	mg/kg wet	2.500		103	40-140	0.3	30	
4-Nitroaniline	2.34	0.500	mg/kg wet	2.500		94	40-140	2	30	
4-Nitrophenol	1.85	1.00	mg/kg wet	2.500		74	30-130	16	30	
Acenaphthene	2.49	0.250	mg/kg wet	2.500		100	40-140	0.4	30	
Acenaphthylene	2.63	0.250	mg/kg wet	2.500		105	40-140	2	30	
Acetophenone	2.37	0.250	mg/kg wet	2.500		95	40-140	0.7	30	
Aniline	1.43	0.250	mg/kg wet	2.500		57	40-140	2	30	
Anthracene	2.67	0.250	mg/kg wet	2.500		107	40-140	1	30	
Azobenzene	2.60	0.250	mg/kg wet	2.500		104	40-140	3	30	
Benzo(a)anthracene	2.55	0.250	mg/kg wet	2.500		102	40-140	1	30	
Benzo(a)pyrene	2.83	0.250	mg/kg wet	2.500		113	40-140	1	30	
Benzo(b)fluoranthene	2.50	0.250	mg/kg wet	2.500		100	40-140	1	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
---------	--------	-----	-------	-------------	---------------	------	-------------	-----	-----------	-----------

8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

Benzo(g,h,i)perylene	2.55	0.250	mg/kg wet	2.500		102	40-140	7	30	
Benzo(k)fluoranthene	2.59	0.250	mg/kg wet	2.500		104	40-140	1	30	
Benzoic Acid	1.45	2.50	mg/kg wet	2.500		58	40-140	10	30	
Benzyl Alcohol	1.83	0.500	mg/kg wet	2.500		73	40-140	0.5	30	
bis(2-Chloroethoxy)methane	2.02	0.250	mg/kg wet	2.500		81	40-140	1	30	
bis(2-Chloroethyl)ether	2.26	0.250	mg/kg wet	2.500		90	40-140	7	30	
bis(2-chloroisopropyl)Ether	2.12	0.250	mg/kg wet	2.500		85	40-140	0.9	30	
bis(2-Ethylhexyl)phthalate	2.60	0.250	mg/kg wet	2.500		104	40-140	0.9	30	
Butylbenzylphthalate	2.60	0.250	mg/kg wet	2.500		104	40-140	0.3	30	
Carbazole	2.51	0.250	mg/kg wet	2.500		100	40-140	0.9	30	
Chrysene	2.64	0.250	mg/kg wet	2.500		106	40-140	2	30	
Dibenzo(a,h)Anthracene	2.67	0.250	mg/kg wet	2.500		107	40-140	6	30	
Dibenzofuran	2.56	0.250	mg/kg wet	2.500		102	40-140	1	30	
Diethylphthalate	2.63	0.250	mg/kg wet	2.500		105	40-140	0.7	30	
Dimethylphthalate	2.61	0.250	mg/kg wet	2.500		105	40-140	0.6	30	
Di-n-butylphthalate	2.79	0.250	mg/kg wet	2.500		112	40-140	2	30	
Di-n-octylphthalate	2.46	0.500	mg/kg wet	2.500		98	40-140	1	30	
Fluoranthene	2.76	0.250	mg/kg wet	2.500		110	40-140	1	30	
Fluorene	2.59	0.250	mg/kg wet	2.500		104	40-140	1	30	
Hexachlorobenzene	2.78	0.250	mg/kg wet	2.500		111	40-140	0.5	30	
Hexachlorobutadiene	2.17	0.250	mg/kg wet	2.500		87	40-140	4	30	
Hexachlorocyclopentadiene	2.38	0.500	mg/kg wet	2.500		95	40-140	3	30	
Hexachloroethane	2.23	0.250	mg/kg wet	2.500		89	40-140	4	30	
Indeno(1,2,3-cd)Pyrene	2.43	0.250	mg/kg wet	2.500		97	40-140	5	30	
Isophorone	2.10	0.250	mg/kg wet	2.500		84	40-140	0.5	30	
Naphthalene	2.03	0.250	mg/kg wet	2.500		81	40-140	4	30	
Nitrobenzene	2.09	0.250	mg/kg wet	2.500		83	40-140	2	30	
N-Nitrosodimethylamine	1.77	0.250	mg/kg wet	2.500		71	40-140	4	30	
N-Nitroso-Di-n-Propylamine	2.29	0.250	mg/kg wet	2.500		92	40-140	1	30	
N-nitrosodiphenylamine	2.15	0.250	mg/kg wet	2.500		86	40-140	3	30	
Pentachlorophenol	1.64	1.00	mg/kg wet	2.500		66	30-130	1	30	
Phenanthrene	2.48	0.250	mg/kg wet	2.500		99	40-140	2	30	
Phenol	2.55	0.250	mg/kg wet	2.500		102	30-130	1	30	
Pyrene	2.57	0.250	mg/kg wet	2.500		103	40-140	1	30	
Pyridine	2.33	0.250	mg/kg wet	2.500		93	40-140	5	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.29		mg/kg wet	2.500		92	30-130			
Surrogate: 2,4,6-Tribromophenol	4.15		mg/kg wet	3.750		111	30-130			
Surrogate: 2-Chlorophenol-d4	3.48		mg/kg wet	3.750		93	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/kg wet	2.500		106	30-130			
Surrogate: 2-Fluorophenol	3.27		mg/kg wet	3.750		87	30-130			
Surrogate: Nitrobenzene-d5	2.25		mg/kg wet	2.500		90	30-130			
Surrogate: Phenol-d6	3.58		mg/kg wet	3.750		96	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/kg wet	2.500		104	30-130			

Classical Chemistry



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Classical Chemistry

Batch DG32422 - General Preparation

Reference

Flashpoint	81		°F	81.00		100	97.9-102.1			
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Batch DG32445 - General Preparation

Blank

Conductivity	ND	5	umhos/cm							
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LCS

Conductivity	1360		umhos/cm	1411		96	90-110			
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CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

Notes and Definitions

- U Analyte included in the analysis, but not detected
- B+ Blank Spike recovery is above upper control limit (B+).
- BT Benzidine tailing factor >2.
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- D Diluted.
- D+ Relative percent difference for duplicate is outside of criteria (D+).
- > Greater than.
- Q Calibration required quadratic regression (Q).
- Z-10e Soil pH measured in water at 22.5 °C.
- WL Results obtained from a deionized water leach of the sample.
- Z-08 See Attached
- Z-10 Soil pH measured in water at 22.0 °C.
- Z-10a Soil pH measured in water at 22.1 °C.
- Z-10b Soil pH measured in water at 22.2 °C.
- Z-10c Soil pH measured in water at 22.3 °C.
- Z-10d Soil pH measured in water at 22.4 °C.
- PT Pentachlorophenol tailing factor > 2.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probable Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0711

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>



195 Frances Avenue
 Cranston RI, 02910
 Phone: (401)-467-6454
 Fax: (401)-467-2398
cts.thielsch.com
Let's Build a Solid Foundation

Client Information:
 Downes Construction Co.
 Providence, RI
 Project Manager: Tim Thies
 Assigned By: ESS Laboratory
 Collected By: Andrew Hook

Project Information:
Stockpile Characterization
RHS, Newport RI
 Project Number: 23G0711
 Summary Page: 1 of 1
 Report Date: 07.31.23

LABORATORY TESTING DATA SHEET, Report No.: 7423-G-193

Material Source	Sample ID	Depth (ft)	Laboratory No.	Identification Tests								Proctor / CBR / Permeability Tests							Laboratory Log and Soil Description		
				As Rcvd Moisture Content %	LL %	PL %	Gravel %	Sand %	Fines %	Org. %	pH	g_d MAX (pcf) W_{opt} (%)	g_d MAX (pcf) W_{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"		Permeability cm/sec	
				D2216	D4318	D6913			D2974	D4792	D1557										
Grab	DISP-301A	-	23G0711-01				23.5	35.5	41.0												Brown silty clayey sand with gravel
Grab	DISP-301B	-	23G0711-02				14.2	38.2	47.6												Brown silty clayey sand
Grab	DISP-301C	-	23G0711-03				24.9	37.0	38.1												Brown silty sand with gravel
Grab	DISP-301D	-	23G0711-04				17.7	38.5	43.8												Brown silty clayey sand with gravel
Grab	DISP-302A	-	23G0711-05				15.6	38.1	46.3												Brown silty clayey sand with gravel
Grab	DISP-302B	-	23G0711-06				17.7	38.9	43.4												Brown silty sand with gravel
Grab	DISP-302C	-	23G0711-07				19.3	37.4	43.3												Brown silty sand with gravel
Grab	DISP-302D	-	23G0711-08				14.3	40.6	45.1												Brown silty clayey sand
Grab	DISP-303A	-	23G0711-09				13.7	40.2	46.1												Brown silty sand
Grab	DISP-303B	-	23G0711-10				10.7	44.6	44.7												

Date Received: 07.21.23

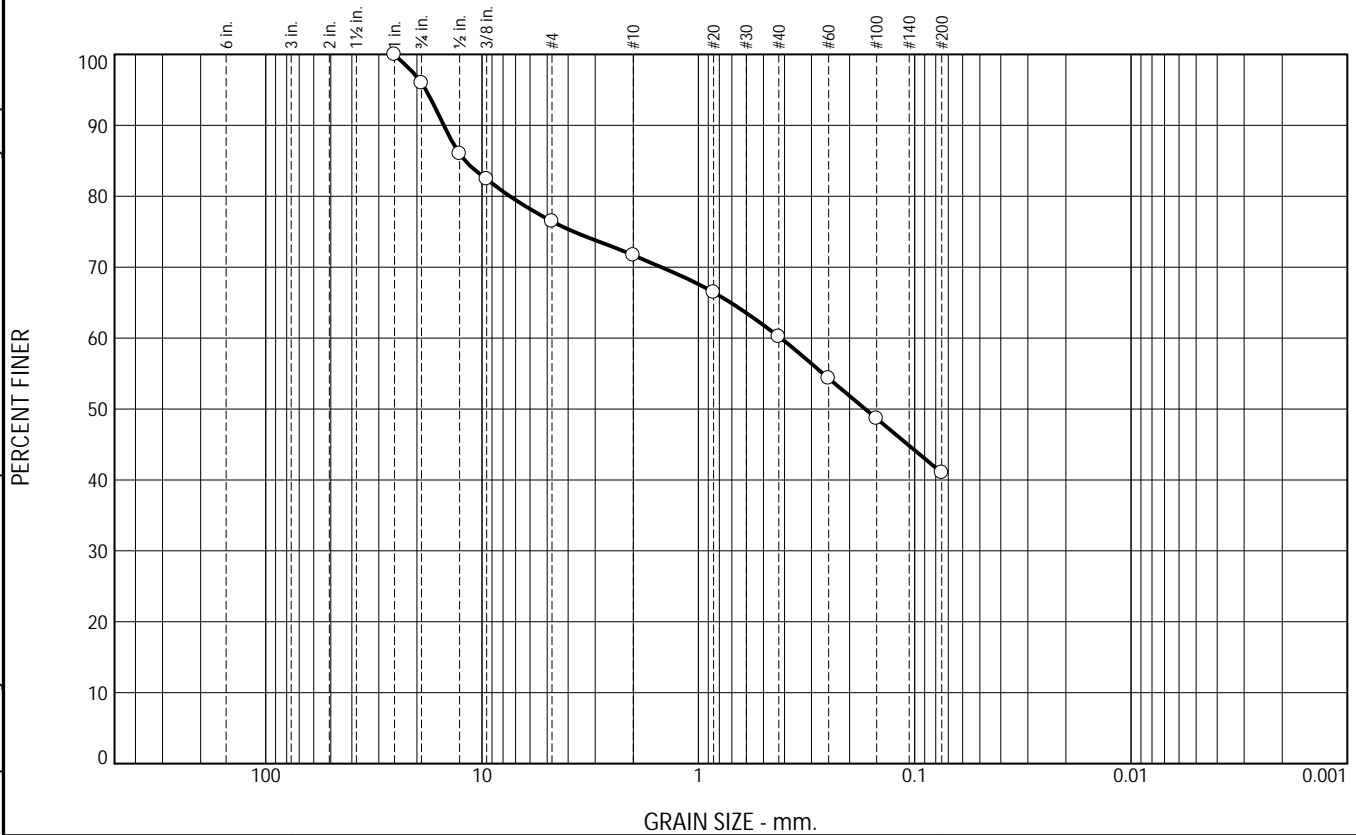
Reviewed By: 

Date Reviewed: 07.31.23

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 This report shall not be reproduced, except in full, without prior written approval from the Agency, as defined in ASTM E329.

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.0	19.5	4.8	11.5	19.2	41.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	96.0		
1/2"	86.0		
3/8"	82.4		
#4	76.5		
#10	71.7		
#20	66.5		
#40	60.2		
#60	54.3		
#100	48.7		
#200	41.0		

Soil Description

Brown silty clayey sand with gravel

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 15.0235 D₈₅= 11.9614 D₆₀= 0.4162
 D₅₀= 0.1694 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-301A

Date: 7.26.23

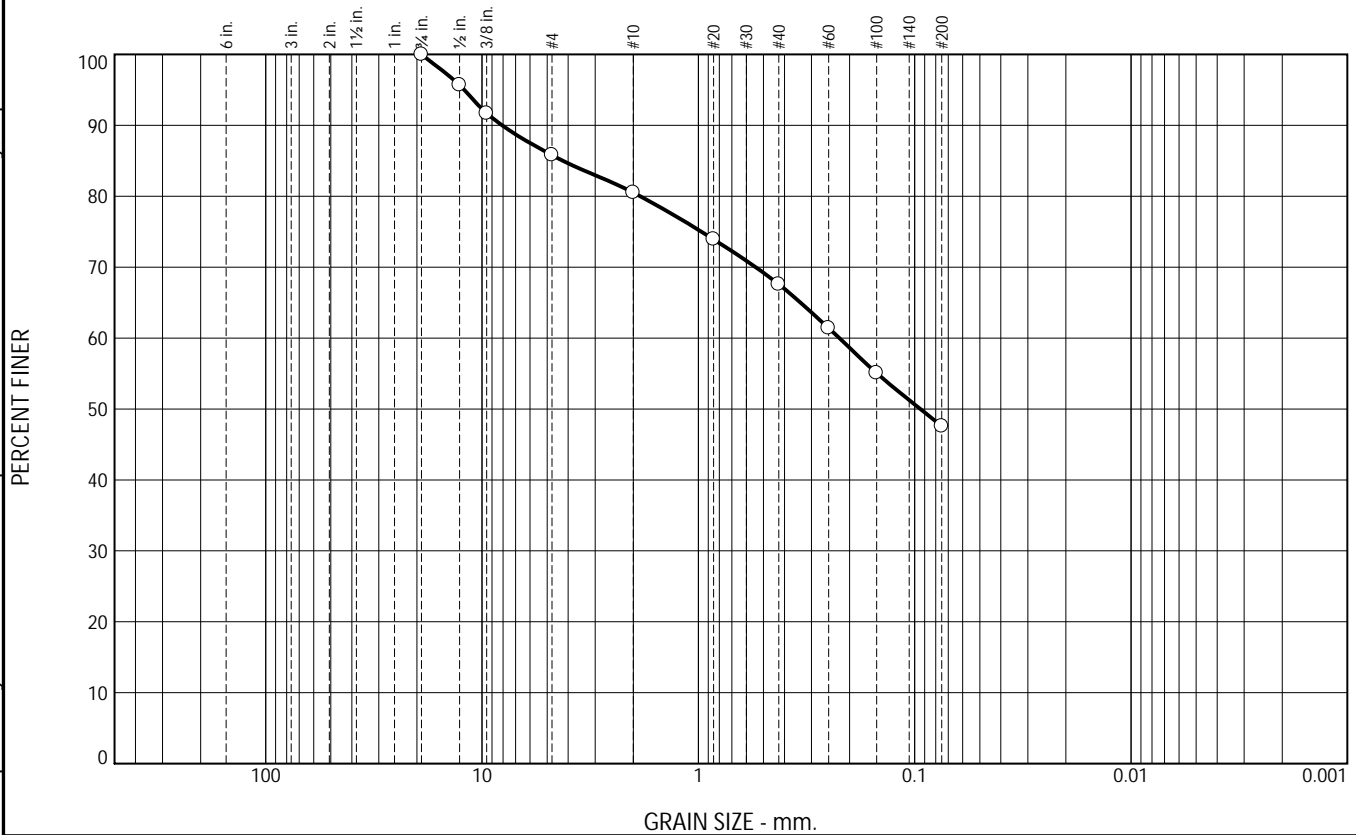
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-01	

Tested By: RB / JB

Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.2	5.3	12.9	20.0	47.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	95.7		
3/8"	91.7		
#4	85.8		
#10	80.5		
#20	73.9		
#40	67.6		
#60	61.4		
#100	55.1		
#200	47.6		

Soil Description

Brown silty clayey sand

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 8.0754 D₈₅= 4.2291 D₆₀= 0.2229
 D₅₀= 0.0942 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/8".

* (no specification provided)

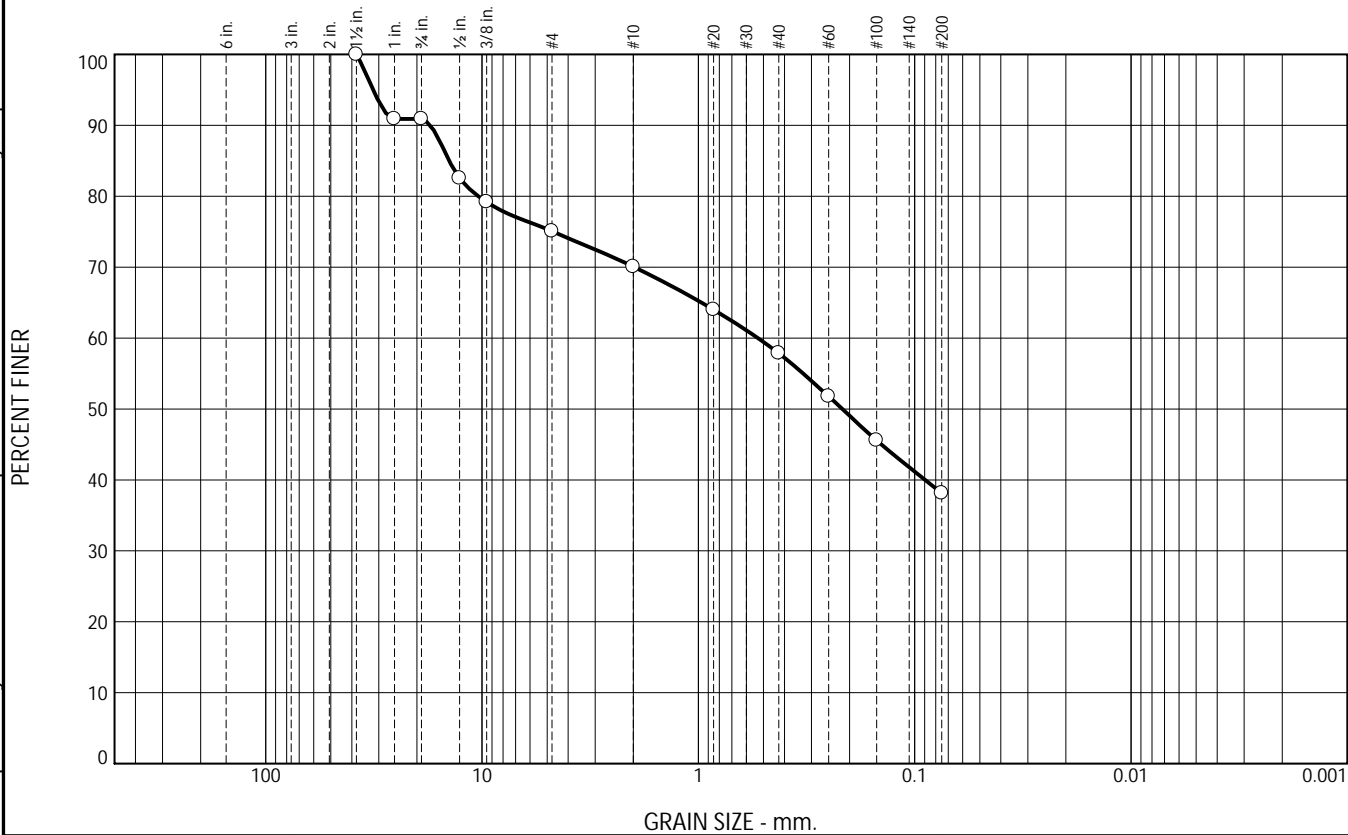
Source of Sample: Grab Depth: - Date: 07.27.23
 Sample Number: DISP-301B

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-02	

Tested By: RB / JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	9.1	15.8	5.0	12.2	19.8	38.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0		
1"	90.9		
3/4"	90.9		
1/2"	82.5		
3/8"	79.2		
#4	75.1		
#10	70.1		
#20	64.0		
#40	57.9		
#60	51.8		
#100	45.6		
#200	38.1		

Soil Description

Brown silty sand with gravel

PL= NP Atterberg Limits LL= NV PI= NP
 D₉₀= 17.3044 D₈₅= 14.1807 D₆₀= 0.5306
 D₅₀= 0.2158 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-301C

Date: 7.27.23

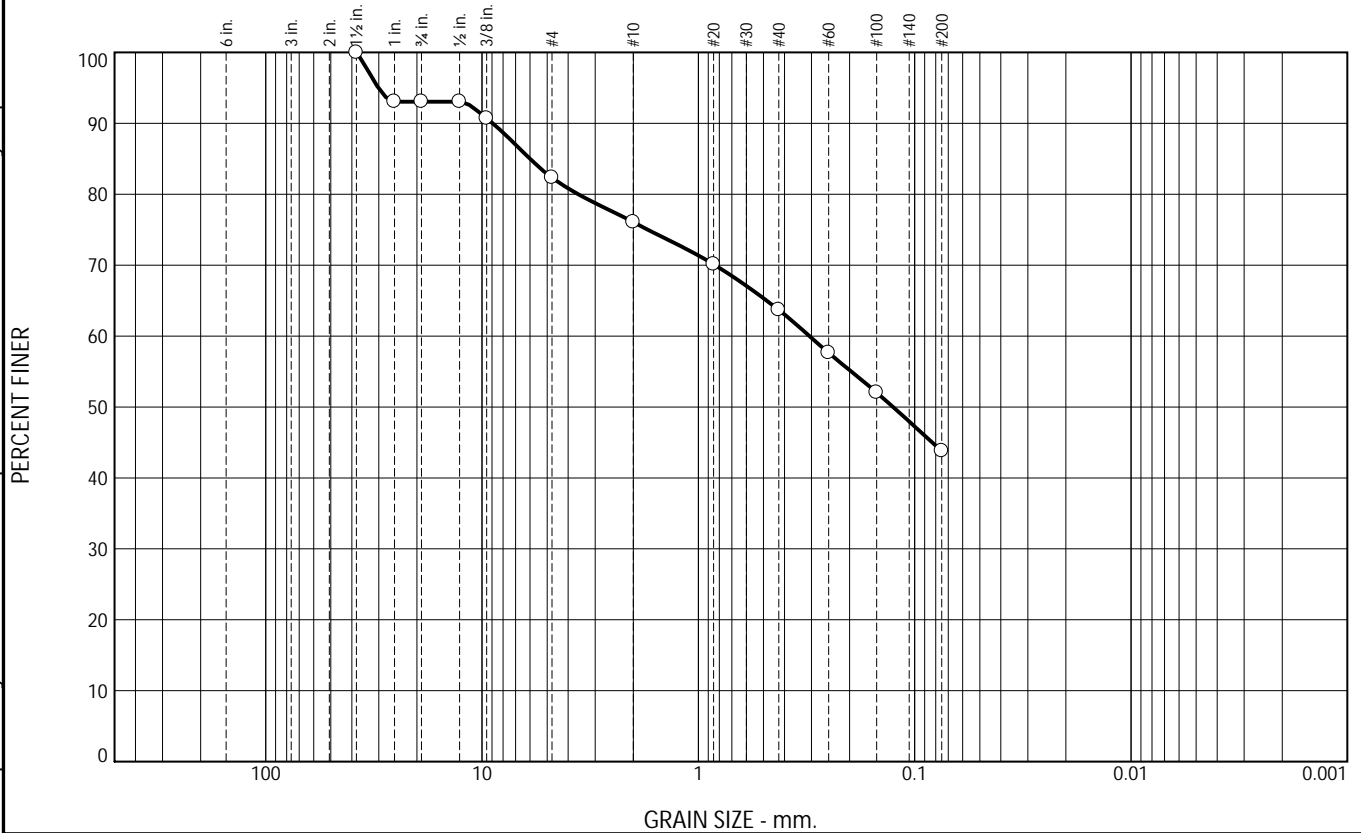
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-03	

Tested By: RB / JB

Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	6.9	10.8	6.2	12.4	19.9	43.8	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0		
1"	93.1		
3/4"	93.1		
1/2"	93.1		
3/8"	90.7		
#4	82.3		
#10	76.1		
#20	70.1		
#40	63.7		
#60	57.6		
#100	52.0		
#200	43.8		

Soil Description

Brown silty clayey sand with gravel

PL=	<u>Atterberg Limits</u>	PI=
	LL=	

	<u>Coefficients</u>	
D ₉₀ = 8.9228	D ₈₅ = 5.9993	D ₆₀ = 0.3066
D ₅₀ = 0.1259	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =

USCS= SM	<u>Classification</u>	AASHTO= A-4(0)
----------	-----------------------	----------------

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-301D

Date: 07.27.23

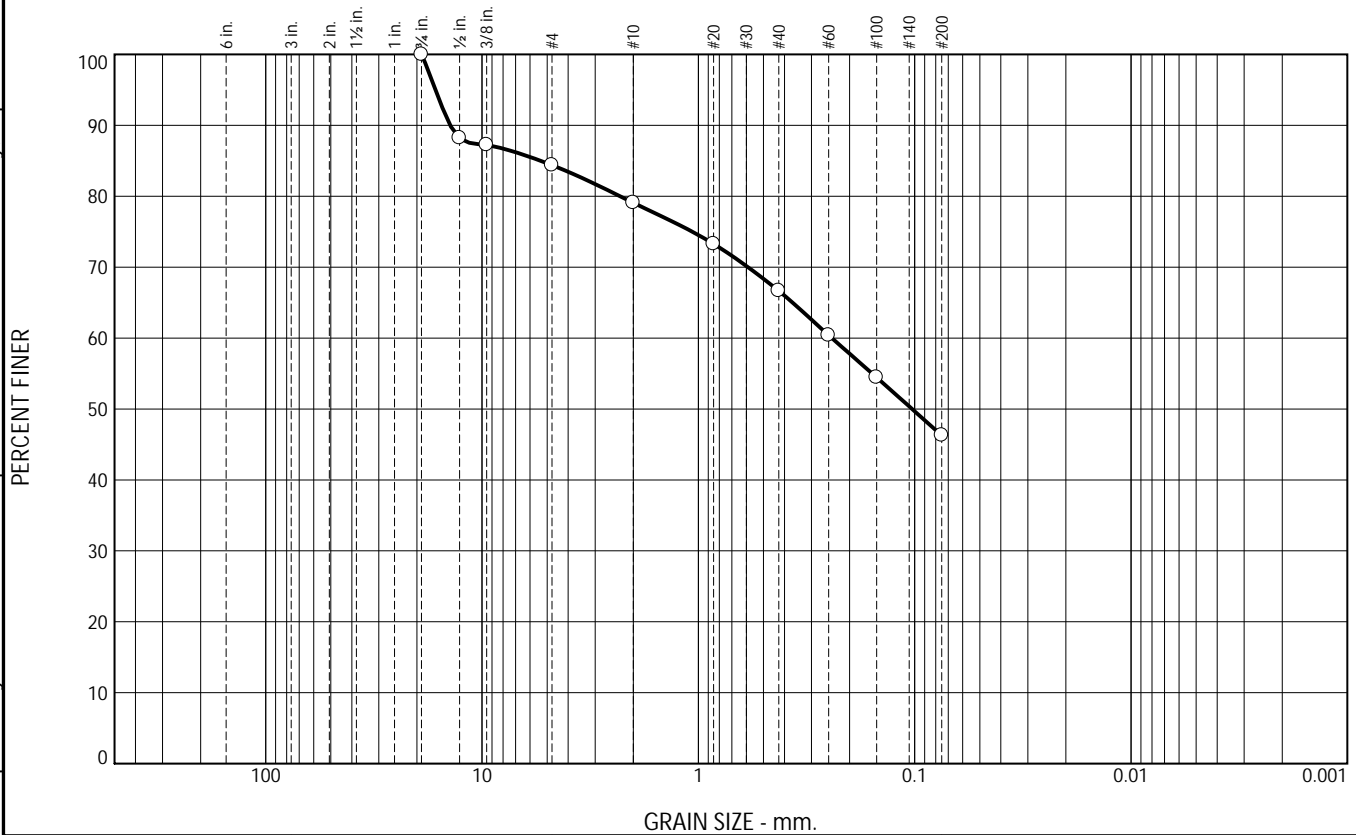
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
	Fig. 23G0711-04

Tested By: RB / JB

Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	15.6	5.3	12.4	20.4	46.3	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	88.2		
3/8"	87.2		
#4	84.4		
#10	79.1		
#20	73.3		
#40	66.7		
#60	60.4		
#100	54.5		
#200	46.3		

Soil Description

Brown silty clayey sand with gravel

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 14.0178 D₈₅= 5.3693 D₆₀= 0.2416
 D₅₀= 0.1028 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-302A

Date: 07.27.23

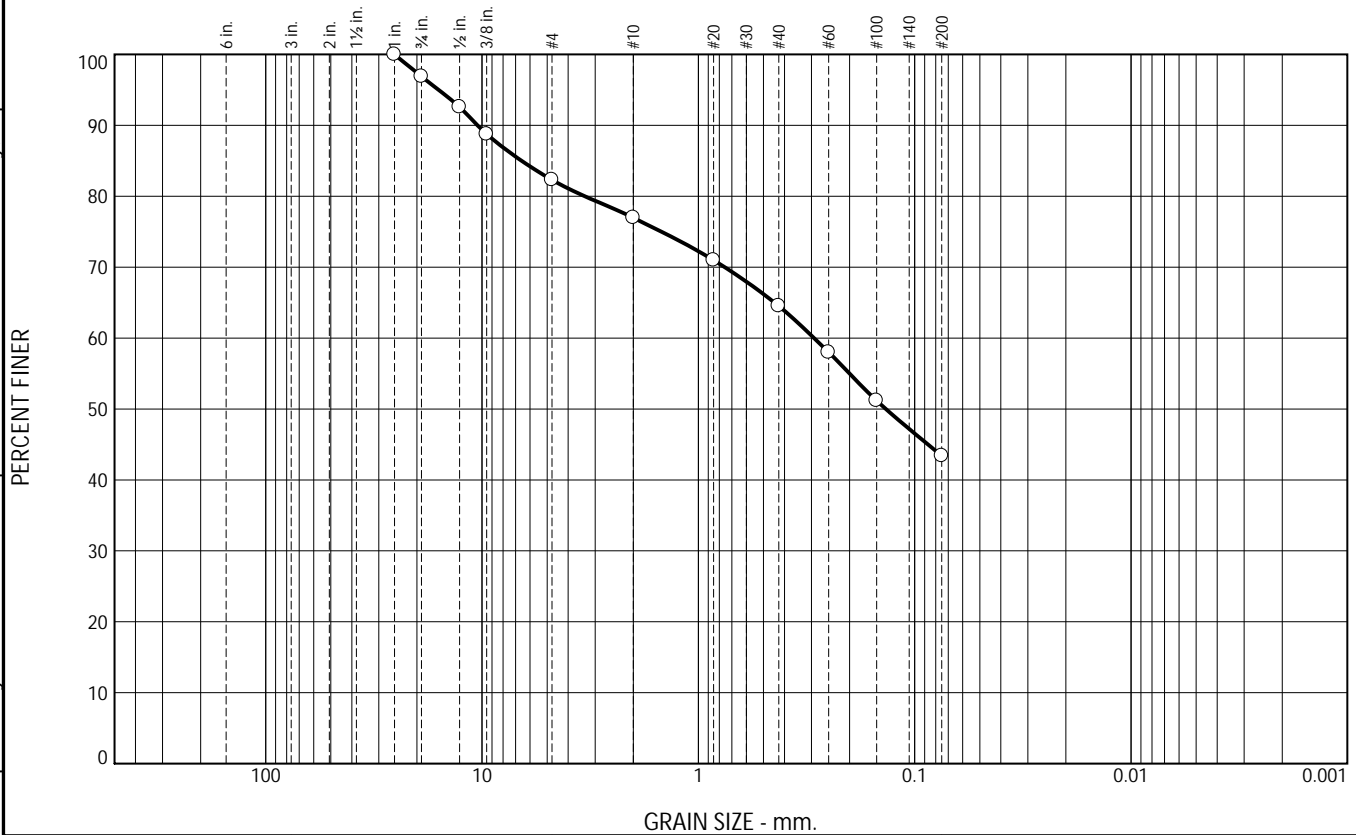
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-05	

Tested By: RB / JB

Checked By:

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.1	14.6	5.3	12.5	21.1	43.4	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	96.9		
1/2"	92.6		
3/8"	88.8		
#4	82.3		
#10	77.0		
#20	71.0		
#40	64.5		
#60	58.0		
#100	51.2		
#200	43.4		

Soil Description

Brown silty sand with gravel

PL= NP Atterberg Limits LL= NV PI= NP
 D₉₀= 10.4986 Coefficients D₈₅= 6.5578 D₆₀= 0.2921
 D₅₀= 0.1359 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-302B

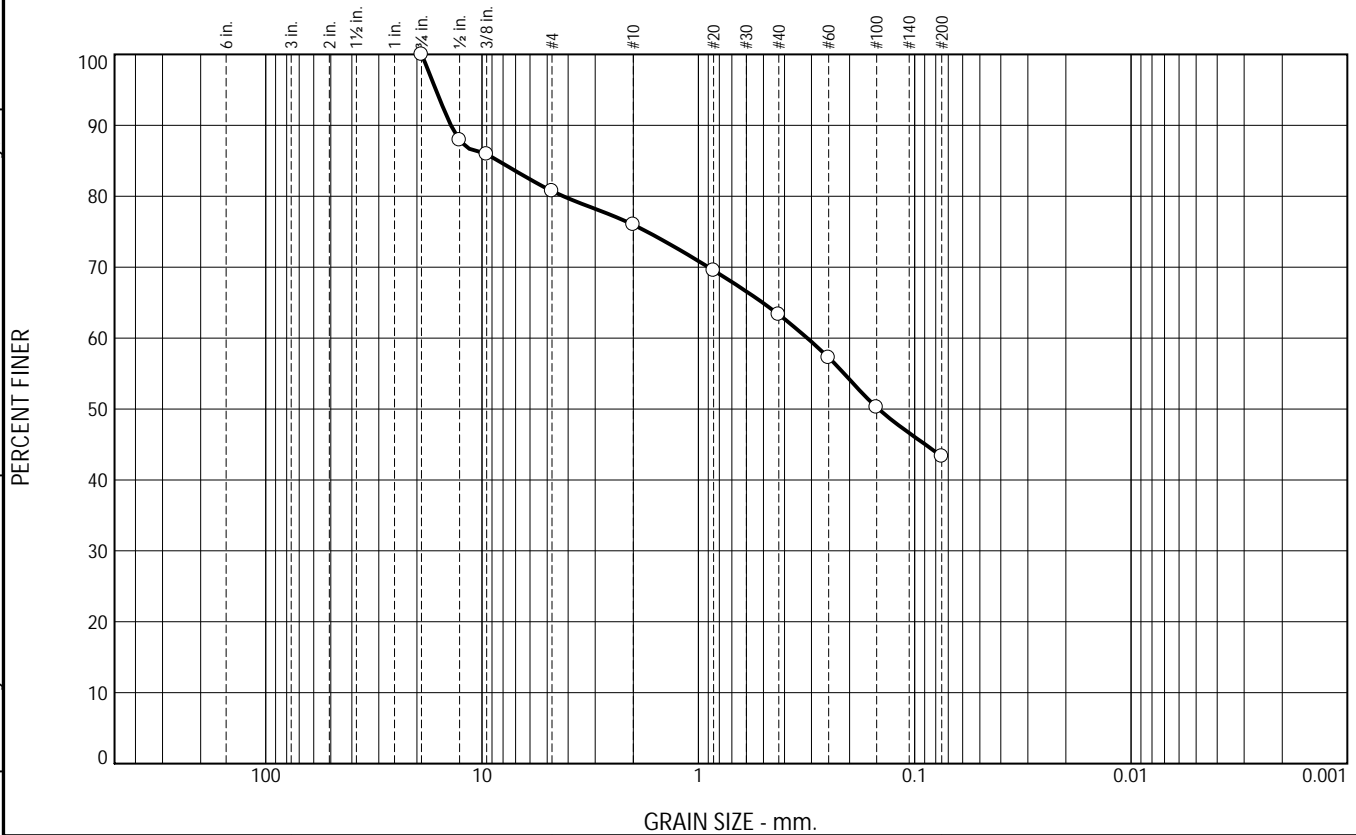
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-06	

Tested By: RB / JB Checked By:

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	19.3	4.7	12.7	20.0	43.3	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	87.9		
3/8"	85.9		
#4	80.7		
#10	76.0		
#20	69.5		
#40	63.3		
#60	57.2		
#100	50.2		
#200	43.3		

Soil Description

Brown silty sand with gravel

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 13.9152 D₈₅= 8.4115 D₆₀= 0.3139
 D₅₀= 0.1469 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-302C

Date: 07.27.23

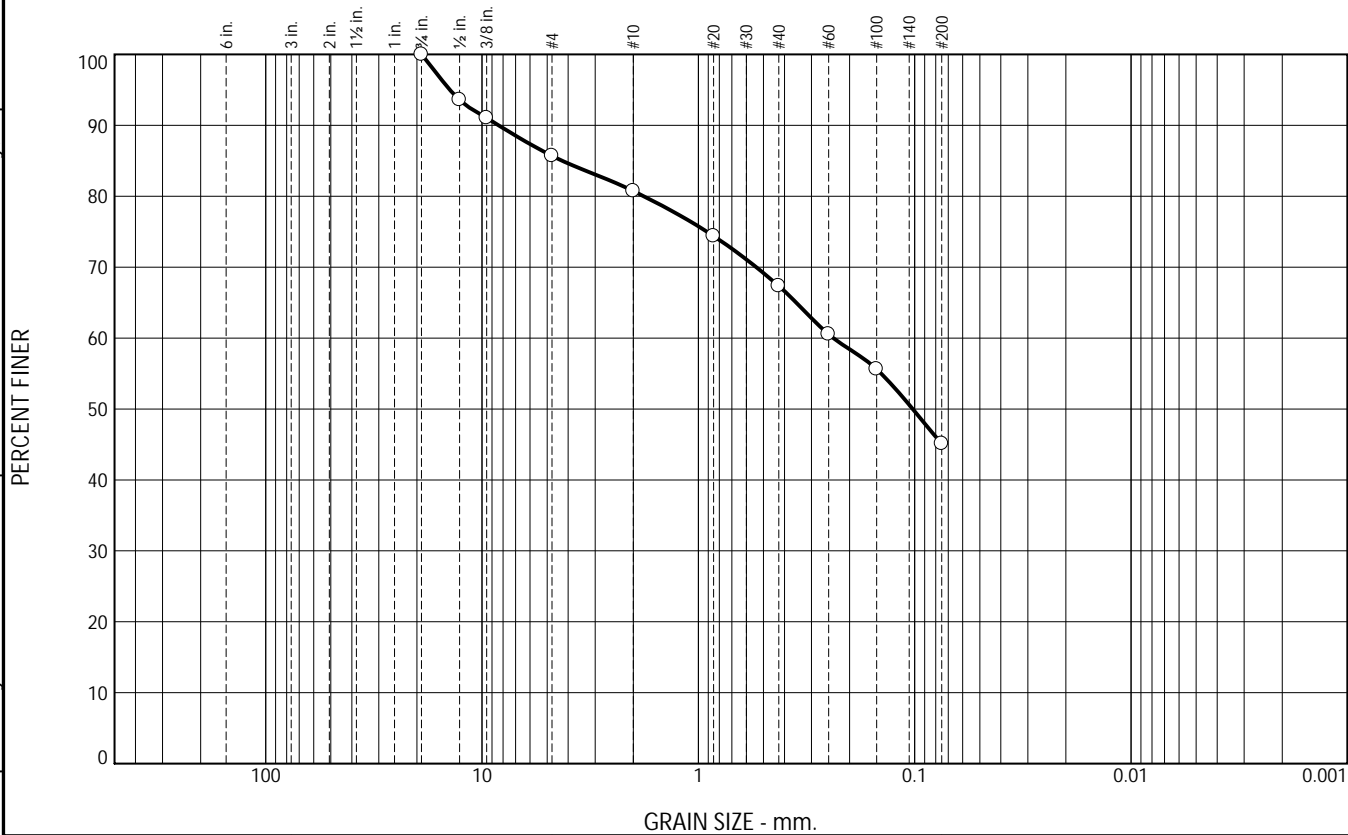
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-07	

Tested By: RB / JB

Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.3	5.0	13.3	22.3	45.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	93.6		
3/8"	91.1		
#4	85.7		
#10	80.7		
#20	74.4		
#40	67.4		
#60	60.5		
#100	55.6		
#200	45.1		

Soil Description

Brown silty clayey sand

PL= Atterberg Limits PI=
 LL=

Coefficients

D₉₀= 8.3797 D₈₅= 4.2540 D₆₀= 0.2379
 D₅₀= 0.1021 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-302D

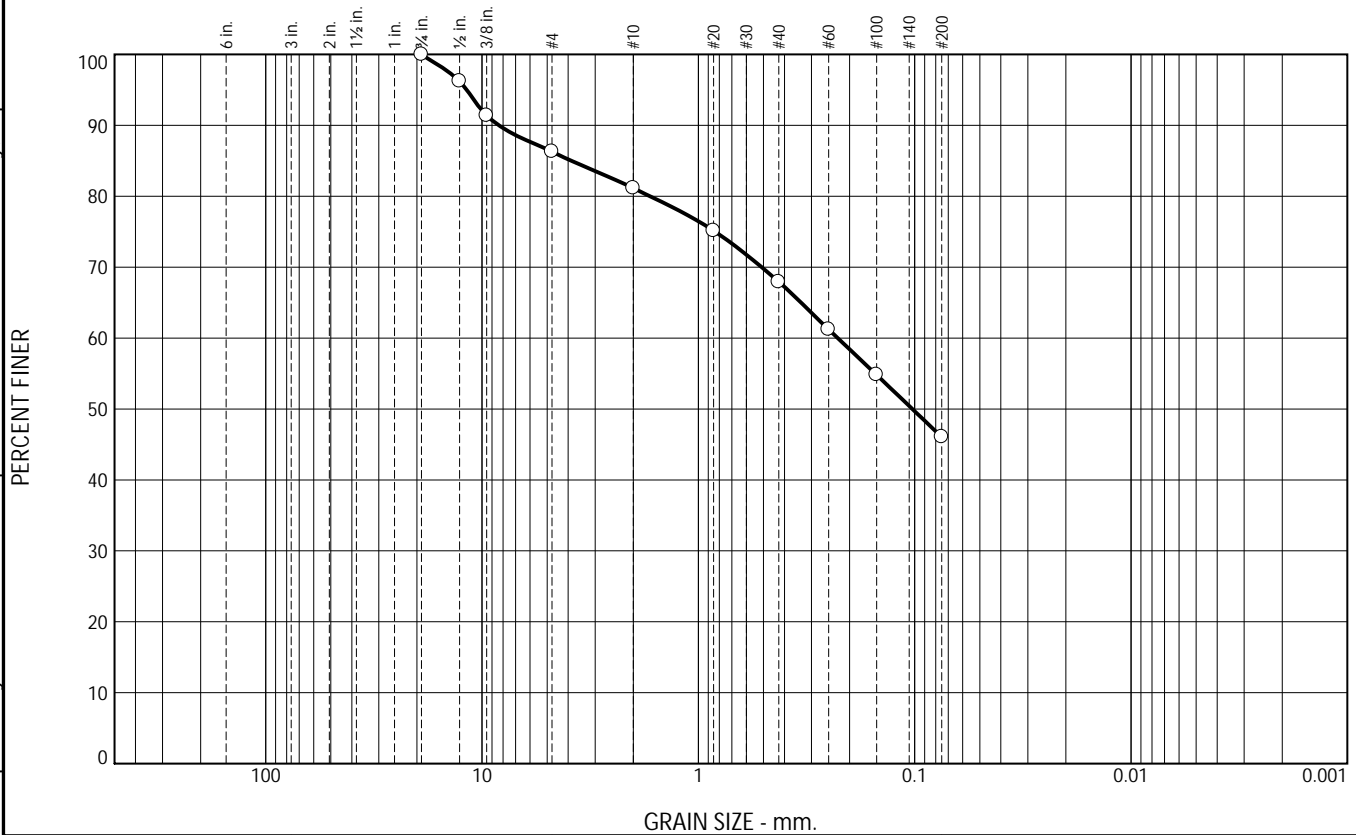
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-08	

Tested By: RB / JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	13.7	5.2	13.2	21.8	46.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	96.2		
3/8"	91.4		
#4	86.3		
#10	81.1		
#20	75.1		
#40	67.9		
#60	61.2		
#100	54.8		
#200	46.1		

Soil Description

Brown silty sand

Atterberg Limits

PL= NP LL= NV PI= NP

Coefficients

D₉₀= 8.3590 D_{g5}= 3.8600 D₆₀= 0.2270
D₅₀= 0.1025 D₃₀= D₁₅=
D₁₀= C_u= C_c=

Classification

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab Depth: -
Sample Number: DISP-303A

Date: 07.27.23

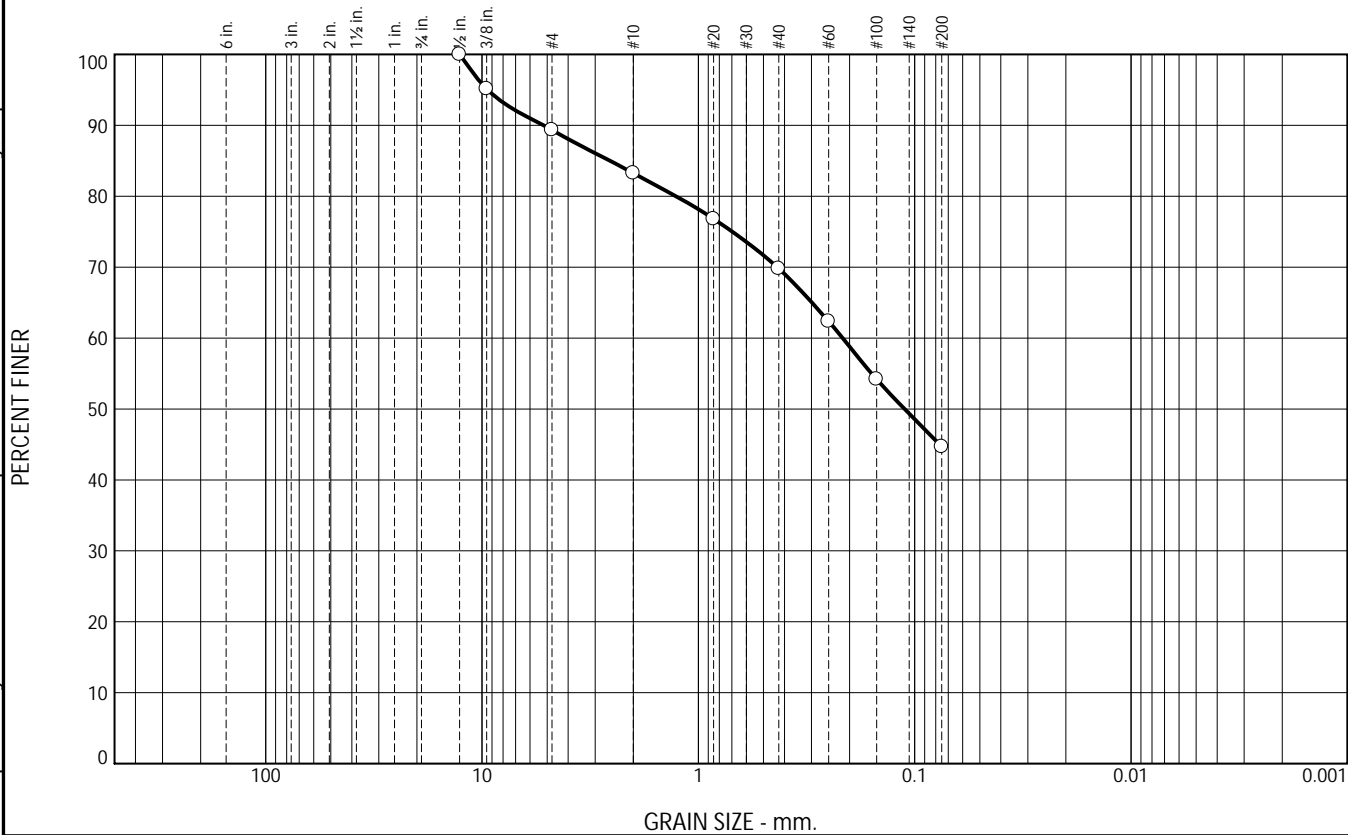
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-09	

Tested By: RB / JB

Checked By:

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	10.7	6.0	13.5	25.1	44.7	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1/2"	100.0		
3/8"	95.1		
#4	89.3		
#10	83.3		
#20	76.8		
#40	69.8		
#60	62.3		
#100	54.2		
#200	44.7		

Soil Description

Brown silty sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 5.1942 D₈₅= 2.5601 D₆₀= 0.2153
 D₅₀= 0.1114 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-303B

Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0711
Fig. 23G0711-10	

Tested By: RB / JB

Checked By:

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Pare Corporation - TB

ESS Project ID: 23G0711

Date Received: 7/21/2023

Project Due Date: 7/28/2023

Days for Project: 5 Day

Shipped/Delivered Via: Client

1. Air bill manifest present? No

Air No.: NA

6. Does COC match bottles? Yes

2. Were custody seals present? No

7. Is COC complete and correct? Yes

3. Is radiation count <100 CPM? Yes

8. Were samples received intact? Yes

4. Is a Cooler Present? Yes

Temp: 19.4 Iced with: Ice

9. Were labs informed about short holds & rushes? Yes / No / NA

10. Were any analyses received outside of hold time? Yes / No

5. Was COC signed and dated by client? Yes

11. Any Subcontracting needed? Yes / No

ESS Sample IDs: 1--10

Analysis: Sieve

TAT: 5 day

12. Were VOAs received? Yes / No

a. Air bubbles in aqueous VOAs? Yes / No

b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No

a. If metals preserved upon receipt: Date: 7/21/23

b. Low Level VOA vials frozen: Date: 7/21/23

Time: 1802 By/Acid Lot#: W

Time: 1802 By: W

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No

a. Was there a need to contact the client? Yes / No

Who was contacted? _____ Date: _____

Time: _____ By: _____

Resolution:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	456378	Yes	N/A	Yes	VOA Vial	DI Water	
1	456379	Yes	N/A	Yes	VOA Vial	DI Water	
1	456398	Yes	N/A	Yes	VOA Vial	MeOH	
1	456408	Yes	N/A	Yes	Driller Jar	NP	
1	456418	Yes	N/A	Yes	8 oz jar	NP	
1	456419	Yes	N/A	Yes	8 oz jar	NP	
2	456380	Yes	N/A	Yes	VOA Vial	DI Water	
2	456381	Yes	N/A	Yes	VOA Vial	DI Water	
2	456399	Yes	N/A	Yes	VOA Vial	MeOH	
2	456409	Yes	N/A	Yes	Driller Jar	NP	
2	456420	Yes	N/A	Yes	8 oz jar	NP	
2	456421	Yes	N/A	Yes	8 oz jar	NP	
3	456382	Yes	N/A	Yes	VOA Vial	DI Water	
3	456383	Yes	N/A	Yes	VOA Vial	DI Water	
3	456400	Yes	N/A	Yes	VOA Vial	MeOH	
3	456410	Yes	N/A	Yes	Driller Jar	NP	
3	456422	Yes	N/A	Yes	8 oz jar	NP	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Pare Corporation - TB

ESS Project ID: 23G0711

Date Received: 7/21/2023

3	456423	Yes	N/A	Yes	8 oz jar	NP
4	456384	Yes	N/A	Yes	VOA Vial	DI Water
4	456385	Yes	N/A	Yes	VOA Vial	DI Water
4	456401	Yes	N/A	Yes	VOA Vial	MeOH
4	456411	Yes	N/A	Yes	Driller Jar	NP
4	456424	Yes	N/A	Yes	8 oz jar	NP
4	456425	Yes	N/A	Yes	8 oz jar	NP
5	456386	Yes	N/A	Yes	VOA Vial	DI Water
5	456387	Yes	N/A	Yes	VOA Vial	DI Water
5	456402	Yes	N/A	Yes	VOA Vial	MeOH
5	456412	Yes	N/A	Yes	Driller Jar	NP
5	456426	Yes	N/A	Yes	8 oz jar	NP
5	456427	Yes	N/A	Yes	8 oz jar	NP
6	456388	Yes	N/A	Yes	VOA Vial	DI Water
6	456389	Yes	N/A	Yes	VOA Vial	DI Water
6	456403	Yes	N/A	Yes	VOA Vial	MeOH
6	456413	Yes	N/A	Yes	Driller Jar	NP
6	456428	Yes	N/A	Yes	8 oz jar	NP
6	456429	Yes	N/A	Yes	8 oz jar	NP
7	456390	Yes	N/A	Yes	VOA Vial	DI Water
7	456391	Yes	N/A	Yes	VOA Vial	DI Water
7	456404	Yes	N/A	Yes	VOA Vial	MeOH
7	456414	Yes	N/A	Yes	Driller Jar	NP
7	456430	Yes	N/A	Yes	8 oz jar	NP
7	456431	Yes	N/A	Yes	8 oz jar	NP
8	456392	Yes	N/A	Yes	VOA Vial	DI Water
8	456393	Yes	N/A	Yes	VOA Vial	DI Water
8	456405	Yes	N/A	Yes	VOA Vial	MeOH
8	456415	Yes	N/A	Yes	Driller Jar	NP
8	456432	Yes	N/A	Yes	8 oz jar	NP
8	456433	Yes	N/A	Yes	8 oz jar	NP
9	456394	Yes	N/A	Yes	VOA Vial	DI Water
9	456395	Yes	N/A	Yes	VOA Vial	DI Water
9	456406	Yes	N/A	Yes	VOA Vial	MeOH
9	456416	Yes	N/A	Yes	Driller Jar	NP
9	456434	Yes	N/A	Yes	8 oz jar	NP
9	456435	Yes	N/A	Yes	8 oz jar	NP
10	456396	Yes	N/A	Yes	VOA Vial	DI Water
10	456397	Yes	N/A	Yes	VOA Vial	DI Water
10	456407	Yes	N/A	Yes	VOA Vial	MeOH
10	456417	Yes	N/A	Yes	Driller Jar	NP
10	456436	Yes	N/A	Yes	8 oz jar	NP
10	456437	Yes	N/A	Yes	8 oz jar	NP

2nd Review

Were all containers scanned into storage/lab?

Initials TD

Are barcode labels on correct containers?

Yes / No

Are all Flashpoint stickers attached/container ID # circled?

Yes / No / NA

Are all Hex Chrome stickers attached?

Yes / No / NA

Are all QC stickers attached?



Yes / No / NA

Are VOA stickers attached if bubbles noted?

Yes / No / NA

Completed

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Pare Corporation - TB ESS Project ID: 23G0711
Date Received: 7/21/2023
By:  Date & Time: 1713 7/21/23
Reviewed By:  Date & Time: 7/21/23 1803



185 Frances Avenue
 Cranston, RI 02910
 Phone: 401-461-7181
 Fax: 401-461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 2360711 Page 1 of 3

Turn Time (Days) > 5 5 4 3 2 1 Same Day

Regulatory State: Rhode Island Criteria: R-DEC, GA-LC

Is this project for any of the following?:
 CT RCP MA MCP RGP Permit 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

Limit Checker State Forms EQulS
 Excel State Upload Enviro Data
 CLP-Like Package Other (Specify) →

CLIENT INFORMATION		PROJECT INFORMATION		REQUESTED ANALYSES										Total Number of Bottles
Client: Joe Desanti, Downes Construction Co.		Project Name: Stockpile Characterization		VOCs (8260) SVOCs (8270) TPH (8100M) RCRA 8 Metals (6010/7141) Organochlorine Pesticides (8081) PCBs (8082) pH Flashpoint Conductivity Sieve										
Address: 10 Dorrance Street Providence, RI		Project Location: Rogers High, Newport, RI												
Phone: (860) 229-3755		Project Number: 21106.00												
Email Distribution List: abarton@parecorp.com tthies@parecorp.com mflynn@parecorp.com		Project Manager: Tim Thies, Pare Corporation												
		Bill to: jdesanti@downesco.com												
		PO#: 21106.00												
		Quote#:		Client acknowledges that sampling is compliant with all EPA / State regulatory programs										

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOCs (8260)	SVOCs (8270)	TPH (8100M)	RCRA 8 Metals (6010/7141)	Organochlorine Pesticides (8081)	PCBs (8082)	pH	Flashpoint	Conductivity	Sieve	Total Number of Bottles
1	07/21/23	0835	Grab	Soil	DISP-301A	X	X	X	X	X	X	X	X	X	X	6
2		0850			DISP-301B											
3		0810			DISP-301C											
4		0820			DISP-301D											
5		0900			DISP-302A											
6		0910			DISP-302B											
7		0920			DISP-302C											
8		0930			DISP-302D											
9		1230			DISP-303A											
10		1240			DISP-303B											

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial

Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*

Sampled by : Andrew Hook (sign) Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only	Comments: * Please specify "Other" preservative and containers types in this space	All samples submitted are subject to ESS Laboratory's payment terms and conditions.	Dissolved Filtration <input type="checkbox"/> Lab Filter
Cooler Temperature (°C): 19.4 Ice	Glassware: 2 x 8oz non-pres ambers, 2 x 40mL Stir Bar VOAs, 1 x 40mL MeOH VOA, 1 8-oz bag		

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<i>Andrew Hook</i>	7/21/23	16:30	<i>[Signature]</i>				



CERTIFICATE OF ANALYSIS

Tim Thies
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

RE: Stockpile Characterization (21106.00)
ESS Laboratory Work Order Number: 23G0712

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:33 pm, Aug 03, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI

Sieve Analysis



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

SAMPLE RECEIPT

The following samples were received on July 21, 2023 for the analyses specified on the enclosed Chain of Custody Record.

Low Level VOA vials were frozen by ESS Laboratory on July 21, 2023 at 17:50.

The cooler temperature was not within the acceptance limit of <6°C, however, samples were delivered on ice and therefore meet regulatory criteria.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
23G0712-01	DISP-303C	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-02	DISP-303D	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-03	DISP-304A	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-04	DISP-304B	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-05	DISP-304C	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-06	DISP-304D	Soil	1010A, 6010C, 6020A, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-07	DISP-305C	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-08	DISP-305D	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB
23G0712-09	DISP-101A	Soil	SUB
23G0712-10	DISP-101B	Soil	SUB
23G0712-11	DISP-101C-D	Soil	SUB
23G0712-12	DISP-102A	Soil	SUB
23G0712-13	DISP-103A	Soil	SUB
23G0712-14	DISP-104A	Soil	SUB



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

PROJECT NARRATIVE

8270D Semi-Volatile Organic Compounds

- D3G0443-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (120% @ 80-120%), 4,6-Dinitro-2-Methylphenol (138% @ 80-120%), Benzoic Acid (87% @ 80-120%)
- D3G0443-CCV1 **Continuing Calibration %Diff/Drift is above control limit (CD+).**
4,6-Dinitro-2-Methylphenol (38% @ 20%)
- D3G0443-CCV1 **Continuing Calibration %Diff/Drift is below control limit (CD-).**
4-Nitrophenol (23% @ 20%), Pentachlorophenol (25% @ 20%)
- D3G0443-TUN1 **Pentachlorophenol tailing factor > 2.**
- D3G0506-CCV1 **Calibration required quadratic regression (Q).**
2,4-Dinitrophenol (129% @ 80-120%), 4,6-Dinitro-2-Methylphenol (130% @ 80-120%), Benzoic Acid (86% @ 80-120%)
- D3G0506-CCV1 **Continuing Calibration %Diff/Drift is above control limit (CD+).**
2,4-Dinitrophenol (29% @ 20%), 2-Nitroaniline (26% @ 20%), 4,6-Dinitro-2-Methylphenol (30% @ 20%)
- D3G0506-TUN1 **Benzidine tailing factor >2.**

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	5.00 (2.31)		6010C		1	CEV	07/28/23 19:20	2.35	100	DG32723
Barium	26.9 (2.31)		6010C		1	CEV	07/28/23 19:20	2.35	100	DG32723
Cadmium	ND (0.46)		6010C		1	CEV	07/28/23 19:20	2.35	100	DG32723
Chromium	13.4 (1.85)		6010C		2	CEV	07/31/23 11:47	2.35	100	DG32723
Lead	18.1 (9.26)		6010C		2	CEV	07/31/23 11:47	2.35	100	DG32723
Mercury	ND (0.034)		7471B		1	BJV	07/27/23 12:56	0.63	40	DG32713
Selenium	ND (0.46)		6020A		1	BJV	07/31/23 13:48	2.35	100	DG32723
Silver	ND (0.93)		6010C		2	CEV	07/31/23 11:47	2.35	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1,4-Dioxane	ND (0.105)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
1-Chlorohexane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
2-Butanone	ND (0.0523)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
2-Chlorotoluene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
2-Hexanone	ND (0.0523)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
4-Chlorotoluene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0523)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Acetone	ND (0.0523)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Benzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Bromobenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Bromodichloromethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Bromoform	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Bromomethane	ND (0.0105)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Carbon Disulfide	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Chlorobenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Chloroethane	ND (0.0105)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Chloroform	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Chloromethane	ND (0.0105)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Dibromochloromethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Dibromomethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0105)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Diethyl Ether	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Di-isopropyl ether	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Ethylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Isopropylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Methylene Chloride	ND (0.0261)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Naphthalene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
n-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
n-Propylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
sec-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Styrene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
tert-Butylbenzene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Tetrachloroethene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Tetrahydrofuran	ND (0.0209)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92
Initial Volume: 5.2g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Trichloroethene	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Vinyl Acetate	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Vinyl Chloride	ND (0.0105)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Xylene O	ND (0.0052)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Xylene P,M	ND (0.0105)		8260B Low		1	07/24/23 13:52	D3G0412	DG32425
Xylenes (Total)	ND (0.0105)		8260B Low		1	07/24/23 13:52		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-303C
 Date Sampled: 07/21/23 11:10
 Percent Solids: 92
 Initial Volume: 20.2g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
4,4'-DDE	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
4,4'-DDT	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Aldrin	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
alpha-BHC	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
alpha-Chlordane	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
beta-BHC	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Chlordane (Total)	ND (0.0323)		8081B		1	07/29/23 14:03	D3G0491	DG32412
delta-BHC	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Dieldrin	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Endosulfan I	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Endosulfan II	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Endrin	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Endrin Aldehyde	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Endrin Ketone	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 14:03	D3G0491	DG32412
gamma-Chlordane	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Heptachlor	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Hexachlorobenzene	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Methoxychlor	ND (0.0027)		8081B		1	07/29/23 14:03	D3G0491	DG32412
Toxaphene	ND (0.135)		8081B		1	07/29/23 14:03	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>95 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>89 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>87 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>86 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92
Initial Volume: 20.1g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1221	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1232	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1242	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1248	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1254	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1260	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1262	ND (0.05)		8082A		1	07/26/23 13:57		DG32502
Aroclor 1268	ND (0.05)		8082A		1	07/26/23 13:57		DG32502

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	65 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	87 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92
Initial Volume: 19.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.7)		8100M		1	07/29/23 1:05		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		78 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92
Initial Volume: 20.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/28/23 19:40	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.06)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2-Chloronaphthalene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2-Chlorophenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2-Methylnaphthalene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2-Methylphenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2-Nitroaniline	ND (0.530)		8270D		1	07/28/23 19:40	D3G0506	DG32454
2-Nitrophenol	ND (0.530)		8270D		1	07/28/23 19:40	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
3+4-Methylphenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
3-Nitroaniline	ND (0.530)		8270D		1	07/28/23 19:40	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.06)		8270D		1	07/28/23 19:40	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
4-Chloroaniline	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
4-Nitroaniline	ND (0.530)		8270D		1	07/28/23 19:40	D3G0506	DG32454
4-Nitrophenol	ND (1.06)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Acenaphthene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Acenaphthylene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Acetophenone	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92
Initial Volume: 20.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Anthracene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Azobenzene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Benzo(a)anthracene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Benzo(a)pyrene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Benzoic Acid	ND (2.65)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Benzyl Alcohol	ND (0.530)		8270D		1	07/28/23 19:40	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Butylbenzylphthalate	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Carbazole	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Chrysene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Dibenzofuran	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Diethylphthalate	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Dimethylphthalate	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Di-n-butylphthalate	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Di-n-octylphthalate	ND (0.530)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Fluoranthene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Fluorene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Hexachlorobenzene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Hexachlorobutadiene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.530)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Hexachloroethane	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Isophorone	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Naphthalene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-303C
 Date Sampled: 07/21/23 11:10
 Percent Solids: 92
 Initial Volume: 20.5g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Pentachlorophenol	ND (1.06)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Phenanthrene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Phenol	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Pyrene	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454
Pyridine	ND (0.265)		8270D		1	07/28/23 19:40	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	88 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	91 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	84 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	90 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	85 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	92 %		30-130
<i>Surrogate: Phenol-d6</i>	91 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	90 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10
Percent Solids: 92

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 206 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.14 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 22.0 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303C
Date Sampled: 07/21/23 11:10

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-01
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	5.73 (2.32)		6010C		1	CEV	07/28/23 19:38	2.37	100	DG32723
Barium	50.3 (2.32)		6010C		1	CEV	07/28/23 19:38	2.37	100	DG32723
Cadmium	ND (0.46)		6010C		1	CEV	07/28/23 19:38	2.37	100	DG32723
Chromium	12.4 (0.93)		6010C		1	CEV	07/28/23 19:38	2.37	100	DG32723
Lead	165 (4.65)		6010C		1	CEV	07/28/23 19:38	2.37	100	DG32723
Mercury	7.05 (1.76)		7471B		50	BJV	07/27/23 13:34	0.62	40	DG32713
Selenium	ND (4.65)		6010C		1	CEV	07/28/23 19:38	2.37	100	DG32723
Silver	ND (0.46)		6010C		1	CEV	07/28/23 19:38	2.37	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91
Initial Volume: 5.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1,4-Dioxane	ND (0.108)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
1-Chlorohexane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
2-Butanone	ND (0.0540)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
2-Chlorotoluene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
2-Hexanone	ND (0.0540)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
4-Chlorotoluene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0540)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Acetone	ND (0.0540)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Benzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Bromobenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91
Initial Volume: 5.1g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Bromodichloromethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Bromoform	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Bromomethane	ND (0.0108)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Carbon Disulfide	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Chlorobenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Chloroethane	ND (0.0108)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Chloroform	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Chloromethane	ND (0.0108)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Dibromochloromethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Dibromomethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0108)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Diethyl Ether	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Di-isopropyl ether	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Ethylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Isopropylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Methylene Chloride	ND (0.0270)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Naphthalene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
n-Butylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
n-Propylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
sec-Butylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Styrene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
tert-Butylbenzene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Tetrachloroethene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Tetrahydrofuran	ND (0.0216)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-303D
 Date Sampled: 07/21/23 11:20
 Percent Solids: 91
 Initial Volume: 5.1g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-02
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Trichloroethene	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Vinyl Acetate	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Vinyl Chloride	ND (0.0108)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Xylene O	ND (0.0054)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Xylene P,M	ND (0.0108)		8260B Low		1	07/24/23 14:18	D3G0412	DG32425
Xylenes (Total)	ND (0.0108)		8260B Low		1	07/24/23 14:18		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>100 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91
Initial Volume: 19.4g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
4,4'-DDE [2C]	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
4,4'-DDT [2C]	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Aldrin	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
alpha-BHC	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
alpha-Chlordane [2C]	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
beta-BHC	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Chlordane (Total)	ND (0.0341)		8081B		1	07/29/23 14:33	D3G0491	DG32412
delta-BHC	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Dieldrin	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Endosulfan I	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Endosulfan II	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Endrin	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Endrin Aldehyde	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Endrin Ketone	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 14:33	D3G0491	DG32412
gamma-Chlordane	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Heptachlor	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Hexachlorobenzene	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Methoxychlor	ND (0.0028)		8081B		1	07/29/23 14:33	D3G0491	DG32412
Toxaphene	ND (0.142)		8081B		1	07/29/23 14:33	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>91 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>87 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>80 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>82 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91
Initial Volume: 20.4g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1221	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1232	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1242	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1248	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1254	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1260	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1262	ND (0.05)		8082A		1	07/26/23 13:37		DG32502
Aroclor 1268	ND (0.05)		8082A		1	07/26/23 13:37		DG32502

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	65 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	89 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	76 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	90 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91
Initial Volume: 19.7g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	429 (83.9)		8100M		2	07/31/23 22:13		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		85 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-303D
 Date Sampled: 07/21/23 11:20
 Percent Solids: 91
 Initial Volume: 20.5g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-02
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/28/23 20:10	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.07)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2-Chloronaphthalene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2-Chlorophenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2-Methylnaphthalene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2-Methylphenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2-Nitroaniline	ND (0.537)		8270D		1	07/28/23 20:10	D3G0506	DG32454
2-Nitrophenol	ND (0.537)		8270D		1	07/28/23 20:10	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
3+4-Methylphenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
3-Nitroaniline	ND (0.537)		8270D		1	07/28/23 20:10	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.07)		8270D		1	07/28/23 20:10	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
4-Chloroaniline	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
4-Nitroaniline	ND (0.537)		8270D		1	07/28/23 20:10	D3G0506	DG32454
4-Nitrophenol	ND (1.07)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Acenaphthene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Acenaphthylene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Acetophenone	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91
Initial Volume: 20.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Anthracene	0.275 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Azobenzene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Benzo(a)anthracene	0.486 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Benzo(a)pyrene	0.459 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Benzo(b)fluoranthene	0.351 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Benzo(k)fluoranthene	0.361 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Benzoic Acid	ND (2.69)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Benzyl Alcohol	ND (0.537)		8270D		1	07/28/23 20:10	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Butylbenzylphthalate	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Carbazole	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Chrysene	0.507 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Dibenzofuran	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Diethylphthalate	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Dimethylphthalate	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Di-n-butylphthalate	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Di-n-octylphthalate	ND (0.537)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Fluoranthene	1.36 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Fluorene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Hexachlorobenzene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Hexachlorobutadiene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.537)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Hexachloroethane	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	0.294 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Isophorone	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Naphthalene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91
Initial Volume: 20.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Pentachlorophenol	ND (1.07)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Phenanthrene	0.989 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Phenol	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Pyrene	1.03 (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454
Pyridine	ND (0.269)		8270D		1	07/28/23 20:10	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>91 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>93 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>85 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>90 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>92 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>90 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20
Percent Solids: 91

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 248 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.98 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.9 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-303D
Date Sampled: 07/21/23 11:20

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-02
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.81 (2.38)		6010C		1	CEV	07/28/23 19:40	2.31	100	DG32723
Barium	75.9 (2.38)		6010C		1	CEV	07/28/23 19:40	2.31	100	DG32723
Cadmium	0.51 (0.48)		6010C		1	CEV	07/28/23 19:40	2.31	100	DG32723
Chromium	15.8 (1.90)		6010C		2	CEV	07/31/23 12:03	2.31	100	DG32723
Lead	187 (9.51)		6010C		2	CEV	07/31/23 12:03	2.31	100	DG32723
Mercury	0.075 (0.036)		7471B		1	BJV	07/27/23 13:00	0.61	40	DG32713
Selenium	ND (0.48)		6020A		1	BJV	07/31/23 14:27	2.31	100	DG32723
Silver	ND (0.95)		6010C		2	CEV	07/31/23 12:03	2.31	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1,4-Dioxane	ND (0.102)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
1-Chlorohexane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
2-Butanone	ND (0.0509)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
2-Chlorotoluene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
2-Hexanone	ND (0.0509)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
4-Chlorotoluene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0509)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Acetone	ND (0.0509)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Benzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Bromobenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Bromodichloromethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Bromoform	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Bromomethane	ND (0.0102)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Carbon Disulfide	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Chlorobenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Chloroethane	ND (0.0102)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Chloroform	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Chloromethane	ND (0.0102)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Dibromochloromethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Dibromomethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0102)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Diethyl Ether	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Di-isopropyl ether	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Ethylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Isopropylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Methylene Chloride	ND (0.0254)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Naphthalene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
n-Butylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
n-Propylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
sec-Butylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Styrene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
tert-Butylbenzene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Tetrachloroethene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Tetrahydrofuran	ND (0.0203)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 5.4g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Trichloroethene	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Vinyl Acetate	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Vinyl Chloride	ND (0.0102)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Xylene O	ND (0.0051)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Xylene P,M	ND (0.0102)		8260B Low		1	07/24/23 14:43	D3G0412	DG32425
Xylenes (Total)	ND (0.0102)		8260B Low		1	07/24/23 14:43		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 20.9g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
4,4'-DDE	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
4,4'-DDT	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Aldrin	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
alpha-BHC	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
alpha-Chlordane [2C]	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
beta-BHC	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Chlordane (Total)	ND (0.0315)		8081B		1	07/29/23 15:04	D3G0491	DG32412
delta-BHC	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Dieldrin	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Endosulfan I	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Endosulfan II	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Endrin	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Endrin Aldehyde	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Endrin Ketone	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 15:04	D3G0491	DG32412
gamma-Chlordane	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Heptachlor	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Hexachlorobenzene	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Methoxychlor	ND (0.0026)		8081B		1	07/29/23 15:04	D3G0491	DG32412
Toxaphene	ND (0.131)		8081B		1	07/29/23 15:04	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>91 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>89 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>85 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>85 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 20.4g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1221	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1232	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1242	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1248	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1254	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1260	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1262	ND (0.05)		8082A		1	07/26/23 12:00		DG32503
Aroclor 1268	ND (0.05)		8082A		1	07/26/23 12:00		DG32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	85 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	82 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	83 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 19.9g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (41.4)		8100M		1	07/29/23 11:24		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		71 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/28/23 20:41	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.08)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2-Chloronaphthalene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2-Chlorophenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2-Methylnaphthalene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2-Methylphenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2-Nitroaniline	ND (0.539)		8270D		1	07/28/23 20:41	D3G0506	DG32454
2-Nitrophenol	ND (0.539)		8270D		1	07/28/23 20:41	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
3+4-Methylphenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
3-Nitroaniline	ND (0.539)		8270D		1	07/28/23 20:41	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.08)		8270D		1	07/28/23 20:41	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
4-Chloroaniline	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
4-Nitroaniline	ND (0.539)		8270D		1	07/28/23 20:41	D3G0506	DG32454
4-Nitrophenol	ND (1.08)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Acenaphthene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Acenaphthylene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Acetophenone	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Anthracene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Azobenzene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Benzo(a)anthracene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Benzo(a)pyrene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Benzoic Acid	ND (2.69)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Benzyl Alcohol	ND (0.539)		8270D		1	07/28/23 20:41	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Butylbenzylphthalate	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Carbazole	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Chrysene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Dibenzofuran	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Diethylphthalate	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Dimethylphthalate	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Di-n-butylphthalate	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Di-n-octylphthalate	ND (0.539)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Fluoranthene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Fluorene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Hexachlorobenzene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Hexachlorobutadiene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.539)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Hexachloroethane	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Isophorone	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Naphthalene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Pentachlorophenol	ND (1.08)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Phenanthrene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Phenol	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Pyrene	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454
Pyridine	ND (0.269)		8270D		1	07/28/23 20:41	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>94 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>94 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>92 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>95 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>86 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>99 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>99 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>93 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00
Percent Solids: 91

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 409 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.53 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.9 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304A
Date Sampled: 07/21/23 13:00

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-03
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.63 (2.39)		6010C		1	CEV	07/28/23 19:42	2.33	100	DG32723
Barium	48.8 (2.39)		6010C		1	CEV	07/28/23 19:42	2.33	100	DG32723
Cadmium	ND (0.48)		6010C		1	CEV	07/28/23 19:42	2.33	100	DG32723
Chromium	14.9 (0.96)		6010C		1	CEV	07/28/23 19:42	2.33	100	DG32723
Lead	74.7 (4.78)		6010C		1	CEV	07/28/23 19:42	2.33	100	DG32723
Mercury	0.050 (0.034)		7471B		1	BJV	07/27/23 13:06	0.65	40	DG32713
Selenium	ND (4.78)		6010C		1	CEV	07/28/23 19:42	2.33	100	DG32723
Silver	ND (0.48)		6010C		1	CEV	07/28/23 19:42	2.33	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1,4-Dioxane	ND (0.0977)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
1-Chlorohexane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
2-Butanone	ND (0.0489)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
2-Chlorotoluene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
2-Hexanone	ND (0.0489)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
4-Chlorotoluene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0489)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Acetone	ND (0.0489)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Benzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Bromobenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Bromodichloromethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Bromoform	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Bromomethane	ND (0.0098)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Carbon Disulfide	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Chlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Chloroethane	ND (0.0098)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Chloroform	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Chloromethane	ND (0.0098)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Dibromochloromethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Dibromomethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0098)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Diethyl Ether	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Di-isopropyl ether	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Ethylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Isopropylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Methylene Chloride	ND (0.0244)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Naphthalene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
n-Butylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
n-Propylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
sec-Butylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Styrene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
tert-Butylbenzene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Tetrachloroethene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Tetrahydrofuran	ND (0.0195)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Trichloroethene	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Vinyl Acetate	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Vinyl Chloride	ND (0.0098)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Xylene O	ND (0.0049)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Xylene P,M	ND (0.0098)		8260B Low		1	07/24/23 15:09	D3G0412	DG32425
Xylenes (Total)	ND (0.00977)		8260B Low		1	07/24/23 15:09		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>107 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>101 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 20.9g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
4,4'-DDE	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
4,4'-DDT	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Aldrin	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
alpha-BHC	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
alpha-Chlordane	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
beta-BHC	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Chlordane (Total)	ND (0.0320)		8081B		1	07/29/23 15:34	D3G0491	DG32412
delta-BHC	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Dieldrin	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Endosulfan I	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Endosulfan II	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Endrin	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Endrin Aldehyde	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Endrin Ketone	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 15:34	D3G0491	DG32412
gamma-Chlordane	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Heptachlor	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Hexachlorobenzene	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Methoxychlor	ND (0.0027)		8081B		1	07/29/23 15:34	D3G0491	DG32412
Toxaphene	ND (0.133)		8081B		1	07/29/23 15:34	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>85 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>81 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>78 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>77 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 20.2g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1221	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1232	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1242	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1248	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1254	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1260	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1262	ND (0.06)		8082A		1	07/26/23 12:20		DG32503
Aroclor 1268	ND (0.06)		8082A		1	07/26/23 12:20		DG32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	90 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	85 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	73 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	80 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 19.5g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	110 (42.8)		8100M		1	07/29/23 8:34		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		77 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/28/23 21:11	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.11)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2-Chloronaphthalene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2-Chlorophenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2-Methylnaphthalene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2-Methylphenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2-Nitroaniline	ND (0.554)		8270D		1	07/28/23 21:11	D3G0506	DG32454
2-Nitrophenol	ND (0.554)		8270D		1	07/28/23 21:11	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
3+4-Methylphenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
3-Nitroaniline	ND (0.554)		8270D		1	07/28/23 21:11	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.11)		8270D		1	07/28/23 21:11	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
4-Chloroaniline	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
4-Nitroaniline	ND (0.554)		8270D		1	07/28/23 21:11	D3G0506	DG32454
4-Nitrophenol	ND (1.11)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Acenaphthene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Acenaphthylene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Acetophenone	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Anthracene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Azobenzene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Benzo(a)anthracene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Benzo(a)pyrene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Benzoic Acid	ND (2.77)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Benzyl Alcohol	ND (0.554)		8270D		1	07/28/23 21:11	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Butylbenzylphthalate	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Carbazole	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Chrysene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Dibenzofuran	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Diethylphthalate	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Dimethylphthalate	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Di-n-butylphthalate	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Di-n-octylphthalate	ND (0.554)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Fluoranthene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Fluorene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Hexachlorobenzene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Hexachlorobutadiene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.554)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Hexachloroethane	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Isophorone	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Naphthalene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-304B
 Date Sampled: 07/21/23 13:10
 Percent Solids: 90
 Initial Volume: 20.1g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-04
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Pentachlorophenol	ND (1.11)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Phenanthrene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Phenol	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Pyrene	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454
Pyridine	ND (0.277)		8270D		1	07/28/23 21:11	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>91 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>95 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>96 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>88 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>98 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>96 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>98 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 264 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.57 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.8 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304B
Date Sampled: 07/21/23 13:10

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-04
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.42 (2.49)		6010C		1	CEV	07/28/23 19:44	2.23	100	DG32723
Barium	37.0 (2.49)		6010C		1	CEV	07/28/23 19:44	2.23	100	DG32723
Cadmium	ND (0.50)		6010C		1	CEV	07/28/23 19:44	2.23	100	DG32723
Chromium	13.2 (1.00)		6010C		1	CEV	07/28/23 19:44	2.23	100	DG32723
Lead	46.1 (4.99)		6010C		1	CEV	07/28/23 19:44	2.23	100	DG32723
Mercury	ND (0.034)		7471B		1	BJV	07/27/23 13:08	0.64	40	DG32713
Selenium	ND (4.99)		6010C		1	CEV	07/28/23 19:44	2.23	100	DG32723
Silver	ND (0.50)		6010C		1	CEV	07/28/23 19:44	2.23	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 5.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1,4-Dioxane	ND (0.0943)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
1-Chlorohexane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
2-Butanone	ND (0.0471)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
2-Chlorotoluene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
2-Hexanone	ND (0.0471)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
4-Chlorotoluene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0471)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Acetone	ND (0.0471)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Benzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Bromobenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 5.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Bromodichloromethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Bromoform	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Bromomethane	ND (0.0094)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Carbon Disulfide	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Chlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Chloroethane	ND (0.0094)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Chloroform	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Chloromethane	ND (0.0094)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Dibromochloromethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Dibromomethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0094)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Diethyl Ether	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Di-isopropyl ether	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Ethylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Isopropylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Methylene Chloride	ND (0.0236)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Naphthalene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
n-Butylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
n-Propylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
sec-Butylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Styrene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
tert-Butylbenzene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Tetrachloroethene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Tetrahydrofuran	ND (0.0189)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 5.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Trichloroethene	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Vinyl Acetate	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Vinyl Chloride	ND (0.0094)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Xylene O	ND (0.0047)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Xylene P,M	ND (0.0094)		8260B Low		1	07/24/23 15:34	D3G0412	DG32425
Xylenes (Total)	ND (0.00943)		8260B Low		1	07/24/23 15:34		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 20.9g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
4,4'-DDE	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
4,4'-DDT	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Aldrin	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
alpha-BHC	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
alpha-Chlordane	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
beta-BHC	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Chlordane (Total)	ND (0.0319)		8081B		1	07/29/23 16:04	D3G0491	DG32412
delta-BHC	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Dieldrin [2C]	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Endosulfan I	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Endosulfan II	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Endrin	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Endrin Aldehyde	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Endrin Ketone	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	07/29/23 16:04	D3G0491	DG32412
gamma-Chlordane	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Heptachlor	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Hexachlorobenzene	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Methoxychlor	ND (0.0027)		8081B		1	07/29/23 16:04	D3G0491	DG32412
Toxaphene	ND (0.133)		8081B		1	07/29/23 16:04	D3G0491	DG32412

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>94 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>89 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>83 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>82 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 19.9g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1221	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1232	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1242	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1248	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1254	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1260	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1262	ND (0.06)		8082A		1	07/26/23 12:40		DG32503
Aroclor 1268	ND (0.06)		8082A		1	07/26/23 12:40		DG32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	79 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	68 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 19.3g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/21/23 18:27

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (43.2)		8100M		1	07/29/23 12:07		DG32147
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		75 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/28/23 21:42	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.14)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2-Chloronaphthalene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2-Chlorophenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2-Methylnaphthalene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2-Methylphenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2-Nitroaniline	ND (0.568)		8270D		1	07/28/23 21:42	D3G0506	DG32454
2-Nitrophenol	ND (0.568)		8270D		1	07/28/23 21:42	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
3+4-Methylphenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
3-Nitroaniline	ND (0.568)		8270D		1	07/28/23 21:42	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.14)		8270D		1	07/28/23 21:42	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
4-Chloroaniline	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
4-Nitroaniline	ND (0.568)		8270D		1	07/28/23 21:42	D3G0506	DG32454
4-Nitrophenol	ND (1.14)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Acenaphthene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Acenaphthylene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Acetophenone	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Anthracene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Azobenzene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Benzo(a)anthracene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Benzo(a)pyrene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Benzoic Acid	ND (2.84)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Benzyl Alcohol	ND (0.568)		8270D		1	07/28/23 21:42	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Butylbenzylphthalate	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Carbazole	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Chrysene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Dibenzofuran	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Diethylphthalate	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Dimethylphthalate	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Di-n-butylphthalate	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Di-n-octylphthalate	ND (0.568)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Fluoranthene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Fluorene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Hexachlorobenzene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Hexachlorobutadiene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.568)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Hexachloroethane	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Isophorone	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Naphthalene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-304C
 Date Sampled: 07/21/23 11:40
 Percent Solids: 90
 Initial Volume: 19.6g
 Final Volume: 1ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-05
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: IBM
 Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Pentachlorophenol	ND (1.14)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Phenanthrene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Phenol	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Pyrene	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454
Pyridine	ND (0.284)		8270D		1	07/28/23 21:42	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	92 %		30-130
<i>Surrogate: 2,4,6-Tribromophenol</i>	99 %		30-130
<i>Surrogate: 2-Chlorophenol-d4</i>	91 %		30-130
<i>Surrogate: 2-Fluorobiphenyl</i>	97 %		30-130
<i>Surrogate: 2-Fluorophenol</i>	90 %		30-130
<i>Surrogate: Nitrobenzene-d5</i>	101 %		30-130
<i>Surrogate: Phenol-d6</i>	97 %		30-130
<i>Surrogate: p-Terphenyl-d14</i>	98 %		30-130



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40
Percent Solids: 90

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 232 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.48 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.8 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304C
Date Sampled: 07/21/23 11:40

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-05
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	7.13 (2.47)		6010C		1	CEV	07/28/23 19:46	2.23	100	DG32723
Barium	87.8 (2.47)		6010C		1	CEV	07/28/23 19:46	2.23	100	DG32723
Cadmium	ND (0.49)		6010C		1	CEV	07/28/23 19:46	2.23	100	DG32723
Chromium	18.1 (1.98)		6010C		2	CEV	07/31/23 12:05	2.23	100	DG32723
Lead	208 (9.88)		6010C		2	CEV	07/31/23 12:05	2.23	100	DG32723
Mercury	0.093 (0.036)		7471B		1	BJV	07/27/23 13:10	0.61	40	DG32713
Selenium	ND (0.49)		6020A		1	BJV	07/31/23 14:33	2.23	100	DG32723
Silver	ND (0.99)		6010C		2	CEV	07/31/23 12:05	2.23	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1,4-Dioxane	ND (0.0949)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
1-Chlorohexane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
2-Butanone	ND (0.0475)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
2-Chlorotoluene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
2-Hexanone	ND (0.0475)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
4-Chlorotoluene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0475)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Acetone	ND (0.0475)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Benzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Bromobenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Bromodichloromethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Bromoform	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Bromomethane	ND (0.0095)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Carbon Disulfide	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Chlorobenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Chloroethane	ND (0.0095)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Chloroform	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Chloromethane	ND (0.0095)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Dibromochloromethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Dibromomethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0095)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Diethyl Ether	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Di-isopropyl ether	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Ethylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Isopropylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Methylene Chloride	ND (0.0237)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Naphthalene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
n-Butylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
n-Propylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
sec-Butylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Styrene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
tert-Butylbenzene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Tetrachloroethene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Tetrahydrofuran	ND (0.0190)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 5.8g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Trichloroethene	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Vinyl Acetate	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Vinyl Chloride	ND (0.0095)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Xylene O	ND (0.0047)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Xylene P,M	ND (0.0095)		8260B Low		1	07/24/23 16:00	D3G0412	DG32425
Xylenes (Total)	ND (0.00949)		8260B Low		1	07/24/23 16:00		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>115 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>109 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 19g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/24/23 12:05

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
4,4'-DDE	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
4,4'-DDT	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Aldrin	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
alpha-BHC	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
alpha-Chlordane [2C]	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
beta-BHC	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Chlordane (Total)	ND (0.0348)		8081B		1	07/29/23 16:34	D3G0491	DG32412
delta-BHC	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Dieldrin	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Endosulfan I	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Endosulfan II	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Endosulfan Sulfate	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Endrin	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Endrin Aldehyde	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Endrin Ketone	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 16:34	D3G0491	DG32412
gamma-Chlordane [2C]	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Heptachlor	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Heptachlor Epoxide	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Hexachlorobenzene	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Methoxychlor	ND (0.0029)		8081B		1	07/29/23 16:34	D3G0491	DG32412
Toxaphene	ND (0.145)		8081B		1	07/29/23 16:34	D3G0491	DG32412

	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>
Surrogate: Decachlorobiphenyl	88 %		30-150
Surrogate: Decachlorobiphenyl [2C]	83 %		30-150
Surrogate: Tetrachloro-m-xylene	76 %		30-150
Surrogate: Tetrachloro-m-xylene [2C]	75 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 20.3g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1221	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1232	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1242	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1248	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1254	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1260	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1262	ND (0.05)		8082A		1	07/26/23 13:00		DG32503
Aroclor 1268	ND (0.05)		8082A		1	07/26/23 13:00		DG32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	76 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	74 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	68 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	74 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/24/23 20:39

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (40.5)		8100M		1	07/29/23 12:49		DG32472
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		83 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/28/23 22:12	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.10)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2-Chloronaphthalene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2-Chlorophenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2-Methylnaphthalene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2-Methylphenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2-Nitroaniline	ND (0.548)		8270D		1	07/28/23 22:12	D3G0506	DG32454
2-Nitrophenol	ND (0.548)		8270D		1	07/28/23 22:12	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
3+4-Methylphenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
3-Nitroaniline	ND (0.548)		8270D		1	07/28/23 22:12	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.10)		8270D		1	07/28/23 22:12	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
4-Chloroaniline	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
4-Nitroaniline	ND (0.548)		8270D		1	07/28/23 22:12	D3G0506	DG32454
4-Nitrophenol	ND (1.10)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Acenaphthene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Acenaphthylene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Acetophenone	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Anthracene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Azobenzene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Benzo(a)anthracene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Benzo(a)pyrene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Benzoic Acid	ND (2.74)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Benzyl Alcohol	ND (0.548)		8270D		1	07/28/23 22:12	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Butylbenzylphthalate	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Carbazole	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Chrysene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Dibenzofuran	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Diethylphthalate	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Dimethylphthalate	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Di-n-butylphthalate	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Di-n-octylphthalate	ND (0.548)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Fluoranthene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Fluorene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Hexachlorobenzene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Hexachlorobutadiene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.548)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Hexachloroethane	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Isophorone	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Naphthalene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Pentachlorophenol	ND (1.10)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Phenanthrene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Phenol	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Pyrene	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454
Pyridine	ND (0.274)		8270D		1	07/28/23 22:12	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>94 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>85 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>93 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>88 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>102 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>94 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50
Percent Solids: 91

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 349 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.82 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.7 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-304D
Date Sampled: 07/21/23 11:50

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-06
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.41 (2.59)		6010C		1	CEV	07/28/23 19:48	2.1	100	DG32723
Barium	45.9 (2.59)		6010C		1	CEV	07/28/23 19:48	2.1	100	DG32723
Cadmium	ND (0.52)		6010C		1	CEV	07/28/23 19:48	2.1	100	DG32723
Chromium	13.8 (1.03)		6010C		1	CEV	07/28/23 19:48	2.1	100	DG32723
Lead	83.0 (5.17)		6010C		1	CEV	07/28/23 19:48	2.1	100	DG32723
Mercury	ND (0.035)		7471B		1	BJV	07/27/23 13:12	0.61	40	DG32713
Selenium	ND (5.17)		6010C		1	CEV	07/28/23 19:48	2.1	100	DG32723
Silver	ND (0.52)		6010C		1	CEV	07/28/23 19:48	2.1	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-305C
 Date Sampled: 07/21/23 12:00
 Percent Solids: 92
 Initial Volume: 5.7g
 Final Volume: 10ml
 Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-07
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1,4-Dioxane	ND (0.0953)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
1-Chlorohexane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
2-Butanone	ND (0.0476)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
2-Chlorotoluene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
2-Hexanone	ND (0.0476)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
4-Chlorotoluene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0476)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Acetone	ND (0.0476)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Benzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Bromobenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Bromodichloromethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Bromoform	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Bromomethane	ND (0.0095)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Carbon Disulfide	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Chlorobenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Chloroethane	ND (0.0095)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Chloroform	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Chloromethane	ND (0.0095)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Dibromochloromethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Dibromomethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0095)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Diethyl Ether	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Di-isopropyl ether	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Ethylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Isopropylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Methylene Chloride	ND (0.0238)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Naphthalene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
n-Butylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
n-Propylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
sec-Butylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Styrene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
tert-Butylbenzene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Tetrachloroethene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Tetrahydrofuran	ND (0.0191)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Trichloroethene	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Vinyl Acetate	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Vinyl Chloride	ND (0.0095)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Xylene O	ND (0.0048)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Xylene P,M	ND (0.0095)		8260B Low		1	07/24/23 16:25	D3G0412	DG32425
Xylenes (Total)	ND (0.00953)		8260B Low		1	07/24/23 16:25		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>120 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>112 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>92 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 19.7g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 7/26/23 10:00

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
4,4'-DDE	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
4,4'-DDT	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Aldrin	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
alpha-BHC	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
alpha-Chlordane	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
beta-BHC	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Chlordane (Total)	ND (0.0331)		8081B		1	07/29/23 17:04	D3G0491	DG32604
delta-BHC	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Dieldrin	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Endosulfan I	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Endosulfan II	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Endosulfan Sulfate	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Endrin	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Endrin Aldehyde	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Endrin Ketone	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 17:04	D3G0491	DG32604
gamma-Chlordane	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Heptachlor	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Heptachlor Epoxide	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Hexachlorobenzene	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Methoxychlor	ND (0.0028)		8081B		1	07/29/23 17:04	D3G0491	DG32604
Toxaphene	ND (0.138)		8081B		1	07/29/23 17:04	D3G0491	DG32604

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	80 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	68 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	64 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 20.3g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1221	ND (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1232	ND (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1242	ND (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1248	ND (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1254	ND (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1260	0.07 (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1262	ND (0.05)		8082A		1	07/26/23 13:20		DG32503
Aroclor 1268	ND (0.05)		8082A		1	07/26/23 13:20		DG32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	82 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	79 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	70 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	75 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 20.1g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/24/23 20:39

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (40.5)		8100M		1	07/29/23 13:33		DG32472
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		74 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 19.8g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.027)		8270D		1	07/28/23 22:43	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.10)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2-Chloronaphthalene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2-Chlorophenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2-Methylnaphthalene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2-Methylphenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2-Nitroaniline	ND (0.549)		8270D		1	07/28/23 22:43	D3G0506	DG32454
2-Nitrophenol	ND (0.549)		8270D		1	07/28/23 22:43	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
3+4-Methylphenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
3-Nitroaniline	ND (0.549)		8270D		1	07/28/23 22:43	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.10)		8270D		1	07/28/23 22:43	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
4-Chloroaniline	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
4-Nitroaniline	ND (0.549)		8270D		1	07/28/23 22:43	D3G0506	DG32454
4-Nitrophenol	ND (1.10)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Acenaphthene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Acenaphthylene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Acetophenone	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 19.8g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Anthracene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Azobenzene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Benzo(a)anthracene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Benzo(a)pyrene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Benzoic Acid	ND (2.74)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Benzyl Alcohol	ND (0.549)		8270D		1	07/28/23 22:43	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Butylbenzylphthalate	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Carbazole	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Chrysene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Dibenzofuran	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Diethylphthalate	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Dimethylphthalate	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Di-n-butylphthalate	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Di-n-octylphthalate	ND (0.549)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Fluoranthene	0.388 (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Fluorene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Hexachlorobenzene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Hexachlorobutadiene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.549)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Hexachloroethane	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Isophorone	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Naphthalene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92
Initial Volume: 19.8g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Pentachlorophenol	ND (1.10)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Phenanthrene	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Phenol	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Pyrene	0.297 (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454
Pyridine	ND (0.274)		8270D		1	07/28/23 22:43	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>83 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>82 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>80 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>83 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>78 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>88 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>85 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>84 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00
Percent Solids: 92

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 242 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.76 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.7 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305C
Date Sampled: 07/21/23 12:00

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-07
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	6.84 (2.77)		6010C		1	CEV	07/28/23 19:50	2.01	100	DG32723
Barium	34.5 (2.77)		6010C		1	CEV	07/28/23 19:50	2.01	100	DG32723
Cadmium	ND (0.55)		6010C		1	CEV	07/28/23 19:50	2.01	100	DG32723
Chromium	13.8 (1.11)		6010C		1	CEV	07/28/23 19:50	2.01	100	DG32723
Lead	40.4 (5.55)		6010C		1	CEV	07/28/23 19:50	2.01	100	DG32723
Mercury	ND (0.034)		7471B		1	BJV	07/27/23 13:14	0.65	40	DG32713
Selenium	ND (5.55)		6010C		1	CEV	07/28/23 19:50	2.01	100	DG32723
Silver	ND (0.55)		6010C		1	CEV	07/28/23 19:50	2.01	100	DG32723



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,1,1-Trichloroethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,1,2,2-Tetrachloroethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,1,2-Trichloroethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,1-Dichloroethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,1-Dichloroethene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,1-Dichloropropene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2,3-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2,3-Trichloropropane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2,4-Trichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2,4-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2-Dibromo-3-Chloropropane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2-Dibromoethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2-Dichloroethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,3,5-Trimethylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,3-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,3-Dichloropropane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,4-Dichlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1,4-Dioxane	ND (0.0978)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
1-Chlorohexane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
2,2-Dichloropropane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
2-Butanone	ND (0.0489)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
2-Chlorotoluene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
2-Hexanone	ND (0.0489)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
4-Chlorotoluene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
4-Isopropyltoluene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
4-Methyl-2-Pentanone	ND (0.0489)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Acetone	ND (0.0489)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Benzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Bromobenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Bromodichloromethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Bromoform	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Bromomethane	ND (0.0098)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Carbon Disulfide	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Carbon Tetrachloride	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Chlorobenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Chloroethane	ND (0.0098)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Chloroform	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Chloromethane	ND (0.0098)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
cis-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
cis-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Dibromochloromethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Dibromomethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Dichlorodifluoromethane	ND (0.0098)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Diethyl Ether	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Di-isopropyl ether	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Ethyl tertiary-butyl ether	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Ethylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Hexachlorobutadiene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Isopropylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Methyl tert-Butyl Ether	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Methylene Chloride	ND (0.0245)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Naphthalene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
n-Butylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
n-Propylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
sec-Butylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Styrene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
tert-Butylbenzene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Tertiary-amyl methyl ether	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Tetrachloroethene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Tetrahydrofuran	ND (0.0196)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 5.7g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
trans-1,2-Dichloroethene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
trans-1,3-Dichloropropene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Trichloroethene	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Trichlorofluoromethane	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Vinyl Acetate	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Vinyl Chloride	ND (0.0098)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Xylene O	ND (0.0049)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Xylene P,M	ND (0.0098)		8260B Low		1	07/24/23 16:51	D3G0412	DG32425
Xylenes (Total)	ND (0.00978)		8260B Low		1	07/24/23 16:51		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>116 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>93 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization
 Client Sample ID: DISP-305D
 Date Sampled: 07/21/23 12:10
 Percent Solids: 90
 Initial Volume: 19.5g
 Final Volume: 5ml
 Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
 ESS Laboratory Sample ID: 23G0712-08
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: DMC
 Prepared: 7/26/23 10:00

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
4,4'-DDE	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
4,4'-DDT	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Aldrin	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
alpha-BHC	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
alpha-Chlordane	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
beta-BHC	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Chlordane (Total)	ND (0.0343)		8081B		1	07/29/23 17:34	D3G0491	DG32604
delta-BHC	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Dieldrin	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Endosulfan I	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Endosulfan II	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Endosulfan Sulfate	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Endrin	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Endrin Aldehyde	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Endrin Ketone	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
gamma-BHC (Lindane)	ND (0.0017)		8081B		1	07/29/23 17:34	D3G0491	DG32604
gamma-Chlordane	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Heptachlor	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Heptachlor Epoxide	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Hexachlorobenzene	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Methoxychlor	ND (0.0029)		8081B		1	07/29/23 17:34	D3G0491	DG32604
Toxaphene	ND (0.143)		8081B		1	07/29/23 17:34	D3G0491	DG32604

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	<i>99 %</i>		<i>30-150</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>93 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>103 %</i>		<i>30-150</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>100 %</i>		<i>30-150</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 20.5g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JLG
Prepared: 7/25/23 10:25

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1221	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1232	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1242	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1248	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1254	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1260	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1262	ND (0.05)		8082A		1	07/26/23 13:40		DG32503
Aroclor 1268	ND (0.05)		8082A		1	07/26/23 13:40		DG32503

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	87 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	81 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	76 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	83 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 19.6g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 7/24/23 20:39

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (42.7)		8100M		1	07/29/23 9:17		DG32472
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		79 %		40-140				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	07/28/23 23:13	D3G0506	DG32454
1,2,4-Trichlorobenzene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
1,2-Dichlorobenzene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
1,3-Dichlorobenzene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
1,4-Dichlorobenzene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,3,4,6-Tetrachlorophenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,4,5-Trichlorophenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,4,6-Trichlorophenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,4-Dichlorophenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,4-Dimethylphenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,4-Dinitrophenol	ND (1.12)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,4-Dinitrotoluene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2,6-Dinitrotoluene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2-Chloronaphthalene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2-Chlorophenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2-Methylnaphthalene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2-Methylphenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2-Nitroaniline	ND (0.558)		8270D		1	07/28/23 23:13	D3G0506	DG32454
2-Nitrophenol	ND (0.558)		8270D		1	07/28/23 23:13	D3G0506	DG32454
3,3'-Dichlorobenzidine	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
3+4-Methylphenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
3-Nitroaniline	ND (0.558)		8270D		1	07/28/23 23:13	D3G0506	DG32454
4,6-Dinitro-2-Methylphenol	ND (1.12)		8270D		1	07/28/23 23:13	D3G0506	DG32454
4-Bromophenyl-phenylether	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
4-Chloro-3-Methylphenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
4-Chloroaniline	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
4-Chloro-phenyl-phenyl ether	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
4-Nitroaniline	ND (0.558)		8270D		1	07/28/23 23:13	D3G0506	DG32454
4-Nitrophenol	ND (1.12)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Acenaphthene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Acenaphthylene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Acetophenone	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Anthracene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Azobenzene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Benzo(a)anthracene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Benzo(a)pyrene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Benzo(b)fluoranthene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Benzo(g,h,i)perylene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Benzo(k)fluoranthene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Benzoic Acid	ND (2.79)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Benzyl Alcohol	ND (0.558)		8270D		1	07/28/23 23:13	D3G0506	DG32454
bis(2-Chloroethoxy)methane	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
bis(2-Chloroethyl)ether	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
bis(2-chloroisopropyl)Ether	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
bis(2-Ethylhexyl)phthalate	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Butylbenzylphthalate	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Carbazole	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Chrysene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Dibenzo(a,h)Anthracene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Dibenzofuran	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Diethylphthalate	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Dimethylphthalate	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Di-n-butylphthalate	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Di-n-octylphthalate	ND (0.558)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Fluoranthene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Fluorene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Hexachlorobenzene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Hexachlorobutadiene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Hexachlorocyclopentadiene	ND (0.558)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Hexachloroethane	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Indeno(1,2,3-cd)Pyrene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Isophorone	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Naphthalene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90
Initial Volume: 20g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil
Units: mg/kg dry
Analyst: IBM
Prepared: 7/24/23 16:35

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
N-Nitrosodimethylamine	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
N-Nitroso-Di-n-Propylamine	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
N-nitrosodiphenylamine	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Pentachlorophenol	ND (1.12)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Phenanthrene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Phenol	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Pyrene	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454
Pyridine	ND (0.279)		8270D		1	07/28/23 23:13	D3G0506	DG32454

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>94 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>88 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>92 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>89 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>95 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>95 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>95 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10
Percent Solids: 90

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 151 (5)		9050A		1	CCP	07/24/23 16:00	umhos/cm	DG32445
Corrosivity (pH)	7.31 (N/A)		9045		1	JLK	07/21/23 20:13	S.U.	DG32153
Corrosivity (pH) Sample Temp	Soil pH measured in water at 21.7 °C.								
Flashpoint	> 200 (N/A)		1010A		1	EEM	07/24/23 14:50	°F	DG32422



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-305D
Date Sampled: 07/21/23 12:10

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-08
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-101A
Date Sampled: 07/21/23 07:50

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-09
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-101B
Date Sampled: 07/21/23 09:45

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-10
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-101C-D
Date Sampled: 07/21/23 11:00

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-11
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-102A
Date Sampled: 07/21/23 07:50

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-12
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-103A
Date Sampled: 07/21/23 07:40

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-13
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-104A
Date Sampled: 07/21/23 07:35

ESS Laboratory Work Order: 23G0712
ESS Laboratory Sample ID: 23G0712-14
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DG32713 - 7471B

Blank										
Mercury	ND	0.031	mg/kg wet							
LCS										
Mercury	18.9	3.19	mg/kg wet	18.20		104	80-120			
LCS Dup										
Mercury	19.5	3.00	mg/kg wet	18.20		107	80-120	3	30	

Batch DG32723 - 3050B

Blank										
Arsenic	ND	1.94	mg/kg wet							
Barium	ND	1.94	mg/kg wet							
Cadmium	ND	0.39	mg/kg wet							
Chromium	ND	0.78	mg/kg wet							
Lead	ND	3.88	mg/kg wet							
Selenium	ND	3.88	mg/kg wet							
Silver	ND	0.39	mg/kg wet							
Blank										
Selenium	ND	0.39	mg/kg wet							
LCS										
Arsenic	68.7	8.33	mg/kg wet	65.20		105	80-120			
Barium	708	8.33	mg/kg wet	626.0		113	80-120			
Cadmium	106	1.67	mg/kg wet	118.0		90	80-120			
Chromium	143	3.33	mg/kg wet	159.0		90	80-120			
Lead	223	16.7	mg/kg wet	230.0		97	80-120			
Selenium	49.1	16.7	mg/kg wet	55.70		88	80-120			
Silver	47.0	1.67	mg/kg wet	46.20		102	80-120			
LCS										
Selenium	57.5	8.33	mg/kg wet	55.70		103	80-120			
LCS Dup										
Arsenic	65.4	8.06	mg/kg wet	65.20		100	80-120	5	30	
Barium	600	8.06	mg/kg wet	626.0		96	80-120	16	30	
Cadmium	97.3	1.61	mg/kg wet	118.0		82	80-120	8	30	
Chromium	133	3.23	mg/kg wet	159.0		83	80-120	8	30	
Lead	211	16.1	mg/kg wet	230.0		92	80-120	6	20	
Selenium	47.4	16.1	mg/kg wet	55.70		85	80-120	4	30	
Silver	44.1	1.61	mg/kg wet	46.20		96	80-120	6	30	
LCS Dup										
Selenium	56.7	8.06	mg/kg wet	55.70		102	80-120	1	30	

5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

Blank										
1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
1-Chlorohexane	ND	0.0050	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0533		mg/kg wet	0.05000		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.0467		mg/kg wet	0.05000		93	70-130			
Surrogate: Dibromofluoromethane	0.0505		mg/kg wet	0.05000		101	70-130			
Surrogate: Toluene-d8	0.0466		mg/kg wet	0.05000		93	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
1,1,1-Trichloroethane	0.0570	0.0050	mg/kg wet	0.05000		114	70-130			
1,1,2,2-Tetrachloroethane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,1,2-Trichloroethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
1,1-Dichloroethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
1,1-Dichloroethene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
1,1-Dichloropropene	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
1,2,3-Trichlorobenzene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
1,2,3-Trichloropropane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
1,2,4-Trichlorobenzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
1,2,4-Trimethylbenzene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130			
1,2-Dibromo-3-Chloropropane	0.0559	0.0050	mg/kg wet	0.05000		112	70-130			
1,2-Dibromoethane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

1,2-Dichlorobenzene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
1,2-Dichloroethane	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichloropropane	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
1,3,5-Trimethylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
1,3-Dichlorobenzene	0.0436	0.0050	mg/kg wet	0.05000		87	70-130			
1,3-Dichloropropane	0.0466	0.0050	mg/kg wet	0.05000		93	70-130			
1,4-Dichlorobenzene	0.0468	0.0050	mg/kg wet	0.05000		94	70-130			
1,4-Dioxane	1.01	0.100	mg/kg wet	1.000		101	70-130			
1-Chlorohexane	0.0464	0.0050	mg/kg wet	0.05000		93	70-130			
2,2-Dichloropropane	0.0615	0.0050	mg/kg wet	0.05000		123	70-130			
2-Butanone	0.244	0.0500	mg/kg wet	0.2500		98	70-130			
2-Chlorotoluene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
2-Hexanone	0.236	0.0500	mg/kg wet	0.2500		94	70-130			
4-Chlorotoluene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
4-Isopropyltoluene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
4-Methyl-2-Pentanone	0.241	0.0500	mg/kg wet	0.2500		96	70-130			
Acetone	0.245	0.0500	mg/kg wet	0.2500		98	70-130			
Benzene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Bromobenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Bromochloromethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Bromodichloromethane	0.0479	0.0050	mg/kg wet	0.05000		96	70-130			
Bromoform	0.0579	0.0050	mg/kg wet	0.05000		116	70-130			
Bromomethane	0.0424	0.0100	mg/kg wet	0.05000		85	70-130			
Carbon Disulfide	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Carbon Tetrachloride	0.0619	0.0050	mg/kg wet	0.05000		124	70-130			
Chlorobenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Chloroethane	0.0480	0.0100	mg/kg wet	0.05000		96	70-130			
Chloroform	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Chloromethane	0.0415	0.0100	mg/kg wet	0.05000		83	70-130			
cis-1,2-Dichloroethene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130			
cis-1,3-Dichloropropene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130			
Dibromochloromethane	0.0576	0.0050	mg/kg wet	0.05000		115	70-130			
Dibromomethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Dichlorodifluoromethane	0.0401	0.0100	mg/kg wet	0.05000		80	70-130			
Diethyl Ether	0.0489	0.0050	mg/kg wet	0.05000		98	70-130			
Di-isopropyl ether	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Ethyl tertiary-butyl ether	0.0550	0.0050	mg/kg wet	0.05000		110	70-130			
Ethylbenzene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
Hexachlorobutadiene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
Isopropylbenzene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
Methyl tert-Butyl Ether	0.0519	0.0050	mg/kg wet	0.05000		104	70-130			
Methylene Chloride	0.0478	0.0250	mg/kg wet	0.05000		96	70-130			
Naphthalene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
n-Butylbenzene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
n-Propylbenzene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

sec-Butylbenzene	0.0428	0.0050	mg/kg wet	0.05000		86	70-130			
Styrene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
tert-Butylbenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Tertiary-amyl methyl ether	0.0573	0.0050	mg/kg wet	0.05000		115	70-130			
Tetrachloroethene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Tetrahydrofuran	0.0455	0.0200	mg/kg wet	0.05000		91	70-130			
Toluene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130			
trans-1,2-Dichloroethene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
trans-1,3-Dichloropropene	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Trichloroethene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Trichlorofluoromethane	0.0473	0.0050	mg/kg wet	0.05000		95	70-130			
Vinyl Acetate	0.0587	0.0050	mg/kg wet	0.05000		117	70-130			
Vinyl Chloride	0.0448	0.0100	mg/kg wet	0.05000		90	70-130			
Xylene O	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Xylene P,M	0.0939	0.0100	mg/kg wet	0.1000		94	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0468		mg/kg wet	0.05000		94	70-130			
Surrogate: 4-Bromofluorobenzene	0.0492		mg/kg wet	0.05000		98	70-130			
Surrogate: Dibromofluoromethane	0.0478		mg/kg wet	0.05000		96	70-130			
Surrogate: Toluene-d8	0.0467		mg/kg wet	0.05000		93	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0593	0.0050	mg/kg wet	0.05000		119	70-130	6	25	
1,1,1-Trichloroethane	0.0584	0.0050	mg/kg wet	0.05000		117	70-130	2	25	
1,1,2,2-Tetrachloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
1,1,2-Trichloroethane	0.0480	0.0050	mg/kg wet	0.05000		96	70-130	4	25	
1,1-Dichloroethane	0.0470	0.0050	mg/kg wet	0.05000		94	70-130	4	25	
1,1-Dichloroethene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
1,1-Dichloropropene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
1,2,3-Trichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
1,2,3-Trichloropropane	0.0508	0.0050	mg/kg wet	0.05000		102	70-130	2	25	
1,2,4-Trichlorobenzene	0.0471	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
1,2,4-Trimethylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	3	25	
1,2-Dibromo-3-Chloropropane	0.0561	0.0050	mg/kg wet	0.05000		112	70-130	0.5	25	
1,2-Dibromoethane	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	7	25	
1,2-Dichlorobenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
1,2-Dichloroethane	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
1,2-Dichloropropane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130	5	25	
1,3,5-Trimethylbenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
1,3-Dichlorobenzene	0.0448	0.0050	mg/kg wet	0.05000		90	70-130	3	25	
1,3-Dichloropropane	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
1,4-Dichlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	1	25	
1,4-Dioxane	1.08	0.100	mg/kg wet	1.000		108	70-130	6	20	
1-Chlorohexane	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	6	25	
2,2-Dichloropropane	0.0631	0.0050	mg/kg wet	0.05000		126	70-130	3	25	
2-Butanone	0.252	0.0500	mg/kg wet	0.2500		101	70-130	3	25	
2-Chlorotoluene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	2	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

2-Hexanone	0.248	0.0500	mg/kg wet	0.2500		99	70-130	5	25	
4-Chlorotoluene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130	4	25	
4-Isopropyltoluene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
4-Methyl-2-Pentanone	0.249	0.0500	mg/kg wet	0.2500		100	70-130	3	25	
Acetone	0.251	0.0500	mg/kg wet	0.2500		100	70-130	2	25	
Benzene	0.0479	0.0050	mg/kg wet	0.05000		96	70-130	4	25	
Bromobenzene	0.0467	0.0050	mg/kg wet	0.05000		93	70-130	4	25	
Bromochloromethane	0.0500	0.0050	mg/kg wet	0.05000		100	70-130	3	25	
Bromodichloromethane	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	3	25	
Bromoform	0.0592	0.0050	mg/kg wet	0.05000		118	70-130	2	25	
Bromomethane	0.0438	0.0100	mg/kg wet	0.05000		88	70-130	3	25	
Carbon Disulfide	0.0505	0.0050	mg/kg wet	0.05000		101	70-130	3	25	
Carbon Tetrachloride	0.0638	0.0050	mg/kg wet	0.05000		128	70-130	3	25	
Chlorobenzene	0.0474	0.0050	mg/kg wet	0.05000		95	70-130	5	25	
Chloroethane	0.0494	0.0100	mg/kg wet	0.05000		99	70-130	3	25	
Chloroform	0.0484	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
Chloromethane	0.0436	0.0100	mg/kg wet	0.05000		87	70-130	5	25	
cis-1,2-Dichloroethene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	4	25	
cis-1,3-Dichloropropene	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Dibromochloromethane	0.0607	0.0050	mg/kg wet	0.05000		121	70-130	5	25	
Dibromomethane	0.0489	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Dichlorodifluoromethane	0.0411	0.0100	mg/kg wet	0.05000		82	70-130	2	25	
Diethyl Ether	0.0513	0.0050	mg/kg wet	0.05000		103	70-130	5	25	
Di-isopropyl ether	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	4	25	
Ethyl tertiary-butyl ether	0.0577	0.0050	mg/kg wet	0.05000		115	70-130	5	25	
Ethylbenzene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	6	25	
Hexachlorobutadiene	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Isopropylbenzene	0.0464	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
Methyl tert-Butyl Ether	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	4	25	
Methylene Chloride	0.0494	0.0250	mg/kg wet	0.05000		99	70-130	3	25	
Naphthalene	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	2	25	
n-Butylbenzene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
n-Propylbenzene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
sec-Butylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
Styrene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	5	25	
tert-Butylbenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	25	
Tertiary-amyl methyl ether	0.0594	0.0050	mg/kg wet	0.05000		119	70-130	4	25	
Tetrachloroethene	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	5	25	
Tetrahydrofuran	0.0472	0.0200	mg/kg wet	0.05000		94	70-130	4	25	
Toluene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	3	25	
trans-1,2-Dichloroethene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	4	25	
trans-1,3-Dichloropropene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	3	25	
Trichloroethene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
Trichlorofluoromethane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130	3	25	
Vinyl Acetate	0.0623	0.0050	mg/kg wet	0.05000		125	70-130	6	25	



CERTIFICATE OF ANALYSIS

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ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DG32425 - 5035

Vinyl Chloride	0.0469	0.0100	mg/kg wet	0.05000		94	70-130	5	25	
Xylene O	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	6	25	
Xylene P,M	0.0995	0.0100	mg/kg wet	0.1000		100	70-130	6	25	
Surrogate: 1,2-Dichloroethane-d4	0.0476		mg/kg wet	0.05000		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0501		mg/kg wet	0.05000		100	70-130			
Surrogate: Dibromofluoromethane	0.0484		mg/kg wet	0.05000		97	70-130			
Surrogate: Toluene-d8	0.0478		mg/kg wet	0.05000		96	70-130			

8081B Organochlorine Pesticides

Batch DG32412 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Aldehyde	ND	0.0025	mg/kg wet							
Endrin Aldehyde [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32412 - 3546

Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0132		mg/kg wet	0.01250		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0125		mg/kg wet	0.01250		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.0132		mg/kg wet	0.01250		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0137		mg/kg wet	0.01250		109	30-150			

LCS

4,4'-DDD	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
4,4'-DDD [2C]	0.0139	0.0025	mg/kg wet	0.01250		111	40-140			
4,4'-DDE	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
4,4'-DDE [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
4,4'-DDT	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
4,4'-DDT [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Aldrin	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Aldrin [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
alpha-BHC	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
alpha-BHC [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
alpha-Chlordane	0.0117	0.0025	mg/kg wet	0.01250		94	40-140			
alpha-Chlordane [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
beta-BHC	0.0116	0.0025	mg/kg wet	0.01250		92	40-140			
beta-BHC [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
delta-BHC	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
delta-BHC [2C]	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
Dieldrin	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Dieldrin [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140			
Endosulfan I	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			
Endosulfan I [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan II	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan II [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endosulfan Sulfate	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Endosulfan Sulfate [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Endrin [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Endrin Aldehyde	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endrin Aldehyde [2C]	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Endrin Ketone	0.0132	0.0025	mg/kg wet	0.01250		105	40-140			
Endrin Ketone [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
gamma-BHC (Lindane)	0.0123	0.0015	mg/kg wet	0.01250		98	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081B Organochlorine Pesticides										
Batch DG32412 - 3546										
gamma-BHC (Lindane) [2C]	0.0131	0.0015	mg/kg wet	0.01250		105	40-140			
gamma-Chlordane	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
gamma-Chlordane [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
Heptachlor	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Heptachlor [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Heptachlor Epoxide	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Heptachlor Epoxide [2C]	0.0127	0.0025	mg/kg wet	0.01250		101	40-140			
Hexachlorobenzene	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Hexachlorobenzene [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Methoxychlor	0.0128	0.0025	mg/kg wet	0.01250		102	40-140			
Methoxychlor [2C]	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0132</i>		mg/kg wet	<i>0.01250</i>		<i>106</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0126</i>		mg/kg wet	<i>0.01250</i>		<i>101</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0138</i>		mg/kg wet	<i>0.01250</i>		<i>110</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0143</i>		mg/kg wet	<i>0.01250</i>		<i>114</i>	<i>30-150</i>			
LCS Dup										
4,4'-DDD	0.0143	0.0025	mg/kg wet	0.01250		114	40-140	7	30	
4,4'-DDD [2C]	0.0148	0.0025	mg/kg wet	0.01250		118	40-140	6	30	
4,4'-DDE	0.0139	0.0025	mg/kg wet	0.01250		111	40-140	6	30	
4,4'-DDE [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	5	30	
4,4'-DDT	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	7	30	
4,4'-DDT [2C]	0.0141	0.0025	mg/kg wet	0.01250		113	40-140	8	30	
Aldrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	0.8	30	
Aldrin [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	1	30	
alpha-BHC	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	2	30	
alpha-BHC [2C]	0.0132	0.0025	mg/kg wet	0.01250		106	40-140	0.6	30	
alpha-Chlordane	0.0122	0.0025	mg/kg wet	0.01250		98	40-140	4	30	
alpha-Chlordane [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	4	30	
beta-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140	2	30	
beta-BHC [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	0.02	30	
delta-BHC	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	4	30	
delta-BHC [2C]	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	5	30	
Dieldrin	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	5	30	
Dieldrin [2C]	0.0144	0.0025	mg/kg wet	0.01250		116	40-140	5	30	
Endosulfan I	0.0115	0.0025	mg/kg wet	0.01250		92	40-140	3	30	
Endosulfan I [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140	5	30	
Endosulfan II	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	6	30	
Endosulfan II [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	6	30	
Endosulfan Sulfate	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	6	30	
Endosulfan Sulfate [2C]	0.0134	0.0025	mg/kg wet	0.01250		108	40-140	7	30	
Endrin	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	5	30	
Endrin [2C]	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	6	30	
Endrin Aldehyde	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	4	30	
Endrin Aldehyde [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	5	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32412 - 3546

Endrin Ketone	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	6	30	
Endrin Ketone [2C]	0.0138	0.0025	mg/kg wet	0.01250		111	40-140	6	30	
gamma-BHC (Lindane)	0.0125	0.0015	mg/kg wet	0.01250		100	40-140	2	30	
gamma-BHC (Lindane) [2C]	0.0133	0.0015	mg/kg wet	0.01250		106	40-140	2	30	
gamma-Chlordane	0.0142	0.0025	mg/kg wet	0.01250		113	40-140	4	30	
gamma-Chlordane [2C]	0.0146	0.0025	mg/kg wet	0.01250		117	40-140	4	30	
Heptachlor	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	0.5	30	
Heptachlor [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	2	30	
Heptachlor Epoxide	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	3	30	
Heptachlor Epoxide [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	3	30	
Hexachlorobenzene	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	0.5	30	
Hexachlorobenzene [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	0.4	30	
Methoxychlor	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	6	30	
Methoxychlor [2C]	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	7	30	
Surrogate: Decachlorobiphenyl	0.0135		mg/kg wet	0.01250		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0129		mg/kg wet	0.01250		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.0131		mg/kg wet	0.01250		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0135		mg/kg wet	0.01250		108	30-150			

Batch DG32604 - 3546

Blank										
4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32604 - 3546

Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Aldehyde	ND	0.0025	mg/kg wet							
Endrin Aldehyde [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0128		mg/kg wet	0.01250		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0122		mg/kg wet	0.01250		98	30-150			
Surrogate: Tetrachloro-m-xylene	0.0130		mg/kg wet	0.01250		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0135		mg/kg wet	0.01250		108	30-150			

LCS

4,4'-DDD	0.0137	0.0025	mg/kg wet	0.01250		110	40-140			
4,4'-DDD [2C]	0.0141	0.0025	mg/kg wet	0.01250		112	40-140			
4,4'-DDE	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
4,4'-DDE [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
4,4'-DDT	0.0135	0.0025	mg/kg wet	0.01250		108	40-140			
4,4'-DDT [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
Aldrin	0.0123	0.0025	mg/kg wet	0.01250		99	40-140			
Aldrin [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
alpha-BHC	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
alpha-BHC [2C]	0.0124	0.0025	mg/kg wet	0.01250		100	40-140			
alpha-Chlordane	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
alpha-Chlordane [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
beta-BHC	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
beta-BHC [2C]	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
delta-BHC	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
delta-BHC [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140			
Dieldrin	0.0133	0.0025	mg/kg wet	0.01250		107	40-140			
Dieldrin [2C]	0.0138	0.0025	mg/kg wet	0.01250		111	40-140			
Endosulfan I	0.0113	0.0025	mg/kg wet	0.01250		91	40-140			
Endosulfan I [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan II	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32604 - 3546

Endosulfan II [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140			
Endosulfan Sulfate	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
Endosulfan Sulfate [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Endrin	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Endrin [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Endrin Aldehyde	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
Endrin Aldehyde [2C]	0.0119	0.0025	mg/kg wet	0.01250		95	40-140			
Endrin Ketone	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
Endrin Ketone [2C]	0.0134	0.0025	mg/kg wet	0.01250		108	40-140			
gamma-BHC (Lindane)	0.0124	0.0015	mg/kg wet	0.01250		99	40-140			
gamma-BHC (Lindane) [2C]	0.0124	0.0015	mg/kg wet	0.01250		99	40-140			
gamma-Chlordane	0.0138	0.0025	mg/kg wet	0.01250		110	40-140			
gamma-Chlordane [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140			
Heptachlor	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Heptachlor [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Heptachlor Epoxide	0.0121	0.0025	mg/kg wet	0.01250		97	40-140			
Heptachlor Epoxide [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Hexachlorobenzene	0.0118	0.0025	mg/kg wet	0.01250		95	40-140			
Hexachlorobenzene [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Methoxychlor	0.0131	0.0025	mg/kg wet	0.01250		105	40-140			
Methoxychlor [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			

Surrogate: Decachlorobiphenyl	0.0142		mg/kg wet	0.01250		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0136		mg/kg wet	0.01250		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.0136		mg/kg wet	0.01250		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0140		mg/kg wet	0.01250		112	30-150			

LCS Dup

4,4'-DDD	0.0137	0.0025	mg/kg wet	0.01250		109	40-140	0.2	30	
4,4'-DDD [2C]	0.0142	0.0025	mg/kg wet	0.01250		113	40-140	0.8	30	
4,4'-DDE	0.0133	0.0025	mg/kg wet	0.01250		106	40-140	0.02	30	
4,4'-DDE [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	2	30	
4,4'-DDT	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	0.2	30	
4,4'-DDT [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	1	30	
Aldrin	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	1	30	
Aldrin [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	1	30	
alpha-BHC	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	2	30	
alpha-BHC [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	2	30	
alpha-Chlordane	0.0118	0.0025	mg/kg wet	0.01250		95	40-140	0.5	30	
alpha-Chlordane [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	1	30	
beta-BHC	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	2	30	
beta-BHC [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	1	30	
delta-BHC	0.0132	0.0025	mg/kg wet	0.01250		105	40-140	0.8	30	
delta-BHC [2C]	0.0127	0.0025	mg/kg wet	0.01250		101	40-140	1	30	
Dieldrin	0.0132	0.0025	mg/kg wet	0.01250		106	40-140	0.8	30	
Dieldrin [2C]	0.0141	0.0025	mg/kg wet	0.01250		112	40-140	2	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DG32604 - 3546

Endosulfan I	0.0113	0.0025	mg/kg wet	0.01250		91	40-140	0.2	30	
Endosulfan I [2C]	0.0124	0.0025	mg/kg wet	0.01250		100	40-140	1	30	
Endosulfan II	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	0.6	30	
Endosulfan II [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	0.9	30	
Endosulfan Sulfate	0.0134	0.0025	mg/kg wet	0.01250		108	40-140	1	30	
Endosulfan Sulfate [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	1	30	
Endrin	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	0.6	30	
Endrin [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140	1	30	
Endrin Aldehyde	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	0.9	30	
Endrin Aldehyde [2C]	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	1	30	
Endrin Ketone	0.0137	0.0025	mg/kg wet	0.01250		109	40-140	0.4	30	
Endrin Ketone [2C]	0.0135	0.0025	mg/kg wet	0.01250		108	40-140	0.2	30	
gamma-BHC (Lindane)	0.0126	0.0015	mg/kg wet	0.01250		100	40-140	2	30	
gamma-BHC (Lindane) [2C]	0.0126	0.0015	mg/kg wet	0.01250		101	40-140	2	30	
gamma-Chlordane	0.0138	0.0025	mg/kg wet	0.01250		110	40-140	0.2	30	
gamma-Chlordane [2C]	0.0142	0.0025	mg/kg wet	0.01250		114	40-140	2	30	
Heptachlor	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	2	30	
Heptachlor [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	0.8	30	
Heptachlor Epoxide	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	0.02	30	
Heptachlor Epoxide [2C]	0.0128	0.0025	mg/kg wet	0.01250		102	40-140	1	30	
Hexachlorobenzene	0.0121	0.0025	mg/kg wet	0.01250		97	40-140	2	30	
Hexachlorobenzene [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	2	30	
Methoxychlor	0.0133	0.0025	mg/kg wet	0.01250		107	40-140	2	30	
Methoxychlor [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	0.4	30	

Surrogate: Decachlorobiphenyl	0.0133		mg/kg wet	0.01250		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0127		mg/kg wet	0.01250		101	30-150			
Surrogate: Tetrachloro-m-xylene	0.0133		mg/kg wet	0.01250		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0137		mg/kg wet	0.01250		109	30-150			

8082A Polychlorinated Biphenyls (PCB)

Batch DG32502 - 3540C

Blank										
Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG32502 - 3540C

Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0180</i>		mg/kg wet	<i>0.02500</i>		<i>72</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0220</i>		mg/kg wet	<i>0.02500</i>		<i>88</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0174</i>		mg/kg wet	<i>0.02500</i>		<i>70</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0205</i>		mg/kg wet	<i>0.02500</i>		<i>82</i>	<i>30-150</i>			

LCS

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		87	40-140			
Aroclor 1016 [2C]	0.5	0.02	mg/kg wet	0.5000		97	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		80	40-140			
Aroclor 1260 [2C]	0.5	0.02	mg/kg wet	0.5000		95	40-140			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0190</i>		mg/kg wet	<i>0.02500</i>		<i>76</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0233</i>		mg/kg wet	<i>0.02500</i>		<i>93</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0205</i>		mg/kg wet	<i>0.02500</i>		<i>82</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0231</i>		mg/kg wet	<i>0.02500</i>		<i>92</i>	<i>30-150</i>			

LCS Dup

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		79	40-140	10	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		87	40-140	11	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		75	40-140	7	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		86	40-140	10	30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0169</i>		mg/kg wet	<i>0.02500</i>		<i>68</i>	<i>30-150</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.0207</i>		mg/kg wet	<i>0.02500</i>		<i>83</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0183</i>		mg/kg wet	<i>0.02500</i>		<i>73</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.0203</i>		mg/kg wet	<i>0.02500</i>		<i>81</i>	<i>30-150</i>			

Batch DG32503 - 3540C

Blank

Aroclor 1016	ND	0.05	mg/kg wet							
Aroclor 1016 [2C]	ND	0.05	mg/kg wet							
Aroclor 1221	ND	0.05	mg/kg wet							
Aroclor 1221 [2C]	ND	0.05	mg/kg wet							
Aroclor 1232	ND	0.05	mg/kg wet							
Aroclor 1232 [2C]	ND	0.05	mg/kg wet							
Aroclor 1242	ND	0.05	mg/kg wet							
Aroclor 1242 [2C]	ND	0.05	mg/kg wet							
Aroclor 1248	ND	0.05	mg/kg wet							
Aroclor 1248 [2C]	ND	0.05	mg/kg wet							
Aroclor 1254	ND	0.05	mg/kg wet							
Aroclor 1254 [2C]	ND	0.05	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DG32503 - 3540C

Aroclor 1260	ND	0.05	mg/kg wet							
Aroclor 1260 [2C]	ND	0.05	mg/kg wet							
Aroclor 1262	ND	0.05	mg/kg wet							
Aroclor 1262 [2C]	ND	0.05	mg/kg wet							
Aroclor 1268	ND	0.05	mg/kg wet							
Aroclor 1268 [2C]	ND	0.05	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0222		mg/kg wet	0.02500		89	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0212		mg/kg wet	0.02500		85	30-150			
Surrogate: Tetrachloro-m-xylene	0.0187		mg/kg wet	0.02500		75	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0203		mg/kg wet	0.02500		81	30-150			

LCS

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		85	40-140			
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		86	40-140			
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		89	40-140			
Surrogate: Decachlorobiphenyl	0.0227		mg/kg wet	0.02500		91	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0217		mg/kg wet	0.02500		87	30-150			
Surrogate: Tetrachloro-m-xylene	0.0203		mg/kg wet	0.02500		81	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0208		mg/kg wet	0.02500		83	30-150			

LCS Dup

Aroclor 1016	0.4	0.05	mg/kg wet	0.5000		84	40-140	3	30	
Aroclor 1016 [2C]	0.4	0.05	mg/kg wet	0.5000		82	40-140	4	30	
Aroclor 1260	0.4	0.05	mg/kg wet	0.5000		84	40-140	3	30	
Aroclor 1260 [2C]	0.4	0.05	mg/kg wet	0.5000		86	40-140	4	30	
Surrogate: Decachlorobiphenyl	0.0221		mg/kg wet	0.02500		88	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0211		mg/kg wet	0.02500		84	30-150			
Surrogate: Tetrachloro-m-xylene	0.0198		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0202		mg/kg wet	0.02500		81	30-150			

8100M Total Petroleum Hydrocarbons

Batch DG32147 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DG32147 - 3546

Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							

<i>Surrogate: O-Terphenyl</i>	<i>4.00</i>		mg/kg wet	<i>5.000</i>		<i>80</i>	<i>40-140</i>			
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LCS

Decane (C10)	1.8	0.2	mg/kg wet	2.500		74	40-140			
Docosane (C22)	1.9	0.2	mg/kg wet	2.500		78	40-140			
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Eicosane (C20)	2.0	0.2	mg/kg wet	2.500		80	40-140			
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140			
Hexadecane (C16)	1.9	0.2	mg/kg wet	2.500		78	40-140			
Nonadecane (C19)	2.2	0.2	mg/kg wet	2.500		89	40-140			
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		66	30-140			
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Octadecane (C18)	1.9	0.2	mg/kg wet	2.500		78	40-140			
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Tetradecane (C14)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Total Petroleum Hydrocarbons	28.1	37.5	mg/kg wet	35.00		80	40-140			
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		86	40-140			

<i>Surrogate: O-Terphenyl</i>	<i>3.92</i>		mg/kg wet	<i>5.000</i>		<i>78</i>	<i>40-140</i>			
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LCS Dup

Decane (C10)	1.8	0.2	mg/kg wet	2.500		72	40-140	1	25	
Docosane (C22)	1.9	0.2	mg/kg wet	2.500		77	40-140	0.8	25	
Dodecane (C12)	1.9	0.2	mg/kg wet	2.500		75	40-140	0.6	25	
Eicosane (C20)	1.9	0.2	mg/kg wet	2.500		77	40-140	3	25	
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140	0.1	25	
Hexadecane (C16)	1.9	0.2	mg/kg wet	2.500		78	40-140	0.2	25	
Nonadecane (C19)	2.2	0.2	mg/kg wet	2.500		89	40-140	0.1	25	
Nonane (C9)	1.6	0.2	mg/kg wet	2.500		64	30-140	3	25	
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		83	40-140	0.7	25	
Octadecane (C18)	1.9	0.2	mg/kg wet	2.500		78	40-140	0.2	25	
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		76	40-140	1	25	
Tetradecane (C14)	1.9	0.2	mg/kg wet	2.500		76	40-140	0.7	25	
Total Petroleum Hydrocarbons	28.0	37.5	mg/kg wet	35.00		80	40-140	0.5	25	
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		86	40-140	0.01	25	

<i>Surrogate: O-Terphenyl</i>	<i>3.95</i>		mg/kg wet	<i>5.000</i>		<i>79</i>	<i>40-140</i>			
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Batch DG32472 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DG32472 - 3546

Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacotane (C30)	ND	0.2	mg/kg wet							

<i>Surrogate: O-Terphenyl</i>	4.42		mg/kg wet	5.000		88	40-140			
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LCS

Decane (C10)	1.9	0.2	mg/kg wet	2.500		77	40-140			
Docosane (C22)	2.0	0.2	mg/kg wet	2.500		80	40-140			
Dodecane (C12)	2.0	0.2	mg/kg wet	2.500		80	40-140			
Eicosane (C20)	2.0	0.2	mg/kg wet	2.500		78	40-140			
Hexacosane (C26)	2.2	0.2	mg/kg wet	2.500		89	40-140			
Hexadecane (C16)	2.1	0.2	mg/kg wet	2.500		83	40-140			
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Nonane (C9)	1.7	0.2	mg/kg wet	2.500		68	30-140			
Octacosane (C28)	2.2	0.2	mg/kg wet	2.500		90	40-140			
Octadecane (C18)	2.0	0.2	mg/kg wet	2.500		82	40-140			
Tetracosane (C24)	2.0	0.2	mg/kg wet	2.500		80	40-140			
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		81	40-140			
Total Petroleum Hydrocarbons	30.1	37.5	mg/kg wet	35.00		86	40-140			
Triacotane (C30)	2.4	0.2	mg/kg wet	2.500		95	40-140			

<i>Surrogate: O-Terphenyl</i>	4.17		mg/kg wet	5.000		83	40-140			
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LCS Dup

Decane (C10)	1.9	0.2	mg/kg wet	2.500		75	40-140	2	25	
Docosane (C22)	2.0	0.2	mg/kg wet	2.500		80	40-140	0.1	25	
Dodecane (C12)	2.0	0.2	mg/kg wet	2.500		79	40-140	2	25	
Eicosane (C20)	2.0	0.2	mg/kg wet	2.500		80	40-140	2	25	
Hexacosane (C26)	2.2	0.2	mg/kg wet	2.500		89	40-140	0.6	25	
Hexadecane (C16)	2.0	0.2	mg/kg wet	2.500		81	40-140	2	25	
Nonadecane (C19)	2.3	0.2	mg/kg wet	2.500		91	40-140	7	25	
Nonane (C9)	1.7	0.2	mg/kg wet	2.500		66	30-140	2	25	
Octacosane (C28)	2.2	0.2	mg/kg wet	2.500		89	40-140	0.5	25	
Octadecane (C18)	2.0	0.2	mg/kg wet	2.500		80	40-140	2	25	
Tetracosane (C24)	2.0	0.2	mg/kg wet	2.500		79	40-140	1	25	
Tetradecane (C14)	2.0	0.2	mg/kg wet	2.500		79	40-140	2	25	
Total Petroleum Hydrocarbons	29.2	37.5	mg/kg wet	35.00		83	40-140	3	25	
Triacotane (C30)	2.3	0.2	mg/kg wet	2.500		93	40-140	1	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DG32472 - 3546

Surrogate: *O-Terphenyl* 4.13 mg/kg wet 5.000 83 40-140

8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

Blank

1,1-Biphenyl	ND	0.025	mg/kg wet
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet
1,2-Dichlorobenzene	ND	0.250	mg/kg wet
1,3-Dichlorobenzene	ND	0.250	mg/kg wet
1,4-Dichlorobenzene	ND	0.250	mg/kg wet
2,3,4,6-Tetrachlorophenol	ND	0.250	mg/kg wet
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet
2,4-Dichlorophenol	ND	0.250	mg/kg wet
2,4-Dimethylphenol	ND	0.250	mg/kg wet
2,4-Dinitrophenol	ND	1.00	mg/kg wet
2,4-Dinitrotoluene	ND	0.250	mg/kg wet
2,6-Dinitrotoluene	ND	0.250	mg/kg wet
2-Chloronaphthalene	ND	0.250	mg/kg wet
2-Chlorophenol	ND	0.250	mg/kg wet
2-Methylnaphthalene	ND	0.250	mg/kg wet
2-Methylphenol	ND	0.250	mg/kg wet
2-Nitroaniline	ND	0.500	mg/kg wet
2-Nitrophenol	ND	0.500	mg/kg wet
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet
3+4-Methylphenol	ND	0.250	mg/kg wet
3-Nitroaniline	ND	0.500	mg/kg wet
4,6-Dinitro-2-Methylphenol	ND	1.00	mg/kg wet
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet
4-Chloroaniline	ND	0.250	mg/kg wet
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet
4-Nitroaniline	ND	0.500	mg/kg wet
4-Nitrophenol	ND	1.00	mg/kg wet
Acenaphthene	ND	0.250	mg/kg wet
Acenaphthylene	ND	0.250	mg/kg wet
Acetophenone	ND	0.250	mg/kg wet
Aniline	ND	0.250	mg/kg wet
Anthracene	ND	0.250	mg/kg wet
Azobenzene	ND	0.250	mg/kg wet
Benzo(a)anthracene	ND	0.250	mg/kg wet
Benzo(a)pyrene	ND	0.250	mg/kg wet
Benzo(b)fluoranthene	ND	0.250	mg/kg wet
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

Benzo(k)fluoranthene	ND	0.250	mg/kg wet							
Benzoic Acid	ND	2.50	mg/kg wet							
Benzyl Alcohol	ND	0.500	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet							
Butylbenzylphthalate	ND	0.250	mg/kg wet							
Carbazole	ND	0.250	mg/kg wet							
Chrysene	ND	0.250	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.250	mg/kg wet							
Dibenzofuran	ND	0.250	mg/kg wet							
Diethylphthalate	ND	0.250	mg/kg wet							
Dimethylphthalate	ND	0.250	mg/kg wet							
Di-n-butylphthalate	ND	0.250	mg/kg wet							
Di-n-octylphthalate	ND	0.500	mg/kg wet							
Fluoranthene	ND	0.250	mg/kg wet							
Fluorene	ND	0.250	mg/kg wet							
Hexachlorobenzene	ND	0.250	mg/kg wet							
Hexachlorobutadiene	ND	0.250	mg/kg wet							
Hexachlorocyclopentadiene	ND	0.500	mg/kg wet							
Hexachloroethane	ND	0.250	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet							
Isophorone	ND	0.250	mg/kg wet							
Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet							
N-nitrosodiphenylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	1.00	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Pyridine	ND	0.250	mg/kg wet							
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2.55		mg/kg wet	2.500		102	30-130			
<i>Surrogate: 2,4,6-Tribromophenol</i>	3.90		mg/kg wet	3.750		104	30-130			
<i>Surrogate: 2-Chlorophenol-d4</i>	3.75		mg/kg wet	3.750		100	30-130			
<i>Surrogate: 2-Fluorobiphenyl</i>	2.66		mg/kg wet	2.500		106	30-130			
<i>Surrogate: 2-Fluorophenol</i>	3.66		mg/kg wet	3.750		98	30-130			
<i>Surrogate: Nitrobenzene-d5</i>	2.70		mg/kg wet	2.500		108	30-130			
<i>Surrogate: Phenol-d6</i>	3.92		mg/kg wet	3.750		105	30-130			
<i>Surrogate: p-Terphenyl-d14</i>	2.82		mg/kg wet	2.500		113	30-130			
LCS										
1,1-Biphenyl	2.58	0.025	mg/kg wet	2.500		103	40-140			
1,2,4-Trichlorobenzene	2.09	0.250	mg/kg wet	2.500		84	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

1,2-Dichlorobenzene	2.36	0.250	mg/kg wet	2.500		94	40-140			
1,3-Dichlorobenzene	2.24	0.250	mg/kg wet	2.500		90	40-140			
1,4-Dichlorobenzene	2.41	0.250	mg/kg wet	2.500		96	40-140			
2,3,4,6-Tetrachlorophenol	2.45	0.250	mg/kg wet	2.500		98	30-130			
2,4,5-Trichlorophenol	2.47	0.250	mg/kg wet	2.500		99	30-130			
2,4,6-Trichlorophenol	2.27	0.250	mg/kg wet	2.500		91	30-130			
2,4-Dichlorophenol	2.14	0.250	mg/kg wet	2.500		85	30-130			
2,4-Dimethylphenol	2.21	0.250	mg/kg wet	2.500		88	30-130			
2,4-Dinitrophenol	2.22	1.00	mg/kg wet	2.500		89	30-130			
2,4-Dinitrotoluene	2.58	0.250	mg/kg wet	2.500		103	40-140			
2,6-Dinitrotoluene	2.55	0.250	mg/kg wet	2.500		102	40-140			
2-Chloronaphthalene	2.58	0.250	mg/kg wet	2.500		103	40-140			
2-Chlorophenol	2.28	0.250	mg/kg wet	2.500		91	30-130			
2-Methylnaphthalene	2.18	0.250	mg/kg wet	2.500		87	40-140			
2-Methylphenol	2.28	0.250	mg/kg wet	2.500		91	30-130			
2-Nitroaniline	2.84	0.500	mg/kg wet	2.500		114	40-140			
2-Nitrophenol	2.16	0.500	mg/kg wet	2.500		86	30-130			
3,3'-Dichlorobenzidine	2.46	0.250	mg/kg wet	2.500		99	40-140			
3+4-Methylphenol	4.71	0.250	mg/kg wet	5.000		94	30-130			
3-Nitroaniline	2.47	0.500	mg/kg wet	2.500		99	40-140			
4,6-Dinitro-2-Methylphenol	2.94	1.00	mg/kg wet	2.500		118	30-130			
4-Bromophenyl-phenylether	2.87	0.250	mg/kg wet	2.500		115	40-140			
4-Chloro-3-Methylphenol	2.19	0.250	mg/kg wet	2.500		87	30-130			
4-Chloroaniline	1.90	0.250	mg/kg wet	2.500		76	40-140			
4-Chloro-phenyl-phenyl ether	2.59	0.250	mg/kg wet	2.500		103	40-140			
4-Nitroaniline	2.40	0.500	mg/kg wet	2.500		96	40-140			
4-Nitrophenol	1.57	1.00	mg/kg wet	2.500		63	30-130			
Acenaphthene	2.50	0.250	mg/kg wet	2.500		100	40-140			
Acenaphthylene	2.67	0.250	mg/kg wet	2.500		107	40-140			
Acetophenone	2.39	0.250	mg/kg wet	2.500		96	40-140			
Aniline	1.46	0.250	mg/kg wet	2.500		58	40-140			
Anthracene	2.71	0.250	mg/kg wet	2.500		109	40-140			
Azobenzene	2.67	0.250	mg/kg wet	2.500		107	40-140			
Benzo(a)anthracene	2.59	0.250	mg/kg wet	2.500		104	40-140			
Benzo(a)pyrene	2.87	0.250	mg/kg wet	2.500		115	40-140			
Benzo(b)fluoranthene	2.53	0.250	mg/kg wet	2.500		101	40-140			
Benzo(g,h,i)perylene	2.72	0.250	mg/kg wet	2.500		109	40-140			
Benzo(k)fluoranthene	2.62	0.250	mg/kg wet	2.500		105	40-140			
Benzoic Acid	1.31	2.50	mg/kg wet	2.500		52	40-140			
Benzyl Alcohol	1.83	0.500	mg/kg wet	2.500		73	40-140			
bis(2-Chloroethoxy)methane	2.04	0.250	mg/kg wet	2.500		82	40-140			
bis(2-Chloroethyl)ether	2.43	0.250	mg/kg wet	2.500		97	40-140			
bis(2-chloroisopropyl)Ether	2.14	0.250	mg/kg wet	2.500		85	40-140			
bis(2-Ethylhexyl)phthalate	2.63	0.250	mg/kg wet	2.500		105	40-140			
Butylbenzylphthalate	2.59	0.250	mg/kg wet	2.500		104	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

Carbazole	2.53	0.250	mg/kg wet	2.500		101	40-140			
Chrysene	2.70	0.250	mg/kg wet	2.500		108	40-140			
Dibenzo(a,h)Anthracene	2.84	0.250	mg/kg wet	2.500		114	40-140			
Dibenzofuran	2.60	0.250	mg/kg wet	2.500		104	40-140			
Diethylphthalate	2.61	0.250	mg/kg wet	2.500		105	40-140			
Dimethylphthalate	2.63	0.250	mg/kg wet	2.500		105	40-140			
Di-n-butylphthalate	2.84	0.250	mg/kg wet	2.500		114	40-140			
Di-n-octylphthalate	2.43	0.500	mg/kg wet	2.500		97	40-140			
Fluoranthene	2.80	0.250	mg/kg wet	2.500		112	40-140			
Fluorene	2.62	0.250	mg/kg wet	2.500		105	40-140			
Hexachlorobenzene	2.77	0.250	mg/kg wet	2.500		111	40-140			
Hexachlorobutadiene	2.25	0.250	mg/kg wet	2.500		90	40-140			
Hexachlorocyclopentadiene	2.47	0.500	mg/kg wet	2.500		99	40-140			
Hexachloroethane	2.33	0.250	mg/kg wet	2.500		93	40-140			
Indeno(1,2,3-cd)Pyrene	2.56	0.250	mg/kg wet	2.500		102	40-140			
Isophorone	2.11	0.250	mg/kg wet	2.500		85	40-140			
Naphthalene	2.10	0.250	mg/kg wet	2.500		84	40-140			
Nitrobenzene	2.14	0.250	mg/kg wet	2.500		85	40-140			
N-Nitrosodimethylamine	1.84	0.250	mg/kg wet	2.500		74	40-140			
N-Nitroso-Di-n-Propylamine	2.32	0.250	mg/kg wet	2.500		93	40-140			
N-nitrosodiphenylamine	2.21	0.250	mg/kg wet	2.500		88	40-140			
Pentachlorophenol	1.62	1.00	mg/kg wet	2.500		65	30-130			
Phenanthrene	2.53	0.250	mg/kg wet	2.500		101	40-140			
Phenol	2.58	0.250	mg/kg wet	2.500		103	30-130			
Pyrene	2.60	0.250	mg/kg wet	2.500		104	40-140			
Pyridine	2.44	0.250	mg/kg wet	2.500		98	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.47		mg/kg wet	2.500		99	30-130			
Surrogate: 2,4,6-Tribromophenol	4.28		mg/kg wet	3.750		114	30-130			
Surrogate: 2-Chlorophenol-d4	3.64		mg/kg wet	3.750		97	30-130			
Surrogate: 2-Fluorobiphenyl	2.78		mg/kg wet	2.500		111	30-130			
Surrogate: 2-Fluorophenol	3.42		mg/kg wet	3.750		91	30-130			
Surrogate: Nitrobenzene-d5	2.28		mg/kg wet	2.500		91	30-130			
Surrogate: Phenol-d6	3.67		mg/kg wet	3.750		98	30-130			
Surrogate: p-Terphenyl-d14	2.68		mg/kg wet	2.500		107	30-130			

LCS Dup

1,1-Biphenyl	2.52	0.025	mg/kg wet	2.500		101	40-140	2	30	
1,2,4-Trichlorobenzene	2.04	0.250	mg/kg wet	2.500		82	40-140	2	30	
1,2-Dichlorobenzene	2.24	0.250	mg/kg wet	2.500		90	40-140	5	30	
1,3-Dichlorobenzene	2.14	0.250	mg/kg wet	2.500		86	40-140	5	30	
1,4-Dichlorobenzene	2.31	0.250	mg/kg wet	2.500		92	40-140	4	30	
2,3,4,6-Tetrachlorophenol	2.52	0.250	mg/kg wet	2.500		101	30-130	3	30	
2,4,5-Trichlorophenol	2.49	0.250	mg/kg wet	2.500		99	30-130	0.8	30	
2,4,6-Trichlorophenol	2.25	0.250	mg/kg wet	2.500		90	30-130	0.6	30	
2,4-Dichlorophenol	2.14	0.250	mg/kg wet	2.500		86	30-130	0.1	30	
2,4-Dimethylphenol	2.17	0.250	mg/kg wet	2.500		87	30-130	2	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

2,4-Dinitrophenol	2.34	1.00	mg/kg wet	2.500		93	30-130	5	30	
2,4-Dinitrotoluene	2.63	0.250	mg/kg wet	2.500		105	40-140	2	30	
2,6-Dinitrotoluene	2.55	0.250	mg/kg wet	2.500		102	40-140	0.3	30	
2-Chloronaphthalene	2.52	0.250	mg/kg wet	2.500		101	40-140	2	30	
2-Chlorophenol	2.23	0.250	mg/kg wet	2.500		89	30-130	2	30	
2-Methylnaphthalene	2.14	0.250	mg/kg wet	2.500		86	40-140	2	30	
2-Methylphenol	2.29	0.250	mg/kg wet	2.500		91	30-130	0.1	30	
2-Nitroaniline	2.91	0.500	mg/kg wet	2.500		116	40-140	3	30	
2-Nitrophenol	2.11	0.500	mg/kg wet	2.500		84	30-130	2	30	
3,3'-Dichlorobenzidine	2.40	0.250	mg/kg wet	2.500		96	40-140	3	30	
3+4-Methylphenol	4.74	0.250	mg/kg wet	5.000		95	30-130	0.6	30	
3-Nitroaniline	2.44	0.500	mg/kg wet	2.500		98	40-140	1	30	
4,6-Dinitro-2-Methylphenol	2.84	1.00	mg/kg wet	2.500		114	30-130	4	30	
4-Bromophenyl-phenylether	2.85	0.250	mg/kg wet	2.500		114	40-140	0.5	30	
4-Chloro-3-Methylphenol	2.23	0.250	mg/kg wet	2.500		89	30-130	2	30	
4-Chloroaniline	1.89	0.250	mg/kg wet	2.500		76	40-140	0.5	30	
4-Chloro-phenyl-phenyl ether	2.58	0.250	mg/kg wet	2.500		103	40-140	0.3	30	
4-Nitroaniline	2.34	0.500	mg/kg wet	2.500		94	40-140	2	30	
4-Nitrophenol	1.85	1.00	mg/kg wet	2.500		74	30-130	16	30	
Acenaphthene	2.49	0.250	mg/kg wet	2.500		100	40-140	0.4	30	
Acenaphthylene	2.63	0.250	mg/kg wet	2.500		105	40-140	2	30	
Acetophenone	2.37	0.250	mg/kg wet	2.500		95	40-140	0.7	30	
Aniline	1.43	0.250	mg/kg wet	2.500		57	40-140	2	30	
Anthracene	2.67	0.250	mg/kg wet	2.500		107	40-140	1	30	
Azobenzene	2.60	0.250	mg/kg wet	2.500		104	40-140	3	30	
Benzo(a)anthracene	2.55	0.250	mg/kg wet	2.500		102	40-140	1	30	
Benzo(a)pyrene	2.83	0.250	mg/kg wet	2.500		113	40-140	1	30	
Benzo(b)fluoranthene	2.50	0.250	mg/kg wet	2.500		100	40-140	1	30	
Benzo(g,h,i)perylene	2.55	0.250	mg/kg wet	2.500		102	40-140	7	30	
Benzo(k)fluoranthene	2.59	0.250	mg/kg wet	2.500		104	40-140	1	30	
Benzoic Acid	1.45	2.50	mg/kg wet	2.500		58	40-140	10	30	
Benzyl Alcohol	1.83	0.500	mg/kg wet	2.500		73	40-140	0.5	30	
bis(2-Chloroethoxy)methane	2.02	0.250	mg/kg wet	2.500		81	40-140	1	30	
bis(2-Chloroethyl)ether	2.26	0.250	mg/kg wet	2.500		90	40-140	7	30	
bis(2-chloroisopropyl)Ether	2.12	0.250	mg/kg wet	2.500		85	40-140	0.9	30	
bis(2-Ethylhexyl)phthalate	2.60	0.250	mg/kg wet	2.500		104	40-140	0.9	30	
Butylbenzylphthalate	2.60	0.250	mg/kg wet	2.500		104	40-140	0.3	30	
Carbazole	2.51	0.250	mg/kg wet	2.500		100	40-140	0.9	30	
Chrysene	2.64	0.250	mg/kg wet	2.500		106	40-140	2	30	
Dibenzo(a,h)Anthracene	2.67	0.250	mg/kg wet	2.500		107	40-140	6	30	
Dibenzofuran	2.56	0.250	mg/kg wet	2.500		102	40-140	1	30	
Diethylphthalate	2.63	0.250	mg/kg wet	2.500		105	40-140	0.7	30	
Dimethylphthalate	2.61	0.250	mg/kg wet	2.500		105	40-140	0.6	30	
Di-n-butylphthalate	2.79	0.250	mg/kg wet	2.500		112	40-140	2	30	
Di-n-octylphthalate	2.46	0.500	mg/kg wet	2.500		98	40-140	1	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DG32454 - 3546

Fluoranthene	2.76	0.250	mg/kg wet	2.500		110	40-140	1	30	
Fluorene	2.59	0.250	mg/kg wet	2.500		104	40-140	1	30	
Hexachlorobenzene	2.78	0.250	mg/kg wet	2.500		111	40-140	0.5	30	
Hexachlorobutadiene	2.17	0.250	mg/kg wet	2.500		87	40-140	4	30	
Hexachlorocyclopentadiene	2.38	0.500	mg/kg wet	2.500		95	40-140	3	30	
Hexachloroethane	2.23	0.250	mg/kg wet	2.500		89	40-140	4	30	
Indeno(1,2,3-cd)Pyrene	2.43	0.250	mg/kg wet	2.500		97	40-140	5	30	
Isophorone	2.10	0.250	mg/kg wet	2.500		84	40-140	0.5	30	
Naphthalene	2.03	0.250	mg/kg wet	2.500		81	40-140	4	30	
Nitrobenzene	2.09	0.250	mg/kg wet	2.500		83	40-140	2	30	
N-Nitrosodimethylamine	1.77	0.250	mg/kg wet	2.500		71	40-140	4	30	
N-Nitroso-Di-n-Propylamine	2.29	0.250	mg/kg wet	2.500		92	40-140	1	30	
N-nitrosodiphenylamine	2.15	0.250	mg/kg wet	2.500		86	40-140	3	30	
Pentachlorophenol	1.64	1.00	mg/kg wet	2.500		66	30-130	1	30	
Phenanthrene	2.48	0.250	mg/kg wet	2.500		99	40-140	2	30	
Phenol	2.55	0.250	mg/kg wet	2.500		102	30-130	1	30	
Pyrene	2.57	0.250	mg/kg wet	2.500		103	40-140	1	30	
Pyridine	2.33	0.250	mg/kg wet	2.500		93	40-140	5	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.29		mg/kg wet	2.500		92	30-130			
Surrogate: 2,4,6-Tribromophenol	4.15		mg/kg wet	3.750		111	30-130			
Surrogate: 2-Chlorophenol-d4	3.48		mg/kg wet	3.750		93	30-130			
Surrogate: 2-Fluorobiphenyl	2.65		mg/kg wet	2.500		106	30-130			
Surrogate: 2-Fluorophenol	3.27		mg/kg wet	3.750		87	30-130			
Surrogate: Nitrobenzene-d5	2.25		mg/kg wet	2.500		90	30-130			
Surrogate: Phenol-d6	3.58		mg/kg wet	3.750		96	30-130			
Surrogate: p-Terphenyl-d14	2.60		mg/kg wet	2.500		104	30-130			

Classical Chemistry

Batch DG32422 - General Preparation

Reference										
Flashpoint	81		°F	81.00		100	97.9-102.1			

Batch DG32445 - General Preparation

Blank										
Conductivity	ND	5	umhos/cm							

LCS										
Conductivity	1360		umhos/cm	1411		96	90-110			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

Notes and Definitions

- Z-10c Soil pH measured in water at 22.0 °C.
- Z-10b Soil pH measured in water at 21.9 °C.
- Z-10a Soil pH measured in water at 21.8 °C.
- Z-10 Soil pH measured in water at 21.7 °C.
- Z-08 See Attached
- WL Results obtained from a deionized water leach of the sample.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- PT Pentachlorophenol tailing factor > 2.
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- CD- Continuing Calibration %Diff/Drift is below control limit (CD-).
- BT Benzidine tailing factor >2.
- > Greater than.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probable Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23G0712

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>



195 Frances Avenue
 Cranston RI, 02910
 Phone: (401)-467-6454
 Fax: (401)-467-2398
cts.thielsch.com
Let's Build a Solid Foundation

Client Information:
 Downes Construction Co.
 Providence, RI
 Project Manager: Tim Thies
 Assigned By: ESS Laboratory
 Collected By: Andrew Hook

Project Information:
Stockpile Characterization
RHS, Newport RI
 Project Number: 23G0712
 Summary Page: 1 of 2
 Report Date: 08.01.23

LABORATORY TESTING DATA SHEET, Report No.: 7423-G-193

Material Source	Sample ID	Depth (ft)	Laboratory No.	Identification Tests								Proctor / CBR / Permeability Tests							Laboratory Log and Soil Description		
				As Rcvd Moisture Content %	LL %	PL %	Gravel %	Sand %	Fines %	Org. %	pH	g_d MAX (pcf) W_{opt} (%)	g_d MAX (pcf) W_{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"		Permeability cm/sec	
				D2216	D4318	D6913			D2974	D4792	D1557										
Grab	DISP-303C	-	23G0712-01				14.1	39.7	46.2												Brown silty clayey sand
Grab	DISP-303D	-	23G0712-02				23.0	41.0	36.0												Brown silty clayey sand with gravel
Grab	DISP-304A	-	23G0712-03				19.0	37.9	43.1												Brown silty clayey sand with gravel
Grab	DISP-304B	-	23G0712-04				30.1	33.9	36.0												Brown silty clayey sand with gravel
Grab	DISP-304C	-	23G0712-05				16.9	38.1	45.0												Brown silty clayey sand with gravel
Grab	DISP-304D	-	23G0712-06				19.4	37.2	43.4												Brown silty clayey sand with gravel
Grab	DISP-305C	-	23G0712-07				14.2	40.2	45.6												Brown silty sand
Grab	DISP-305D	-	23G0712-08				16.2	39.7	44.1												Brown silty clayey sand with gravel
Grab	DISP-101A	-	23G0712-09				18.3	39.5	42.2												Brown silty clayey sand with gravel
Grab	DISP-101B	-	23G0712-10				23.4	34.0	42.6												Brown silty clayey sand with gravel

Date Received: 07.21.23

Reviewed By: 

Date Reviewed: 08.01.23

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195 Frances Avenue
 Cranston RI, 02910
 Phone: (401)-467-6454
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Let's Build a Solid Foundation

Client Information:
 Downes Construction Co.
 Providence, RI
 Project Manager: Tim Thies
 Assigned By: ESS Laboratory
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Project Information:
Stockpile Characterization
RHS, Newport RI
 Project Number: 23G0712
 Summary Page: 2 of 2
 Report Date: 08.01.23

LABORATORY TESTING DATA SHEET, Report No.: 7423-G-193

Material Source	Sample ID	Depth (ft)	Laboratory No.	Identification Tests								Proctor / CBR / Permeability Tests							Laboratory Log and Soil Description		
				As Rcvd Moisture Content %	LL %	PL %	Gravel %	Sand %	Fines %	Org. %	pH	g_d MAX (pcf) W_{opt} (%)	g_d MAX (pcf) W_{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"		Permeability cm/sec	
				D2216	D4318	D6913			D2974	D4792	D1557										
Grab	DISP-101C/D	-	23G0712-11				14.6	41.1	44.3												Brown silty clayey sand
Grab	DISP-102A	-	23G0712-12				15.7	39.3	45.0												Brown silty clayey sand with gravel
Grab	DISP-103A	-	23G0712-13				21.4	38.5	40.1												Brown silty clayey sand with gravel
Grab	DISP-104A	-	23G0712-14				33.8	32.4	33.8												Brown silty clayey gravel with sand

Date Received: 07.21.23

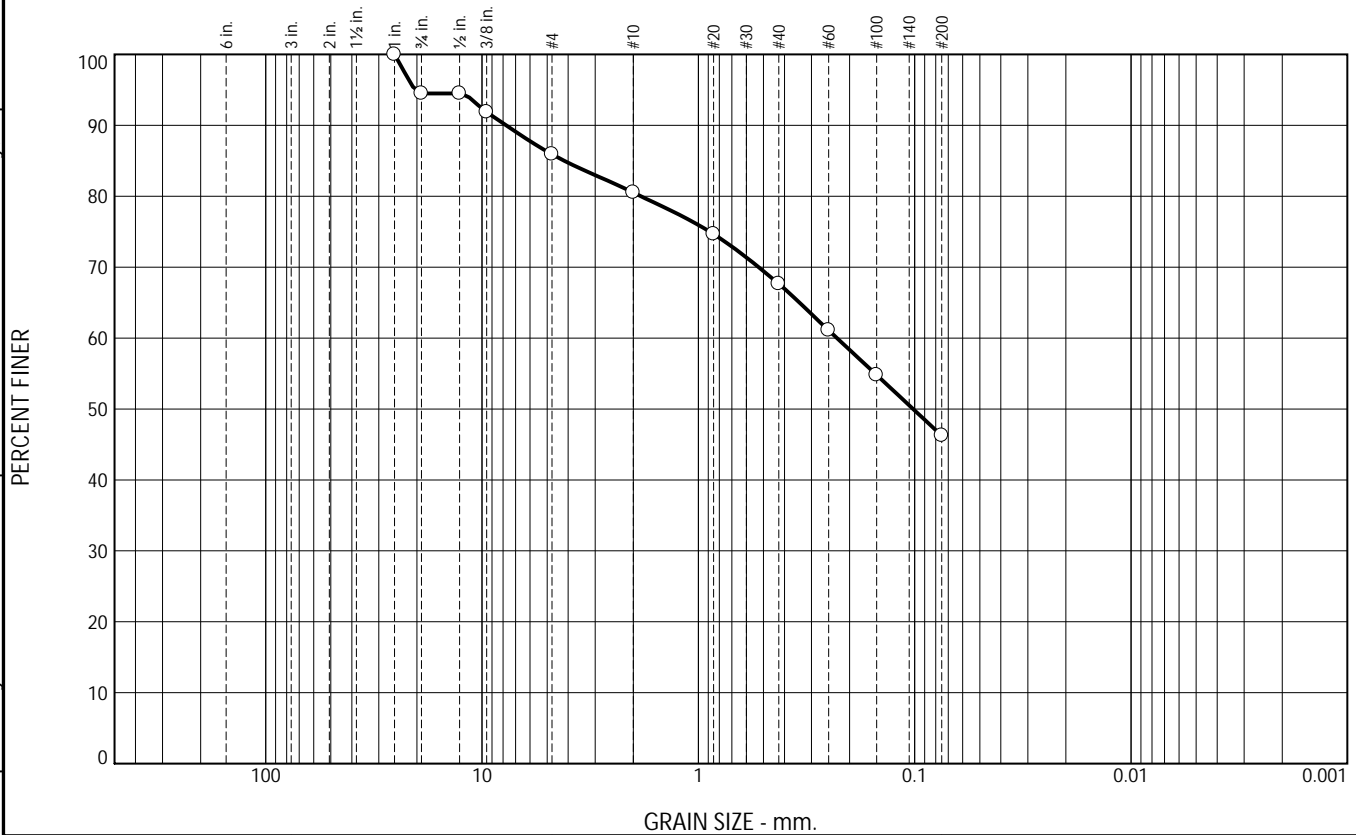
Reviewed By: 

Date Reviewed: 08.01.23

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	5.5	8.6	5.4	12.9	21.4	46.2	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	94.5		
1/2"	94.5		
3/8"	91.9		
#4	85.9		
#10	80.5		
#20	74.7		
#40	67.6		
#60	61.1		
#100	54.8		
#200	46.2		

Soil Description

Brown silty clayey sand

PL= Atterberg Limits LL= PI=

Coefficients

D₉₀= 7.7352 D₈₅= 4.1633 D₆₀= 0.2288

D₅₀= 0.1017 D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-303C

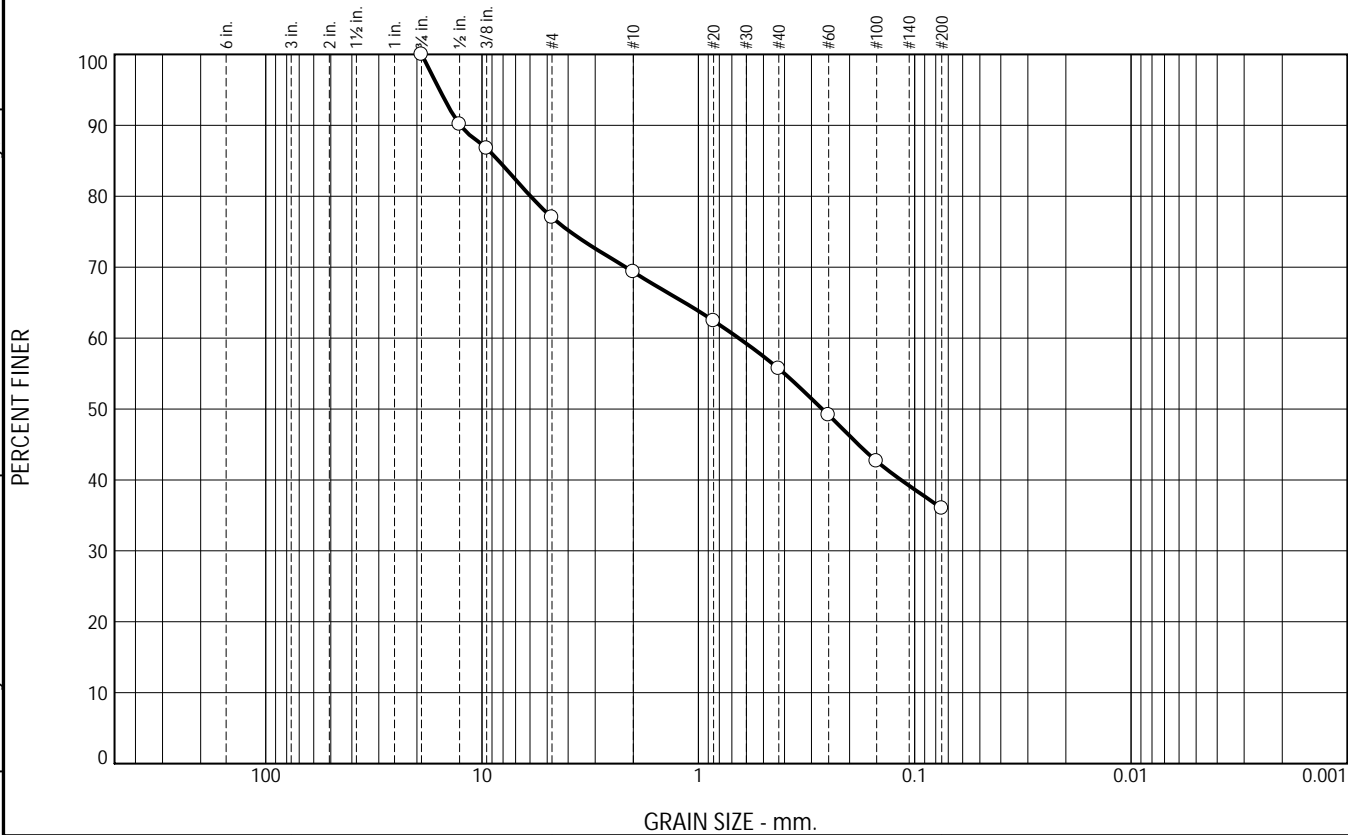
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-01	

Tested By: JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	23.0	7.7	13.6	19.7	36.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	90.1		
3/8"	86.7		
#4	77.0		
#10	69.3		
#20	62.4		
#40	55.7		
#60	49.1		
#100	42.6		
#200	36.0		

Soil Description

Brown silty clayey sand with gravel

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 12.6067 D₈₅= 8.3769 D₆₀= 0.6508
 D₅₀= 0.2677 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-303D

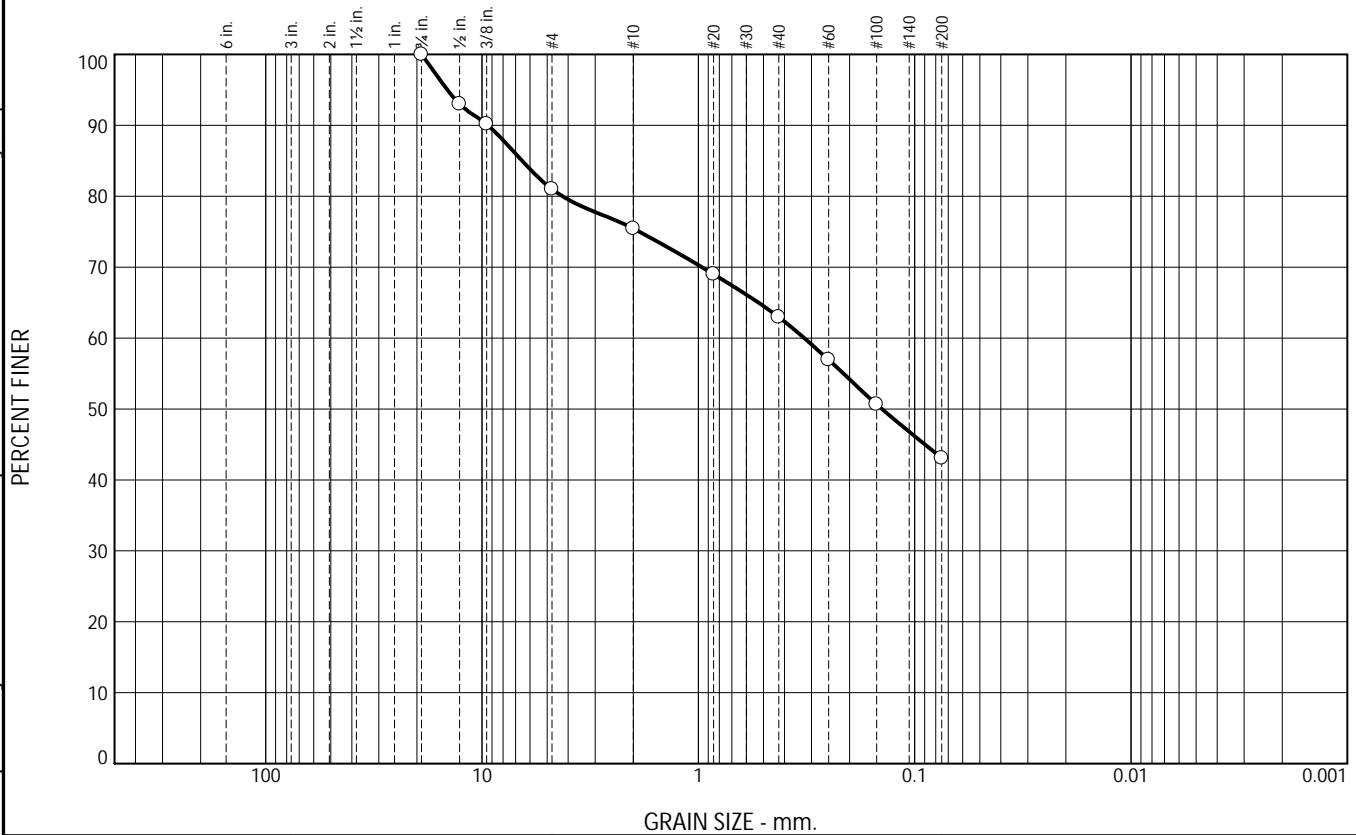
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-02	

Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	19.0	5.6	12.4	19.9	43.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	93.0		
3/8"	90.2		
#4	81.0		
#10	75.4		
#20	69.0		
#40	63.0		
#60	56.9		
#100	50.7		
#200	43.1		

Soil Description

Brown silty clayey sand with gravel

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 9.3879 D₈₅= 6.5248 D₆₀= 0.3241
 D₅₀= 0.1417 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-304A

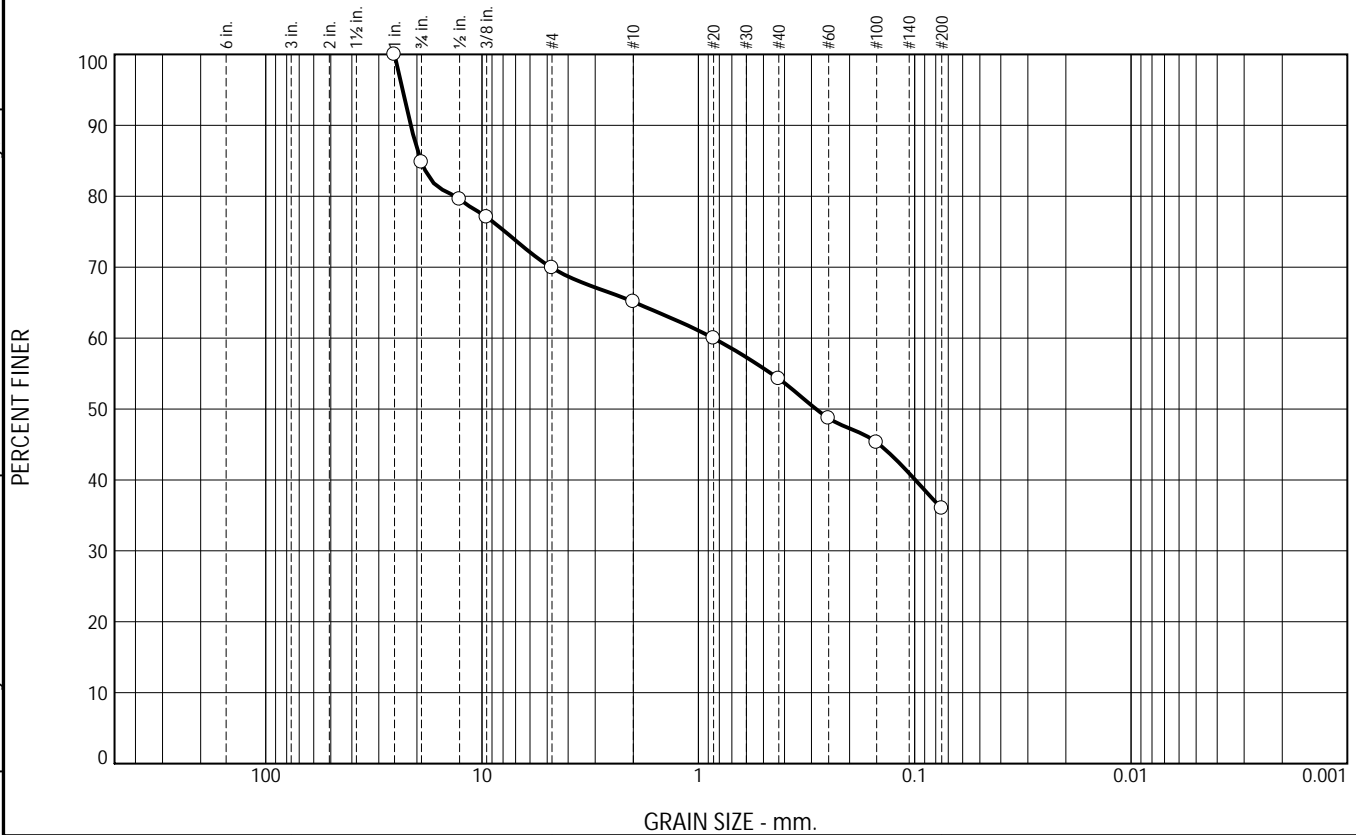
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-03	

Tested By: JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	15.2	14.9	4.8	10.8	18.3	36.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	84.8		
1/2"	79.6		
3/8"	77.1		
#4	69.9		
#10	65.1		
#20	60.0		
#40	54.3		
#60	48.7		
#100	45.3		
#200	36.0		

Soil Description

Brown silty clayey sand with gravel

PL= Atterberg Limits PI=

LL= LL= PI=

Coefficients

D₉₀= 21.3573 D₈₅= 19.1717 D₆₀= 0.8545

D₅₀= 0.2861 D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
Sample Number: DISP-304B

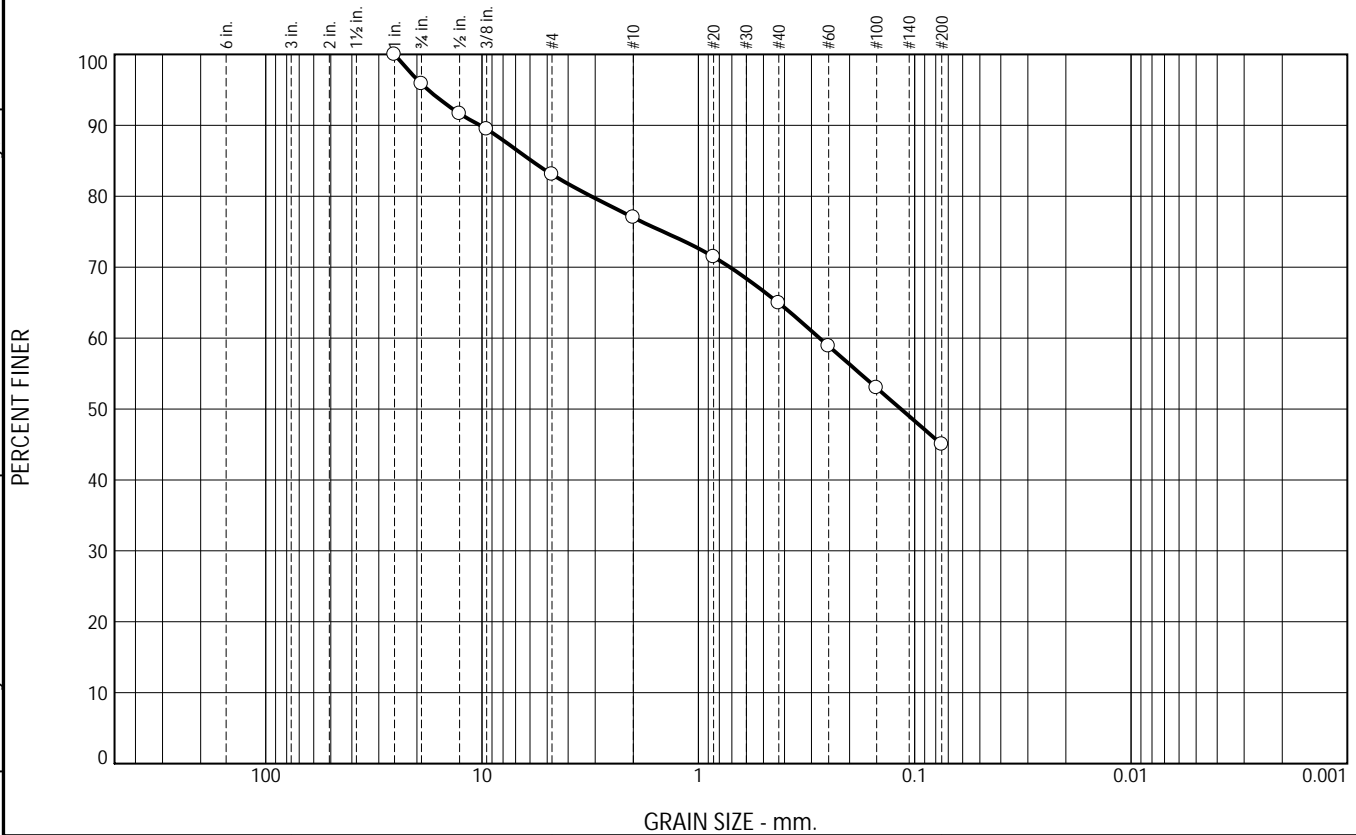
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712 Fig. 23G0712-04
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Tested By: JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.2	12.7	6.1	12.1	19.9	45.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	95.8		
1/2"	91.7		
3/8"	89.5		
#4	83.1		
#10	77.0		
#20	71.5		
#40	64.9		
#60	58.9		
#100	53.0		
#200	45.0		

Soil Description

Brown silty clayey sand with gravel

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 10.1947 D₈₅= 5.8994 D₆₀= 0.2755
 D₅₀= 0.1158 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-304C

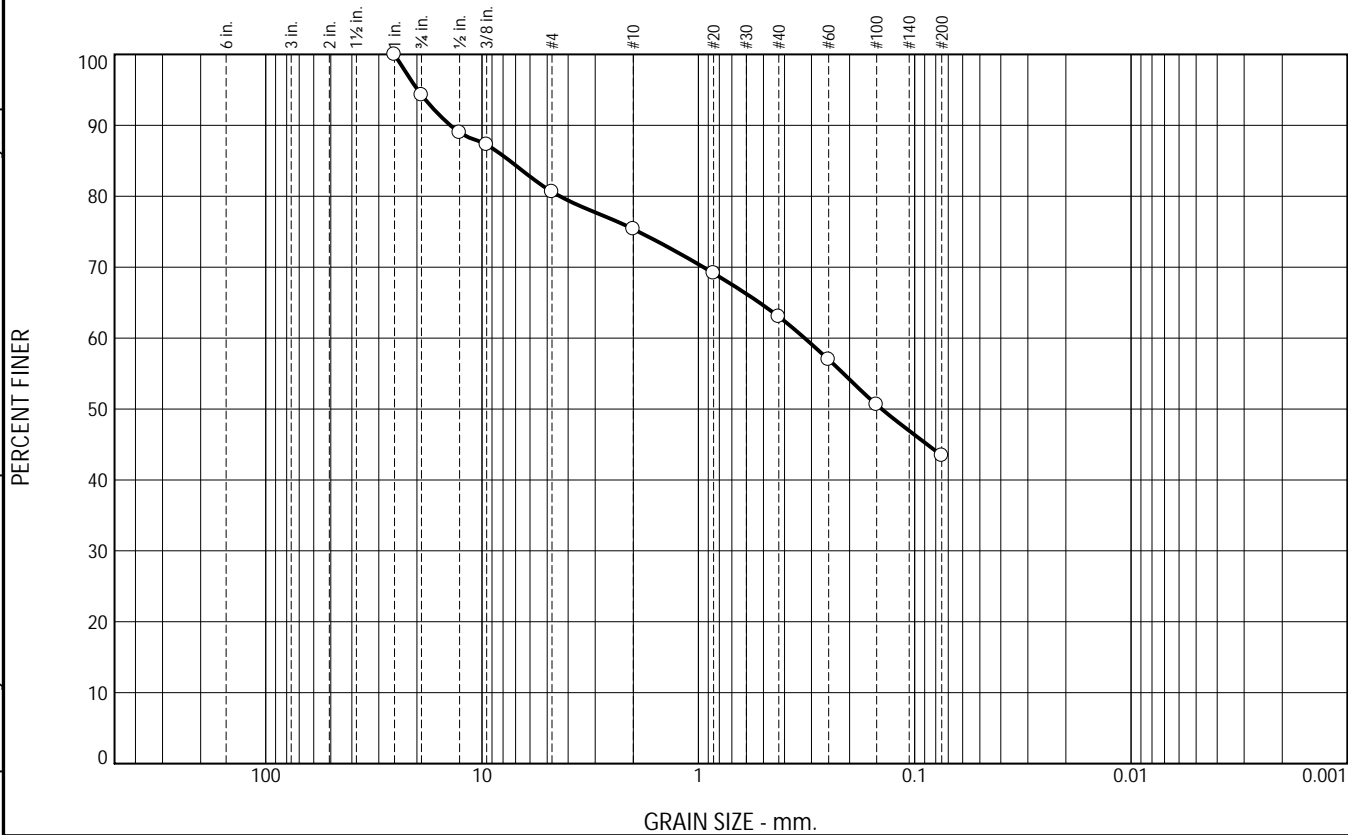
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-05	

Tested By: JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	5.7	13.7	5.2	12.4	19.6	43.4	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	94.3		
1/2"	89.0		
3/8"	87.3		
#4	80.6		
#10	75.4		
#20	69.1		
#40	63.0		
#60	57.0		
#100	50.6		
#200	43.4		

Soil Description

Brown silty clayey sand with gravel

PL= Atterberg Limits PI=

LL=

Coefficients

D₉₀= 14.0008 D₈₅= 7.4398 D₆₀= 0.3230

D₅₀= 0.1421 D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-304D

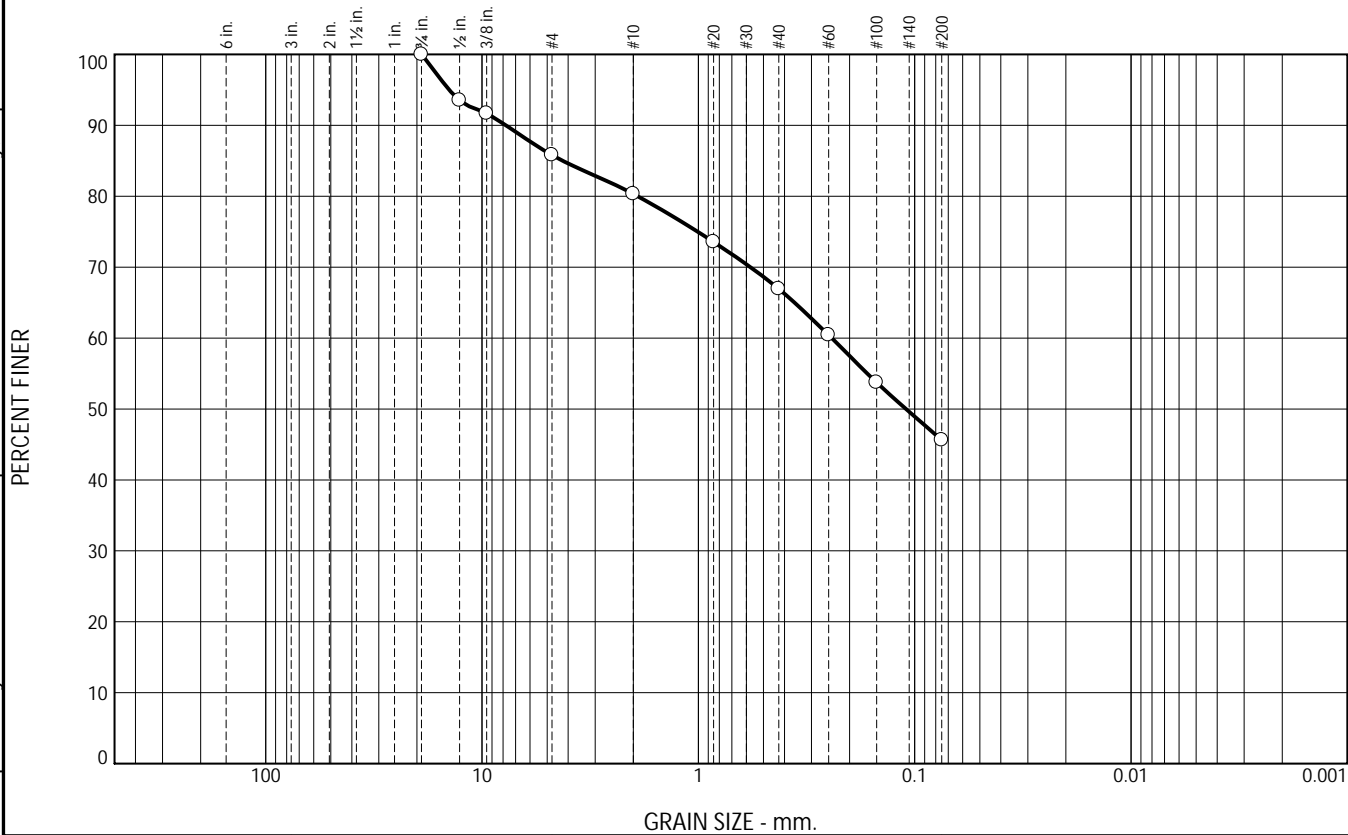
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-06	

Tested By: JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	14.2	5.5	13.4	21.3	45.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	93.5		
3/8"	91.7		
#4	85.8		
#10	80.3		
#20	73.5		
#40	66.9		
#60	60.4		
#100	53.7		
#200	45.6		

Soil Description

Brown silty sand

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 7.7579 D₈₅= 4.2303 D₆₀= 0.2417
 D₅₀= 0.1097 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-305C

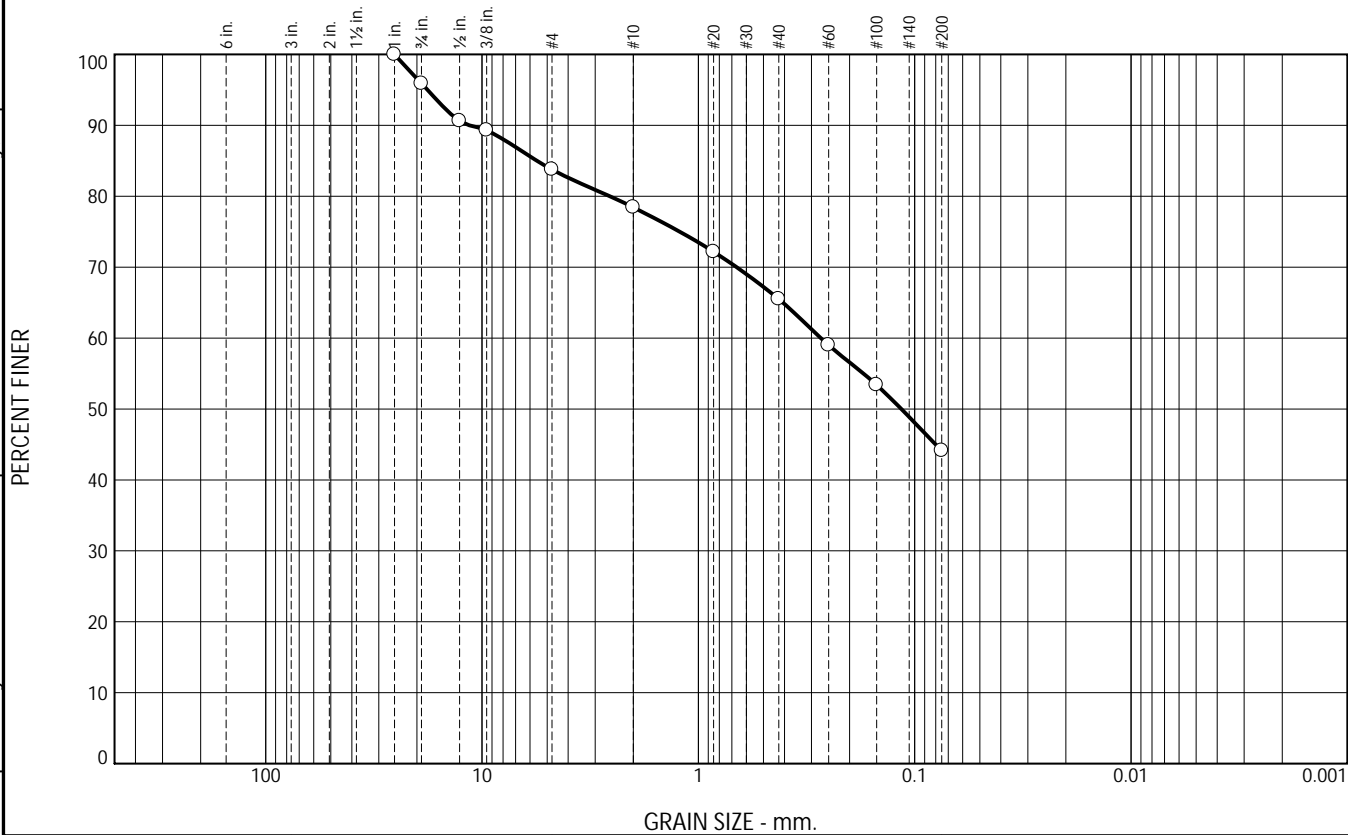
Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-07	

Tested By: JB Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.1	12.1	5.4	12.9	21.4	44.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	95.9		
1/2"	90.6		
3/8"	89.3		
#4	83.8		
#10	78.4		
#20	72.2		
#40	65.5		
#60	59.0		
#100	53.4		
#200	44.1		

Soil Description

Brown silty clayey sand with gravel

PL= Atterberg Limits PI=

LL= LL= LL=

Coefficients

D₉₀= 11.4059 D₈₅= 5.5723 D₆₀= 0.2717

D₅₀= 0.1153 D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
Sample Number: DISP-305D

Date: 07.27.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-08	

Tested By: JB Checked By:

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	5.1	13.2	6.1	12.2	21.2	42.2	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0		
1"	97.1		
3/4"	94.9		
1/2"	90.6		
3/8"	87.7		
#4	81.7		
#10	75.6		
#20	69.9		
#40	63.4		
#60	56.9		
#100	50.7		
#200	42.2		

Soil Description

Brown silty clayey sand with gravel

PL= Atterberg Limits PI=

LL=

Coefficients

D₉₀= 11.9910 D₈₅= 7.0861 D₆₀= 0.3194

D₅₀= 0.1416 D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-101A

Date: 07.28.23

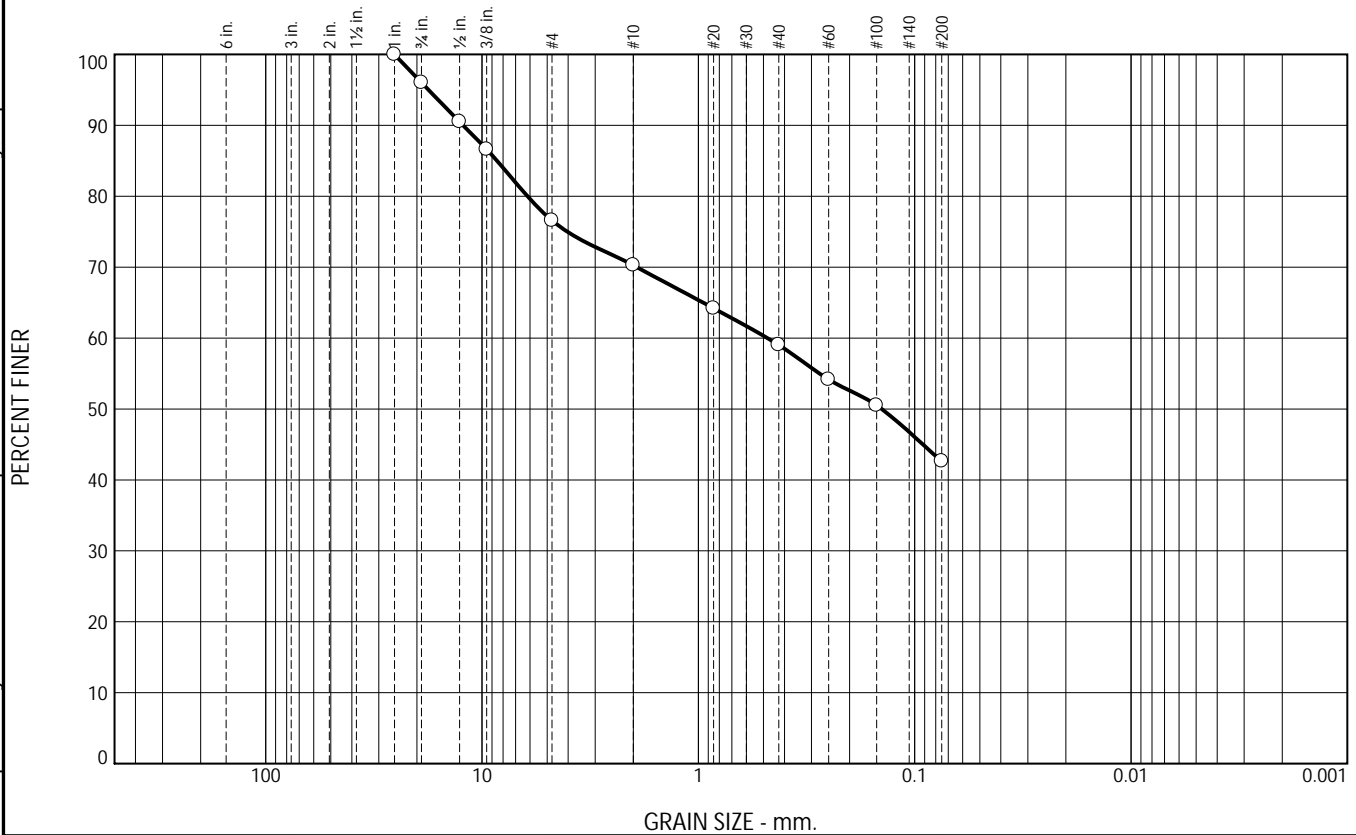
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-09	

Tested By: JB / SP

Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.0	19.4	6.3	11.3	16.4	42.6	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	96.0		
1/2"	90.5		
3/8"	86.6		
#4	76.6		
#10	70.3		
#20	64.2		
#40	59.0		
#60	54.2		
#100	50.5		
#200	42.6		

Soil Description

Brown silty clayey sand with gravel

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 12.2368 D₈₅= 8.5243 D₆₀= 0.4794
 D₅₀= 0.1422 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-101B

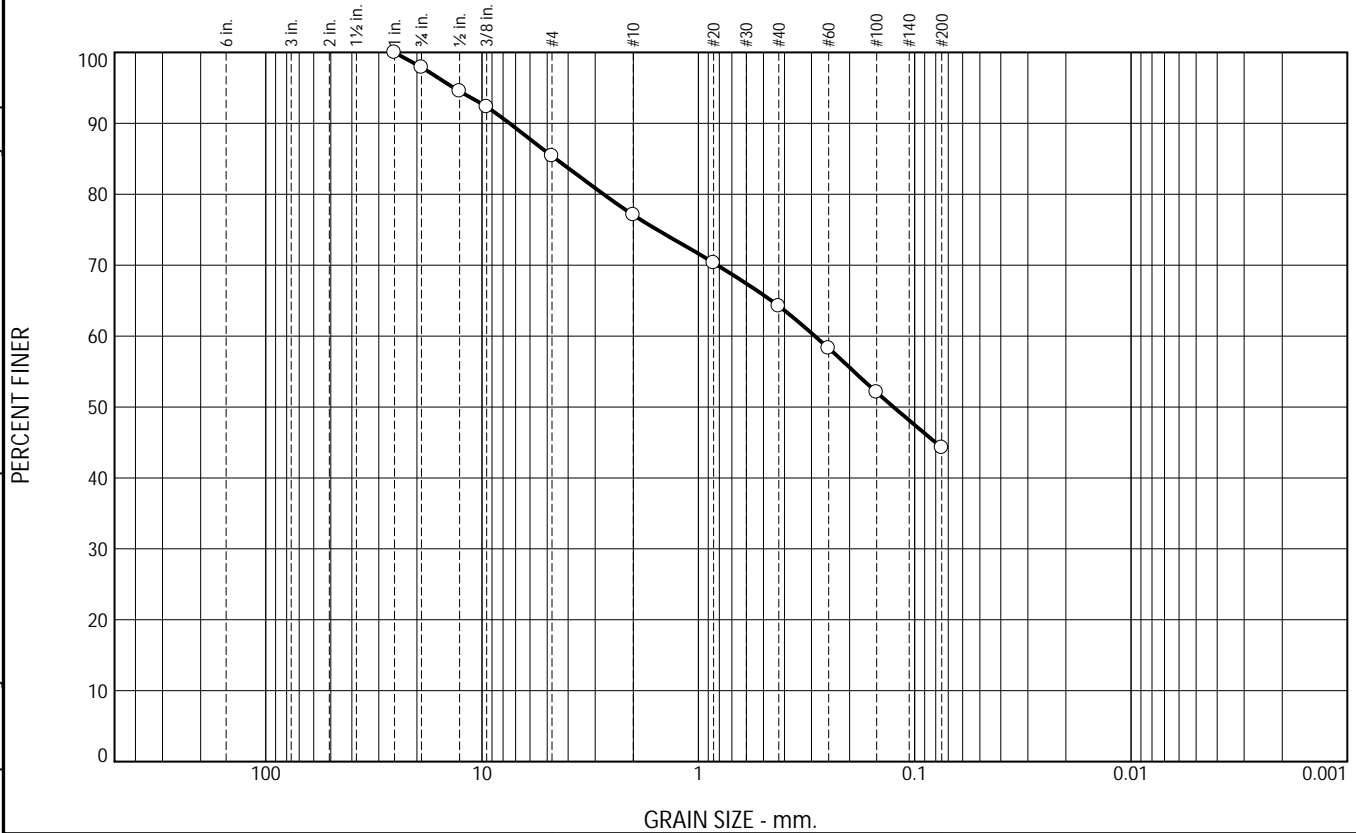
Date: 07.28.23

Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-10	

Tested By: JB / SP Checked By:

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	2.1	12.5	8.3	12.9	19.9	44.3	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1"	100.0		
3/4"	97.9		
1/2"	94.5		
3/8"	92.3		
#4	85.4		
#10	77.1		
#20	70.3		
#40	64.2		
#60	58.3		
#100	52.1		
#200	44.3		

Soil Description

Brown silty clayey sand

PL= Atterberg Limits PI=

LL= LL= PI=

Coefficients

D₉₀= 7.4559 D₈₅= 4.5606 D₆₀= 0.2893

D₅₀= 0.1254 D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
Sample Number: DISP-101C/D

Date: 07.28.23

<p>Thielsch Engineering Inc.</p> <p>Cranston, RI</p>	<p>Client: ESS Laboratory</p> <p>Project: Stockpile Characterization RHS, Newport RI</p> <p>Project No: 23G0712</p>
<p>Fig. 23G0712-11</p>	

Tested By: JB / SP

Checked By:

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	15.7	6.3	13.0	20.0	45.0	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	95.5		
3/8"	93.9		
#4	84.3		
#10	78.0		
#20	71.4		
#40	65.0		
#60	58.8		
#100	52.5		
#200	45.0		

Soil Description

Brown silty clayey sand with gravel

Atterberg Limits
 PL= LL= PI=

Coefficients
 D₉₀= 7.0950 D₈₅= 5.0330 D₆₀= 0.2766
 D₅₀= 0.1198 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-102A

Date: 07.28.23

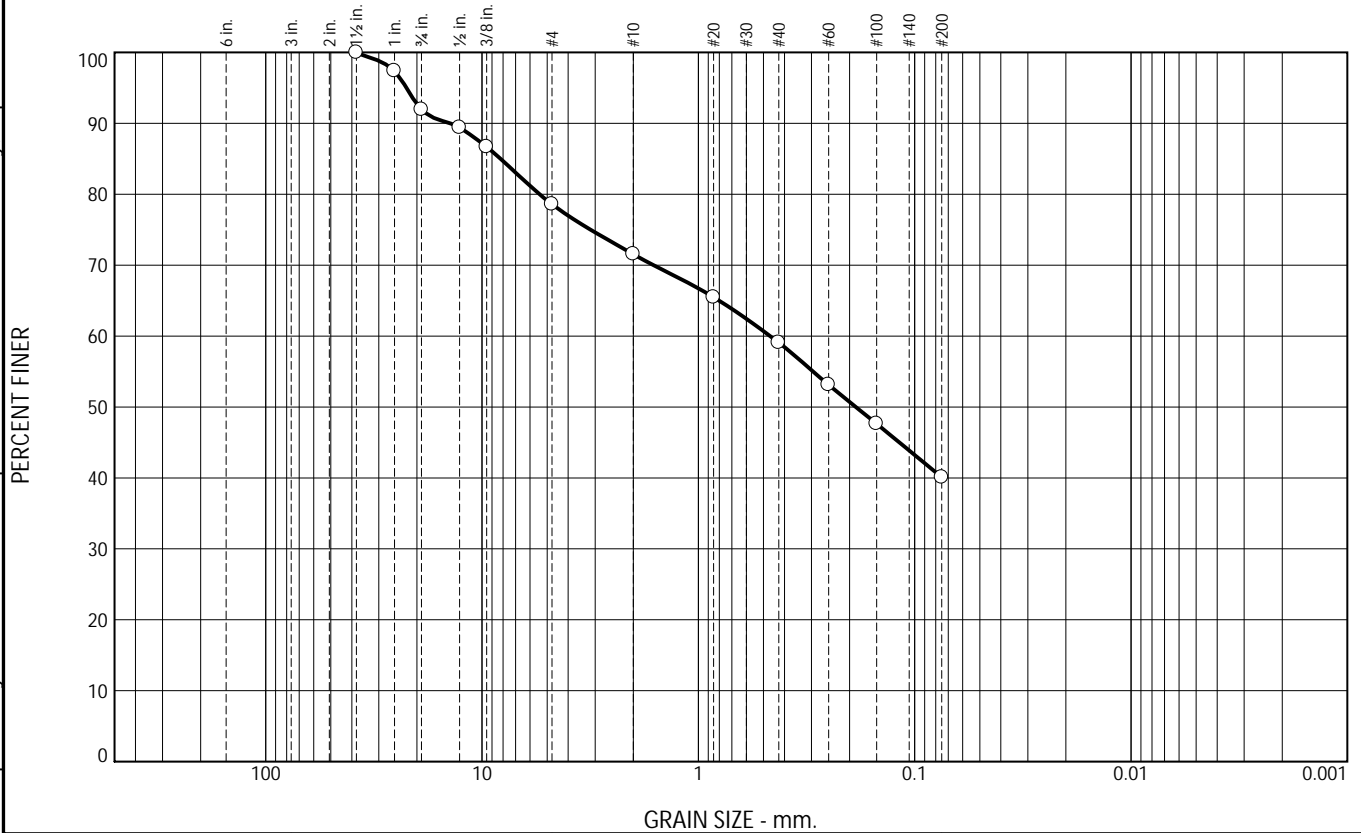
Thielsch Engineering Inc. Cranston, RI	Client: ESS Laboratory Project: Stockpile Characterization RHS, Newport RI Project No: 23G0712
Fig. 23G0712-12	

Tested By: JB / SP

Checked By:

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	8.1	13.3	7.1	12.4	19.0	40.1	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1 1/2"	100.0		
1"	97.4		
3/4"	91.9		
1/2"	89.4		
3/8"	86.7		
#4	78.6		
#10	71.5		
#20	65.5		
#40	59.1		
#60	53.1		
#100	47.6		
#200	40.1		

Soil Description

Brown silty clayey sand with gravel

PL= Atterberg Limits PI=

LL=

Coefficients

D₉₀= 14.0282 D₈₅= 8.2088 D₆₀= 0.4656

D₅₀= 0.1870 D₃₀= D₁₅=

D₁₀= C_u= C_c=

USCS= SM Classification AASHTO= A-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

* (no specification provided)

Source of Sample: Grab Depth: -
 Sample Number: DISP-103A

Date: 07.28.23

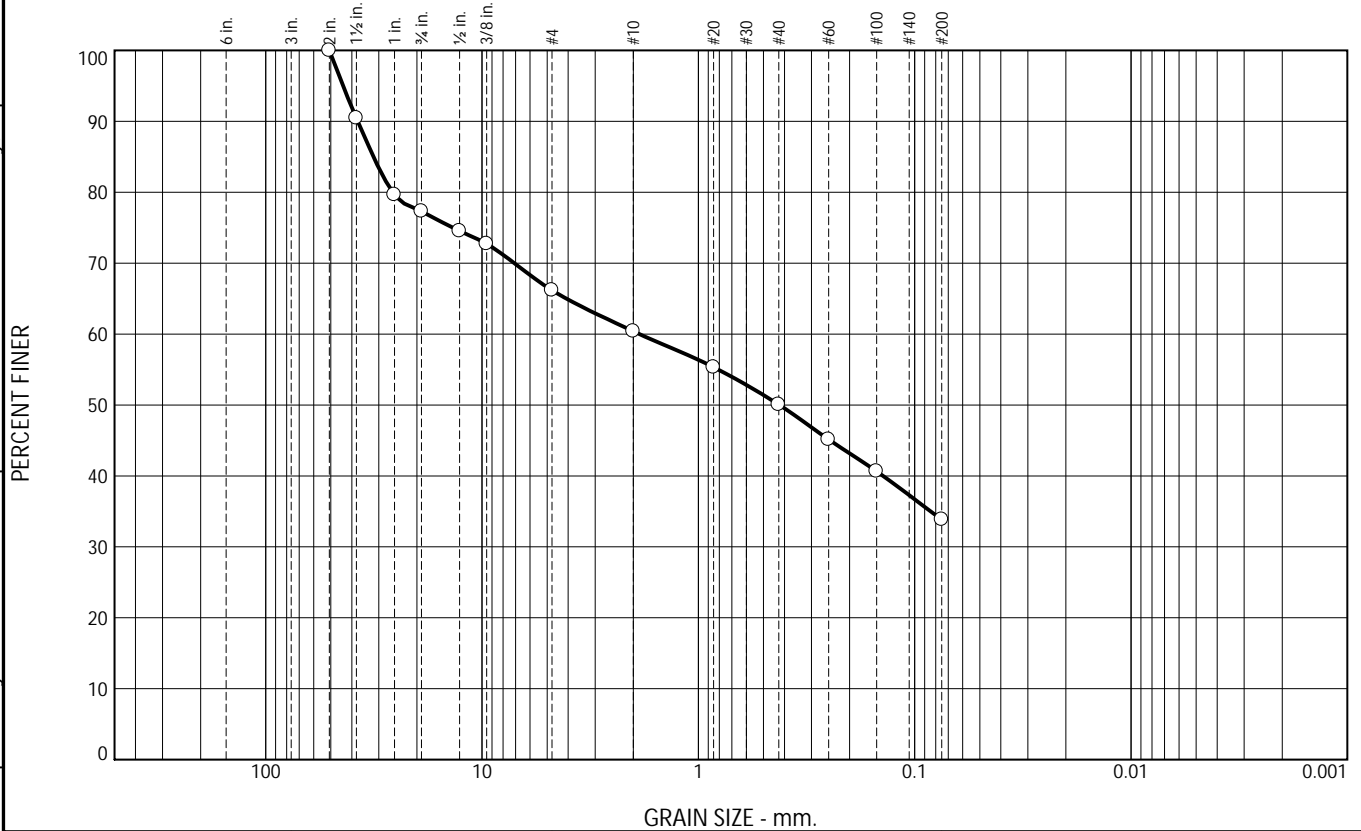
<p style="font-size: 1.2em; margin: 0;">Thielsch Engineering Inc.</p> <p style="margin: 0;">Cranston, RI</p>	<p>Client: ESS Laboratory</p> <p>Project: Stockpile Characterization RHS, Newport RI</p> <p>Project No: 23G0712</p>
<p>Fig. 23G0712-13</p>	

Tested By: JB / SP

Checked By:

These results are for the exclusive use of the client for whom they were obtained. This report only relates to items inspected and/or tested. No warranty, expressed or implied, is made.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	22.7	11.1	5.8	10.3	16.3	33.8	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100.0		
1 1/2"	90.5		
1"	79.7		
3/4"	77.3		
1/2"	74.5		
3/8"	72.7		
#4	66.2		
#10	60.4		
#20	55.3		
#40	50.1		
#60	45.1		
#100	40.6		
#200	33.8		

* (no specification provided)

Soil Description

Brown silty clayey gravel with sand

PL= Atterberg Limits PI=

LL= LL= PI=

Coefficients

D₉₀= 37.5243 D₈₅= 31.7492 D₆₀= 1.8731

D₅₀= 0.4219 D₃₀= D₁₅=

D₁₀= C_u= C_c=

Classification

USCS= GM AASHTO= A-2-4(0)

Remarks

Sample visually classified as plastic. Sample rolled to 1/4"

Source of Sample: Grab Depth: -
Sample Number: DISP-104A

Date: 07.28.23

<p style="font-size: 1.2em; margin: 0;">Thielsch Engineering Inc.</p> <p style="margin: 0;">Cranston, RI</p>	<p>Client: ESS Laboratory</p> <p>Project: Stockpile Characterization RHS, Newport RI</p> <p>Project No: 23G0712</p>
<p>Fig. 23G0712-14</p>	

Tested By: JB / SP

Checked By:

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Pare Corporation - TB
 Shipped/Delivered Via: Client

ESS Project ID: 23G0712
 Date Received: 7/21/2023
 Project Due Date: 7/28/2023
 Days for Project: 5 Day

- 1. Air bill manifest present? No
 Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
 Temp: 19.4 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about **short holds & rushes**? Yes / No / NA
- 10. Were any analyses received outside of hold time? Yes / No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: 1-14 Sieve
 Analysis: Sieve
 TAT: 5 days

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: 7/21/23
 b. Low Level VOA vials frozen: Date: 7/21/23

Time: 17:50 By/Acid Lot#: RL
 By: JA 7/28/23

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Resolution:

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	456445	Yes	N/A	Yes	Driller Jar	NP	
1	456452	Yes	N/A	Yes	8 oz jar	NP	
1	456453	Yes	N/A	Yes	8 oz jar	NP	
1	456466	Yes	N/A	Yes	VOA Vial	DI Water	
1	456467	Yes	N/A	Yes	VOA Vial	DI Water	
1	456480	Yes	N/A	Yes	VOA Vial	MeOH	
2	456446	Yes	N/A	Yes	Driller Jar	NP	
2	456454	Yes	N/A	Yes	8 oz jar	NP	
2	456455	Yes	N/A	Yes	8 oz jar	NP	
2	456468	Yes	N/A	Yes	VOA Vial	DI Water	
2	456469	Yes	N/A	Yes	VOA Vial	DI Water	
2	456481	Yes	N/A	Yes	VOA Vial	MeOH	
3	456447	Yes	N/A	Yes	Driller Jar	NP	
3	456456	Yes	N/A	Yes	8 oz jar	NP	
3	456457	Yes	N/A	Yes	8 oz jar	NP	
3	456470	Yes	N/A	Yes	VOA Vial	DI Water	
3	456471	Yes	N/A	Yes	VOA Vial	DI Water	

ESS Laboratory Sample and Cooler Receipt Checklist

Client: Pare Corporation - TB

ESS Project ID: 23G0712

Date Received: 7/21/2023

3	456482	Yes	N/A	Yes	VOA Vial	MeOH
4	456448	Yes	N/A	Yes	Driller Jar	NP
4	456458	Yes	N/A	Yes	8 oz jar	NP
4	456459	Yes	N/A	Yes	8 oz jar	NP
4	456472	Yes	N/A	Yes	VOA Vial	DI Water
4	456473	Yes	N/A	Yes	VOA Vial	DI Water
4	456483	Yes	N/A	Yes	VOA Vial	MeOH
5	456449	Yes	N/A	Yes	Driller Jar	NP
5	456460	Yes	N/A	Yes	8 oz jar	NP
5	456461	Yes	N/A	Yes	8 oz jar	NP
5	456474	Yes	N/A	Yes	VOA Vial	DI Water
5	456475	Yes	N/A	Yes	VOA Vial	DI Water
5	456484	Yes	N/A	Yes	VOA Vial	MeOH
6	456450	Yes	N/A	Yes	Driller Jar	NP
6	456462	Yes	N/A	Yes	8 oz jar	NP
6	456463	Yes	N/A	Yes	8 oz jar	NP
6	456476	Yes	N/A	Yes	VOA Vial	DI Water
6	456477	Yes	N/A	Yes	VOA Vial	DI Water
6	456485	Yes	N/A	Yes	VOA Vial	MeOH
7	456451	Yes	N/A	Yes	Driller Jar	NP
7	456464	Yes	N/A	Yes	8 oz jar	NP
7	456465	Yes	N/A	Yes	8 oz jar	NP
7	456478	Yes	N/A	Yes	VOA Vial	DI Water
7	456479	Yes	N/A	Yes	VOA Vial	DI Water
7	456486	Yes	N/A	Yes	VOA Vial	MeOH
8	456438	Yes	N/A	Yes	Driller Jar	NP
8	456487	Yes	N/A	Yes	8 oz jar	NP
8	456488	Yes	N/A	Yes	8 oz jar	NP
8	456489	Yes	N/A	Yes	VOA Vial	DI Water
8	456490	Yes	N/A	Yes	VOA Vial	DI Water
8	456491	Yes	N/A	Yes	VOA Vial	MeOH
9	456439	Yes	N/A	Yes	Plastic Baggie	NP
10	456440	Yes	N/A	Yes	Plastic Baggie	NP
11	456441	Yes	N/A	Yes	Plastic Baggie	NP
12	456442	Yes	N/A	Yes	Plastic Baggie	NP
13	456443	Yes	N/A	Yes	Plastic Baggie	NP
14	456444	Yes	N/A	Yes	Plastic Baggie	NP

2nd Review

Were all containers scanned into storage/lab?

Initials TD

Are barcode labels on correct containers?

Yes / No

Are all Flashpoint stickers attached/container ID # circled?

Yes / No / NA

Are all Hex Chrome stickers attached?

Yes / No / NA

Are all QC stickers attached?

Yes / No / NA

Are VOA stickers attached if bubbles noted?

Yes / No / NA

Completed

By: [Signature]

Date & Time: 7/21/23 1720

Reviewed

By: [Signature]

Date & Time: 7/21/23 1749



185 Frances Avenue
 Cranston, RI 02910
 Phone: 401-461-7181
 Fax: 401-461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # **2360712** Page **28** of **34**

Turn Time (Days) > 5 5 4 3 2 1 Same Day

Regulatory State: Rhode Island Criteria: R-DEC, GA-LC

Is this project for any of the following?:
 CT RCP MA MCP RGP Permit 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

Limit Checker State Forms EQuIS
 Excel State Upload Enviro Data
 CLP-Like Package Other (Specify) →

CLIENT INFORMATION	PROJECT INFORMATION	REQUESTED ANALYSES
--------------------	---------------------	--------------------

Client: Joe Desanti, Downes Construction Co.
Address: 10 Dorrance Street
 Providence, RI
Phone: (860) 229-3755
Email Distribution List:
 abarton@parecorp.com
 thies@parecorp.com
 mflynn@parecorp.com

Project Name: Stockpile Characterization
Project Location: Rogers High, Newport, RI
Project Number: 21106.00
Project Manager: Tim Thies, Pare Corporation
Bill to: jdesanti@downesco.com
PO#: 21106.00
Quote#:

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

VOCs (8260)	SVOCs (8270)	TPH (8100M)	RCRA 8 Metals (6010/7141)	Organochlorine Pesticides (8081)	PCBs (8082)	pH	Flashpoint	Conductivity	Sieve	Total Number of Bottles
-------------	--------------	-------------	---------------------------	----------------------------------	-------------	----	------------	--------------	-------	-------------------------

ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID	VOCs (8260)	SVOCs (8270)	TPH (8100M)	RCRA 8 Metals (6010/7141)	Organochlorine Pesticides (8081)	PCBs (8082)	pH	Flashpoint	Conductivity	Sieve	Total Number of Bottles	
1	7/21/23	1110	Grab	Soil	DISP-303C	X	X	X	X	X	X	X	X	X	X		6
2		1120			DISP-303D												
3		1300			DISP-304A												
4		1310			DISP-304B												
5		1140			DISP-304C												
6		1150			DISP-304D												
7		1200			DISP-305C												
8		1210			DISP-305D												
9		0750			DISP-101A											X	1
10		0945			DISP-101B											X	1

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitaier J-Jar O-Other P-Poly S-Sterile V-Vial V J J J J J J J J %

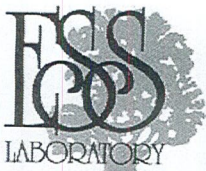
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other* 7 10 10 10 10 10 10 10 10 10

Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other* 4/10 1 1 1 1 1 1 1 1 1

Sampled by : Andrew Hook (sign) **Chain needs to be filled out neatly and completely for on time delivery.**

Laboratory Use Only	Comments: * Please specify "Other" preservative and containers types in this space Glassware: 2 x 8oz non-pres ambers, 2 x 40mL Stir Bar VOAs, 1 x 40mL MeOH VOA, 1 8-oz bag	All samples submitted are subject to ESS Laboratory's payment terms and conditions.	Dissolved Filtration
Cooler Temperature (°C): 19.4 ice			<input type="checkbox"/> Lab Filter

Relinquished by (Signature)	Date	Time	Received By (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<i>[Signature]</i>	7/21/23	16:30	<i>[Signature]</i>				



185 Frances Avenue
 Cranston, RI 02910
 Phone: 401-461-7181
 Fax: 401-461-4486
 www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 2360712 Page 3 of 3

Turn Time (Days) > 5 5 4 3 2 1 Same Day

Regulatory State: Rhode Island Criteria: R-DEC, GA-LC

Is this project for any of the following?:

CT RCP MA MCP RGP Permit 401 WQ

ELECTRONIC DELIVERABLES (Final Reports are PDF)

Limit Checker State Forms EQUIS

Excel State Upload Enviro Data

CLP-Like Package Other (Specify) →

CLIENT INFORMATION				PROJECT INFORMATION				REQUESTED ANALYSES										Total Number of Bottles						
Client: Joe Desanti, Downes Construction Co. Address: 10 Dorrance Street Providence, RI Phone: (860) 229-3755 Email Distribution List: abarton@parecorp.com, tthies@parecorp.com, mflynn@parecorp.com				Project Name: Stockpile Characterization Project Location: Rogers High, Newport, RI Project Number: 21106.00 Project Manager: Tim Thies, Pare Corporation Bill to: jdesanti@downesco.com PO#: 21106.00 Quote#:				Client acknowledges that sampling is compliant with all EPA / State regulatory programs											VOCs (8260) SVOCs (8270) TPH (8100M) RCRA 8 Metals (6010/7141) Organochlorine Pesticides (8081) PCBs (8082) pH Flashpoint Conductivity Sieve					
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID																			
11	7/21/23	1100	Grab	Soil	DISP-101C/D																	1		
12	↓	0750	↓	↓	DISP-102A																	1		
13	↓	0740	↓	↓	DISP-103A DISP-103A																	1		
14	↓	0735	↓	↓	DISP-104A																	1		
Container Type:				AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial																				
Container Volume:				1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*																				6
Preservation Code:				1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other*																				

Sampled by: Andrew Hook (sign)

Chain needs to be filled out neatly and completely for on time delivery.

Laboratory Use Only			Comments: * Please specify "Other" preservative and containers types in this space				All samples submitted are subject to ESS Laboratory's payment terms and conditions.			Dissolved Filtration	
Cooler Temperature (°C): <u>19.4</u> <u>11e</u>			Glassware: 2 x 8oz non-pres ambers, 2 x 40mL Stir Bar VOAs, 1 x 40mL MeOH VOA, 1 8-oz bag							<input type="checkbox"/> Lab Filter	
Relinquished by (Signature)		Date	Time	Received by (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)	
		7/21/23	16:30								
Relinquished by (Signature)		Date	Time	Received by (Signature)		Relinquished by (Signature)		Date	Time	Received by (Signature)	



CERTIFICATE OF ANALYSIS

Tim Thies
Pare Corporation
8 Blackstone Valley Place
Lincoln, RI 02865

RE: Stockpile Characterization (21106.00)
ESS Laboratory Work Order Number: 23H0254

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED
By ESS Laboratory at 2:52 pm, Aug 17, 2023

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

CTS - Cranston, RI

Sieve Analysis



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

SAMPLE RECEIPT

The following samples were received on August 08, 2023 for the analyses specified on the enclosed Chain of Custody Record.

Low Level VOA vials were frozen by ESS Laboratory on 8/08/23 at 12:20.

Lab Number	Sample Name	Matrix	Analysis
23H0254-01	DISP-401A	Soil	1010A, 6010C, 7471B, 8081B, 8082A, 8100M, 8260B Low, 8270D, 9045, 9050A, SUB



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

DH30932-BSD1 [Blank Spike recovery is below lower control limit \(B-\).](#)

Dichlorodifluoromethane (69% @ 70-130%)

8270D Semi-Volatile Organic Compounds

D3H0163-CCV1 [Calibration required quadratic regression \(Q\).](#)

2,4-Dinitrophenol (95% @ 80-120%), 4,6-Dinitro-2-Methylphenol (98% @ 80-120%), Benzoic Acid (158% @ 80-120%), Pentachlorophenol (94% @ 80-120%)

D3H0163-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)

2,4,6-Tribromophenol (39% @ 20%), Benzoic Acid (58% @ 20%), Hexachlorobutadiene (27% @ 20%)

D3H0163-CCV1 [Initial Calibration Verification recovery is below lower control limit \(ICV-\).](#)

Hexachlorocyclopentadiene

DH30805-BS1 [Blank Spike recovery is above upper control limit \(B+\).](#)

Benzoic Acid (141% @ 40-140%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

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[Definitions of Quality Control Parameters](#)

[Semivolatile Organics Internal Standard Information](#)

[Semivolatile Organics Surrogate Information](#)

[Volatile Organics Internal Standard Information](#)

[Volatile Organics Surrogate Information](#)

[EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	4.18 (2.41)		6010C		1	CEV	08/10/23 11:19	2.23	100	DH30911
Barium	16.1 (2.41)		6010C		1	CEV	08/10/23 11:19	2.23	100	DH30911
Cadmium	ND (0.48)		6010C		1	CEV	08/10/23 11:19	2.23	100	DH30911
Chromium	8.85 (0.96)		6010C		1	CEV	08/10/23 11:19	2.23	100	DH30911
Lead	8.03 (4.82)		6010C		1	CEV	08/10/23 11:19	2.23	100	DH30911
Mercury	ND (0.033)		7471B		1	AFV	08/09/23 15:03	0.65	40	DH30912
Selenium	ND (4.82)		6010C		1	CEV	08/10/23 11:19	2.23	100	DH30911
Silver	ND (0.48)		6010C		1	CEV	08/10/23 11:19	2.23	100	DH30911



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 5.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,1,1-Trichloroethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,1,2,2-Tetrachloroethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,1,2-Trichloroethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,1-Dichloroethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,1-Dichloroethene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,1-Dichloropropene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2,3-Trichlorobenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2,3-Trichloropropane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2,4-Trichlorobenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2,4-Trimethylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2-Dibromo-3-Chloropropane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2-Dibromoethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2-Dichlorobenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2-Dichloroethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,2-Dichloropropane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,3,5-Trimethylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,3-Dichlorobenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,3-Dichloropropane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,4-Dichlorobenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1,4-Dioxane	ND (0.0910)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
1-Chlorohexane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
2,2-Dichloropropane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
2-Butanone	ND (0.0455)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
2-Chlorotoluene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
2-Hexanone	ND (0.0455)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
4-Chlorotoluene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
4-Isopropyltoluene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
4-Methyl-2-Pentanone	ND (0.0455)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Acetone	ND (0.0455)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Benzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Bromobenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 5.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromochloromethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Bromodichloromethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Bromoform	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Bromomethane	ND (0.0091)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Carbon Disulfide	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Carbon Tetrachloride	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Chlorobenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Chloroethane	ND (0.0091)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Chloroform	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Chloromethane	ND (0.0091)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
cis-1,2-Dichloroethene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
cis-1,3-Dichloropropene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Dibromochloromethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Dibromomethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Dichlorodifluoromethane	ND (0.0091)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Diethyl Ether	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Di-isopropyl ether	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Ethyl tertiary-butyl ether	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Ethylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Hexachlorobutadiene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Isopropylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Methyl tert-Butyl Ether	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Methylene Chloride	ND (0.0228)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Naphthalene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
n-Butylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
n-Propylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
sec-Butylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Styrene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
tert-Butylbenzene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Tertiary-amyl methyl ether	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Tetrachloroethene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Tetrahydrofuran	ND (0.0182)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 5.9g
Final Volume: 10ml
Extraction Method: 5035

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Toluene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
trans-1,2-Dichloroethene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
trans-1,3-Dichloropropene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Trichloroethene	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Trichlorofluoromethane	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Vinyl Acetate	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Vinyl Chloride	ND (0.0091)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Xylene O	ND (0.0046)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Xylene P,M	ND (0.0091)		8260B Low		1	08/09/23 14:00	D3H0180	DH30932
Xylenes (Total)	ND (0.00910)		8260B Low		1	08/09/23 14:00		[CALC]

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>96 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>93 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>99 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 19.7g
Final Volume: 5ml
Extraction Method: 3546

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 8/9/23 10:15

8081B Organochlorine Pesticides

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
4,4'-DDD	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
4,4'-DDE	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
4,4'-DDT	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Aldrin	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
alpha-BHC	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
alpha-Chlordane	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
beta-BHC	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Chlordane (Total)	ND (0.0327)		8081B		1	08/11/23 22:02	D3H0221	DH30907
delta-BHC	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Dieldrin	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Endosulfan I	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Endosulfan II	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Endosulfan Sulfate	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Endrin	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Endrin Aldehyde	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Endrin Ketone	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
gamma-BHC (Lindane)	ND (0.0016)		8081B		1	08/11/23 22:02	D3H0221	DH30907
gamma-Chlordane	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Heptachlor	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Heptachlor Epoxide	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Hexachlorobenzene	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Methoxychlor	ND (0.0027)		8081B		1	08/11/23 22:02	D3H0221	DH30907
Toxaphene	ND (0.136)		8081B		1	08/11/23 22:02	D3H0221	DH30907

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	64 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	73 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	63 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	68 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 20.4g
Final Volume: 10ml
Extraction Method: 3540C

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: DMC
Prepared: 8/9/23 10:08

8082A Polychlorinated Biphenyls (PCB)

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aroclor 1016	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1221	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1232	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1242	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1248	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1254	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1260	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1262	ND (0.05)		8082A		1	08/10/23 13:41		DH30910
Aroclor 1268	ND (0.05)		8082A		1	08/10/23 13:41		DH30910

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: Decachlorobiphenyl</i>	66 %		30-150
<i>Surrogate: Decachlorobiphenyl [2C]</i>	66 %		30-150
<i>Surrogate: Tetrachloro-m-xylene</i>	75 %		30-150
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	83 %		30-150



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 20.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: JDN
Prepared: 8/8/23 16:10

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	ND (39.5)		8100M		1	08/09/23 12:00		DH30806
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>84 %</i>		<i>40-140</i>				



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/23 16:05

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1-Biphenyl	ND (0.028)		8270D		1	08/08/23 22:01	D3H0163	DH30805
1,2,4-Trichlorobenzene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
1,2-Dichlorobenzene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
1,3-Dichlorobenzene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
1,4-Dichlorobenzene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,3,4,6-Tetrachlorophenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,4,5-Trichlorophenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,4,6-Trichlorophenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,4-Dichlorophenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,4-Dimethylphenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,4-Dinitrophenol	ND (1.11)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,4-Dinitrotoluene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2,6-Dinitrotoluene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2-Chloronaphthalene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2-Chlorophenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2-Methylnaphthalene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2-Methylphenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2-Nitroaniline	ND (0.554)		8270D		1	08/08/23 22:01	D3H0163	DH30805
2-Nitrophenol	ND (0.554)		8270D		1	08/08/23 22:01	D3H0163	DH30805
3,3'-Dichlorobenzidine	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
3+4-Methylphenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
3-Nitroaniline	ND (0.554)		8270D		1	08/08/23 22:01	D3H0163	DH30805
4,6-Dinitro-2-Methylphenol	ND (1.11)		8270D		1	08/08/23 22:01	D3H0163	DH30805
4-Bromophenyl-phenylether	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
4-Chloro-3-Methylphenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
4-Chloroaniline	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
4-Chloro-phenyl-phenyl ether	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
4-Nitroaniline	ND (0.554)		8270D		1	08/08/23 22:01	D3H0163	DH30805
4-Nitrophenol	ND (1.11)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Acenaphthene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Acenaphthylene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Acetophenone	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/23 16:05

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Aniline	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Anthracene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Azobenzene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Benzo(a)anthracene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Benzo(a)pyrene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Benzo(b)fluoranthene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Benzo(g,h,i)perylene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Benzo(k)fluoranthene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Benzoic Acid	ND (2.77)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Benzyl Alcohol	ND (0.554)		8270D		1	08/08/23 22:01	D3H0163	DH30805
bis(2-Chloroethoxy)methane	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
bis(2-Chloroethyl)ether	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
bis(2-chloroisopropyl)Ether	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
bis(2-Ethylhexyl)phthalate	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Butylbenzylphthalate	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Carbazole	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Chrysene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Dibenzo(a,h)Anthracene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Dibenzofuran	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Diethylphthalate	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Dimethylphthalate	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Di-n-butylphthalate	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Di-n-octylphthalate	ND (0.554)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Fluoranthene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Fluorene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Hexachlorobenzene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Hexachlorobutadiene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Hexachlorocyclopentadiene	ND (0.554)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Hexachloroethane	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Indeno(1,2,3-cd)Pyrene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Isophorone	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Naphthalene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93
Initial Volume: 19.4g
Final Volume: 1ml
Extraction Method: 3546

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TJ
Prepared: 8/8/23 16:05

8270D Semi-Volatile Organic Compounds

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Nitrobenzene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
N-Nitrosodimethylamine	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
N-Nitroso-Di-n-Propylamine	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
N-nitrosodiphenylamine	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Pentachlorophenol	ND (1.11)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Phenanthrene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Phenol	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Pyrene	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805
Pyridine	ND (0.277)		8270D		1	08/08/23 22:01	D3H0163	DH30805

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>65 %</i>		<i>30-130</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>103 %</i>		<i>30-130</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>64 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>70 %</i>		<i>30-130</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>63 %</i>		<i>30-130</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>69 %</i>		<i>30-130</i>
<i>Surrogate: Phenol-d6</i>	<i>66 %</i>		<i>30-130</i>
<i>Surrogate: p-Terphenyl-d14</i>	<i>71 %</i>		<i>30-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30
Percent Solids: 93

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil

Classical Chemistry

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Conductivity	WL 182 (5)		9050A		1	EJR	08/09/23 14:48	umhos/cm	DH30941
Corrosivity (pH)	7.49 (N/A)		9045		1	EAM	08/08/23 11:45	S.U.	DH30815
Corrosivity (pH) Sample Temp	Soil pH measured in water at 20.8 °C.								
Flashpoint	> 200 (N/A)		1010A		1	JLK	08/08/23 17:22	°F	DH30848



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization
Client Sample ID: DISP-401A
Date Sampled: 08/08/23 08:30

ESS Laboratory Work Order: 23H0254
ESS Laboratory Sample ID: 23H0254-01
Sample Matrix: Soil

Subcontracted Analysis

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>Units</u>	<u>Batch</u>
Sieve Analysis	See Attached (N/A)								



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DH30911 - 3050B

Blank

Arsenic	ND	1.95	mg/kg wet
Barium	ND	1.95	mg/kg wet
Cadmium	ND	0.39	mg/kg wet
Chromium	ND	0.78	mg/kg wet
Lead	ND	3.91	mg/kg wet
Selenium	ND	3.91	mg/kg wet
Silver	ND	0.39	mg/kg wet

LCS

Arsenic	254	8.06	mg/kg wet	258.0	98	80-120
Barium	780	8.06	mg/kg wet	809.0	96	76-125
Cadmium	305	1.61	mg/kg wet	321.0	95	80-120
Chromium	130	3.23	mg/kg wet	133.0	98	80-120
Lead	100	16.1	mg/kg wet	102.0	98	80-120
Selenium	49.2	16.1	mg/kg wet	49.40	100	80-120
Silver	23.6	1.61	mg/kg wet	22.70	104	80-120

LCS Dup

Arsenic	225	7.35	mg/kg wet	258.0	87	80-120	12	30
Barium	621	7.35	mg/kg wet	809.0	77	76-125	23	30
Cadmium	268	1.47	mg/kg wet	321.0	83	80-120	13	30
Chromium	114	2.94	mg/kg wet	133.0	86	80-120	13	30
Lead	88.4	14.7	mg/kg wet	102.0	87	80-120	12	20
Selenium	44.3	14.7	mg/kg wet	49.40	90	80-120	11	30
Silver	20.4	1.47	mg/kg wet	22.70	90	80-120	15	30

Batch DH30912 - 7471B

Blank

Mercury	ND	0.033	mg/kg wet
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LCS

Mercury	18.7	3.19	mg/kg wet	18.20	103	80-120
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LCS Dup

Mercury	15.6	3.14	mg/kg wet	18.20	86	80-120	18	30
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5035/8260B Volatile Organic Compounds / Low Level

Batch DH30932 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethane	ND	0.0050	mg/kg wet
1,1-Dichloroethene	ND	0.0050	mg/kg wet
1,1-Dichloropropene	ND	0.0050	mg/kg wet
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DH30932 - 5035

1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
1-Chlorohexane	ND	0.0050	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							
Acetone	ND	0.0500	mg/kg wet							
Benzene	ND	0.0050	mg/kg wet							
Bromobenzene	ND	0.0050	mg/kg wet							
Bromochloromethane	ND	0.0050	mg/kg wet							
Bromodichloromethane	ND	0.0050	mg/kg wet							
Bromoform	ND	0.0050	mg/kg wet							
Bromomethane	ND	0.0100	mg/kg wet							
Carbon Disulfide	ND	0.0050	mg/kg wet							
Carbon Tetrachloride	ND	0.0050	mg/kg wet							
Chlorobenzene	ND	0.0050	mg/kg wet							
Chloroethane	ND	0.0100	mg/kg wet							
Chloroform	ND	0.0050	mg/kg wet							
Chloromethane	ND	0.0100	mg/kg wet							
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Dibromochloromethane	ND	0.0050	mg/kg wet							
Dibromomethane	ND	0.0050	mg/kg wet							
Dichlorodifluoromethane	ND	0.0100	mg/kg wet							
Diethyl Ether	ND	0.0050	mg/kg wet							
Di-isopropyl ether	ND	0.0050	mg/kg wet							
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet							
Ethylbenzene	ND	0.0050	mg/kg wet							
Hexachlorobutadiene	ND	0.0050	mg/kg wet							
Isopropylbenzene	ND	0.0050	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DH30932 - 5035

Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet							
Methylene Chloride	ND	0.0250	mg/kg wet							
Naphthalene	ND	0.0050	mg/kg wet							
n-Butylbenzene	ND	0.0050	mg/kg wet							
n-Propylbenzene	ND	0.0050	mg/kg wet							
sec-Butylbenzene	ND	0.0050	mg/kg wet							
Styrene	ND	0.0050	mg/kg wet							
tert-Butylbenzene	ND	0.0050	mg/kg wet							
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet							
Tetrachloroethene	ND	0.0050	mg/kg wet							
Tetrahydrofuran	ND	0.0200	mg/kg wet							
Toluene	ND	0.0050	mg/kg wet							
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet							
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet							
Trichloroethene	ND	0.0050	mg/kg wet							
Trichlorofluoromethane	ND	0.0050	mg/kg wet							
Vinyl Acetate	ND	0.0050	mg/kg wet							
Vinyl Chloride	ND	0.0100	mg/kg wet							
Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0499		mg/kg wet	0.05000		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.0476		mg/kg wet	0.05000		95	70-130			
Surrogate: Dibromofluoromethane	0.0474		mg/kg wet	0.05000		95	70-130			
Surrogate: Toluene-d8	0.0501		mg/kg wet	0.05000		100	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
1,1,1-Trichloroethane	0.0429	0.0050	mg/kg wet	0.05000		86	70-130			
1,1,2,2-Tetrachloroethane	0.0431	0.0050	mg/kg wet	0.05000		86	70-130			
1,1,2-Trichloroethane	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
1,1-Dichloroethane	0.0438	0.0050	mg/kg wet	0.05000		88	70-130			
1,1-Dichloroethene	0.0435	0.0050	mg/kg wet	0.05000		87	70-130			
1,1-Dichloropropene	0.0440	0.0050	mg/kg wet	0.05000		88	70-130			
1,2,3-Trichlorobenzene	0.0484	0.0050	mg/kg wet	0.05000		97	70-130			
1,2,3-Trichloropropane	0.0424	0.0050	mg/kg wet	0.05000		85	70-130			
1,2,4-Trichlorobenzene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130			
1,2,4-Trimethylbenzene	0.0443	0.0050	mg/kg wet	0.05000		89	70-130			
1,2-Dibromo-3-Chloropropane	0.0350	0.0050	mg/kg wet	0.05000		70	70-130			
1,2-Dibromoethane	0.0463	0.0050	mg/kg wet	0.05000		93	70-130			
1,2-Dichlorobenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichloroethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130			
1,2-Dichloropropane	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,3,5-Trimethylbenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130			
1,3-Dichlorobenzene	0.0458	0.0050	mg/kg wet	0.05000		92	70-130			
1,3-Dichloropropane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
1,4-Dichlorobenzene	0.0470	0.0050	mg/kg wet	0.05000		94	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DH30932 - 5035

1,4-Dioxane	0.800	0.100	mg/kg wet	1.000		80	70-130			
1-Chlorohexane	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
2,2-Dichloropropane	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
2-Butanone	0.263	0.0500	mg/kg wet	0.2500		105	70-130			
2-Chlorotoluene	0.0452	0.0050	mg/kg wet	0.05000		90	70-130			
2-Hexanone	0.248	0.0500	mg/kg wet	0.2500		99	70-130			
4-Chlorotoluene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
4-Isopropyltoluene	0.0428	0.0050	mg/kg wet	0.05000		86	70-130			
4-Methyl-2-Pentanone	0.224	0.0500	mg/kg wet	0.2500		90	70-130			
Acetone	0.316	0.0500	mg/kg wet	0.2500		126	70-130			
Benzene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130			
Bromobenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130			
Bromochloromethane	0.0492	0.0050	mg/kg wet	0.05000		98	70-130			
Bromodichloromethane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			
Bromoform	0.0392	0.0050	mg/kg wet	0.05000		78	70-130			
Bromomethane	0.0484	0.0100	mg/kg wet	0.05000		97	70-130			
Carbon Disulfide	0.0433	0.0050	mg/kg wet	0.05000		87	70-130			
Carbon Tetrachloride	0.0412	0.0050	mg/kg wet	0.05000		82	70-130			
Chlorobenzene	0.0457	0.0050	mg/kg wet	0.05000		91	70-130			
Chloroethane	0.0457	0.0100	mg/kg wet	0.05000		91	70-130			
Chloroform	0.0455	0.0050	mg/kg wet	0.05000		91	70-130			
Chloromethane	0.0437	0.0100	mg/kg wet	0.05000		87	70-130			
cis-1,2-Dichloroethene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130			
cis-1,3-Dichloropropene	0.0498	0.0050	mg/kg wet	0.05000		100	70-130			
Dibromochloromethane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130			
Dibromomethane	0.0467	0.0050	mg/kg wet	0.05000		93	70-130			
Dichlorodifluoromethane	0.0359	0.0100	mg/kg wet	0.05000		72	70-130			
Diethyl Ether	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Di-isopropyl ether	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Ethyl tertiary-butyl ether	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
Ethylbenzene	0.0447	0.0050	mg/kg wet	0.05000		89	70-130			
Hexachlorobutadiene	0.0438	0.0050	mg/kg wet	0.05000		88	70-130			
Isopropylbenzene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130			
Methyl tert-Butyl Ether	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Methylene Chloride	0.0457	0.0250	mg/kg wet	0.05000		91	70-130			
Naphthalene	0.0385	0.0050	mg/kg wet	0.05000		77	70-130			
n-Butylbenzene	0.0442	0.0050	mg/kg wet	0.05000		88	70-130			
n-Propylbenzene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130			
sec-Butylbenzene	0.0418	0.0050	mg/kg wet	0.05000		84	70-130			
Styrene	0.0475	0.0050	mg/kg wet	0.05000		95	70-130			
tert-Butylbenzene	0.0439	0.0050	mg/kg wet	0.05000		88	70-130			
Tertiary-amy methyl ether	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
Tetrachloroethene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130			
Tetrahydrofuran	0.0410	0.0200	mg/kg wet	0.05000		82	70-130			
Toluene	0.0459	0.0050	mg/kg wet	0.05000		92	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DH30932 - 5035

trans-1,2-Dichloroethene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130			
trans-1,3-Dichloropropene	0.0469	0.0050	mg/kg wet	0.05000		94	70-130			
Trichloroethene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130			
Trichlorofluoromethane	0.0417	0.0050	mg/kg wet	0.05000		83	70-130			
Vinyl Acetate	0.0411	0.0050	mg/kg wet	0.05000		82	70-130			
Vinyl Chloride	0.0438	0.0100	mg/kg wet	0.05000		88	70-130			
Xylene O	0.0419	0.0050	mg/kg wet	0.05000		84	70-130			
Xylene P,M	0.0840	0.0100	mg/kg wet	0.1000		84	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0475		mg/kg wet	0.05000		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0510		mg/kg wet	0.05000		102	70-130			
Surrogate: Dibromofluoromethane	0.0491		mg/kg wet	0.05000		98	70-130			
Surrogate: Toluene-d8	0.0493		mg/kg wet	0.05000		99	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	0.7	25	
1,1,1-Trichloroethane	0.0421	0.0050	mg/kg wet	0.05000		84	70-130	2	25	
1,1,2,2-Tetrachloroethane	0.0431	0.0050	mg/kg wet	0.05000		86	70-130	0.09	25	
1,1,2-Trichloroethane	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	1	25	
1,1-Dichloroethane	0.0430	0.0050	mg/kg wet	0.05000		86	70-130	2	25	
1,1-Dichloroethene	0.0429	0.0050	mg/kg wet	0.05000		86	70-130	1	25	
1,1-Dichloropropene	0.0430	0.0050	mg/kg wet	0.05000		86	70-130	2	25	
1,2,3-Trichlorobenzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	4	25	
1,2,3-Trichloropropane	0.0424	0.0050	mg/kg wet	0.05000		85	70-130	0.05	25	
1,2,4-Trichlorobenzene	0.0503	0.0050	mg/kg wet	0.05000		101	70-130	4	25	
1,2,4-Trimethylbenzene	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
1,2-Dibromo-3-Chloropropane	0.0369	0.0050	mg/kg wet	0.05000		74	70-130	5	25	
1,2-Dibromoethane	0.0469	0.0050	mg/kg wet	0.05000		94	70-130	1	25	
1,2-Dichlorobenzene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	2	25	
1,2-Dichloroethane	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
1,2-Dichloropropane	0.0447	0.0050	mg/kg wet	0.05000		89	70-130	3	25	
1,3,5-Trimethylbenzene	0.0461	0.0050	mg/kg wet	0.05000		92	70-130	1	25	
1,3-Dichlorobenzene	0.0465	0.0050	mg/kg wet	0.05000		93	70-130	2	25	
1,3-Dichloropropane	0.0483	0.0050	mg/kg wet	0.05000		97	70-130	0.3	25	
1,4-Dichlorobenzene	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
1,4-Dioxane	0.803	0.100	mg/kg wet	1.000		80	70-130	0.3	20	
1-Chlorohexane	0.0451	0.0050	mg/kg wet	0.05000		90	70-130	0.5	25	
2,2-Dichloropropane	0.0442	0.0050	mg/kg wet	0.05000		88	70-130	3	25	
2-Butanone	0.265	0.0500	mg/kg wet	0.2500		106	70-130	0.5	25	
2-Chlorotoluene	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	0.3	25	
2-Hexanone	0.260	0.0500	mg/kg wet	0.2500		104	70-130	5	25	
4-Chlorotoluene	0.0455	0.0050	mg/kg wet	0.05000		91	70-130	0.4	25	
4-Isopropyltoluene	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	2	25	
4-Methyl-2-Pentanone	0.226	0.0500	mg/kg wet	0.2500		90	70-130	0.7	25	
Acetone	0.318	0.0500	mg/kg wet	0.2500		127	70-130	0.5	25	
Benzene	0.0444	0.0050	mg/kg wet	0.05000		89	70-130	2	25	
Bromobenzene	0.0460	0.0050	mg/kg wet	0.05000		92	70-130	0.9	25	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DH30932 - 5035

Bromochloromethane	0.0481	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
Bromodichloromethane	0.0450	0.0050	mg/kg wet	0.05000		90	70-130	2	25	
Bromoform	0.0397	0.0050	mg/kg wet	0.05000		79	70-130	1	25	
Bromomethane	0.0441	0.0100	mg/kg wet	0.05000		88	70-130	9	25	
Carbon Disulfide	0.0423	0.0050	mg/kg wet	0.05000		85	70-130	2	25	
Carbon Tetrachloride	0.0407	0.0050	mg/kg wet	0.05000		81	70-130	1	25	
Chlorobenzene	0.0454	0.0050	mg/kg wet	0.05000		91	70-130	0.7	25	
Chloroethane	0.0436	0.0100	mg/kg wet	0.05000		87	70-130	5	25	
Chloroform	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	2	25	
Chloromethane	0.0404	0.0100	mg/kg wet	0.05000		81	70-130	8	25	
cis-1,2-Dichloroethene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	2	25	
cis-1,3-Dichloropropene	0.0482	0.0050	mg/kg wet	0.05000		96	70-130	3	25	
Dibromochloromethane	0.0486	0.0050	mg/kg wet	0.05000		97	70-130	1	25	
Dibromomethane	0.0459	0.0050	mg/kg wet	0.05000		92	70-130	2	25	
Dichlorodifluoromethane	0.0347	0.0100	mg/kg wet	0.05000		69	70-130	3	25	B-
Diethyl Ether	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
Di-isopropyl ether	0.0475	0.0050	mg/kg wet	0.05000		95	70-130	3	25	
Ethyl tertiary-butyl ether	0.0490	0.0050	mg/kg wet	0.05000		98	70-130	3	25	
Ethylbenzene	0.0446	0.0050	mg/kg wet	0.05000		89	70-130	0.3	25	
Hexachlorobutadiene	0.0462	0.0050	mg/kg wet	0.05000		92	70-130	5	25	
Isopropylbenzene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	1	25	
Methyl tert-Butyl Ether	0.0478	0.0050	mg/kg wet	0.05000		96	70-130	2	25	
Methylene Chloride	0.0442	0.0250	mg/kg wet	0.05000		88	70-130	3	25	
Naphthalene	0.0404	0.0050	mg/kg wet	0.05000		81	70-130	5	25	
n-Butylbenzene	0.0453	0.0050	mg/kg wet	0.05000		91	70-130	2	25	
n-Propylbenzene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	0.8	25	
sec-Butylbenzene	0.0421	0.0050	mg/kg wet	0.05000		84	70-130	0.8	25	
Styrene	0.0476	0.0050	mg/kg wet	0.05000		95	70-130	0.3	25	
tert-Butylbenzene	0.0441	0.0050	mg/kg wet	0.05000		88	70-130	0.6	25	
Tertiary-amyl methyl ether	0.0491	0.0050	mg/kg wet	0.05000		98	70-130	2	25	
Tetrachloroethene	0.0550	0.0050	mg/kg wet	0.05000		110	70-130	14	25	
Tetrahydrofuran	0.0411	0.0200	mg/kg wet	0.05000		82	70-130	0.2	25	
Toluene	0.0445	0.0050	mg/kg wet	0.05000		89	70-130	3	25	
trans-1,2-Dichloroethene	0.0434	0.0050	mg/kg wet	0.05000		87	70-130	3	25	
trans-1,3-Dichloropropene	0.0456	0.0050	mg/kg wet	0.05000		91	70-130	3	25	
Trichloroethene	0.0437	0.0050	mg/kg wet	0.05000		87	70-130	0.8	25	
Trichlorofluoromethane	0.0408	0.0050	mg/kg wet	0.05000		82	70-130	2	25	
Vinyl Acetate	0.0382	0.0050	mg/kg wet	0.05000		76	70-130	7	25	
Vinyl Chloride	0.0421	0.0100	mg/kg wet	0.05000		84	70-130	4	25	
Xylene O	0.0419	0.0050	mg/kg wet	0.05000		84	70-130	0.1	25	
Xylene P,M	0.0842	0.0100	mg/kg wet	0.1000		84	70-130	0.2	25	
Surrogate: 1,2-Dichloroethane-d4	0.0472		mg/kg wet	0.05000		94	70-130			
Surrogate: 4-Bromofluorobenzene	0.0509		mg/kg wet	0.05000		102	70-130			
Surrogate: Dibromofluoromethane	0.0492		mg/kg wet	0.05000		98	70-130			
Surrogate: Toluene-d8	0.0498		mg/kg wet	0.05000		100	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DH30907 - 3546

Blank

4,4'-DDD	ND	0.0025	mg/kg wet							
4,4'-DDD [2C]	ND	0.0025	mg/kg wet							
4,4'-DDE	ND	0.0025	mg/kg wet							
4,4'-DDE [2C]	ND	0.0025	mg/kg wet							
4,4'-DDT	ND	0.0025	mg/kg wet							
4,4'-DDT [2C]	ND	0.0025	mg/kg wet							
Aldrin	ND	0.0025	mg/kg wet							
Aldrin [2C]	ND	0.0025	mg/kg wet							
alpha-BHC	ND	0.0025	mg/kg wet							
alpha-BHC [2C]	ND	0.0025	mg/kg wet							
alpha-Chlordane	ND	0.0025	mg/kg wet							
alpha-Chlordane [2C]	ND	0.0025	mg/kg wet							
beta-BHC	ND	0.0025	mg/kg wet							
beta-BHC [2C]	ND	0.0025	mg/kg wet							
Chlordane (Total)	ND	0.0300	mg/kg wet							
Chlordane (Total) [2C]	ND	0.0300	mg/kg wet							
delta-BHC	ND	0.0025	mg/kg wet							
delta-BHC [2C]	ND	0.0025	mg/kg wet							
Dieldrin	ND	0.0025	mg/kg wet							
Dieldrin [2C]	ND	0.0025	mg/kg wet							
Endosulfan I	ND	0.0025	mg/kg wet							
Endosulfan I [2C]	ND	0.0025	mg/kg wet							
Endosulfan II	ND	0.0025	mg/kg wet							
Endosulfan II [2C]	ND	0.0025	mg/kg wet							
Endosulfan Sulfate	ND	0.0025	mg/kg wet							
Endosulfan Sulfate [2C]	ND	0.0025	mg/kg wet							
Endrin	ND	0.0025	mg/kg wet							
Endrin [2C]	ND	0.0025	mg/kg wet							
Endrin Aldehyde	ND	0.0025	mg/kg wet							
Endrin Aldehyde [2C]	ND	0.0025	mg/kg wet							
Endrin Ketone	ND	0.0025	mg/kg wet							
Endrin Ketone [2C]	ND	0.0025	mg/kg wet							
gamma-BHC (Lindane)	ND	0.0015	mg/kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0015	mg/kg wet							
gamma-Chlordane	ND	0.0025	mg/kg wet							
gamma-Chlordane [2C]	ND	0.0025	mg/kg wet							
Heptachlor	ND	0.0025	mg/kg wet							
Heptachlor [2C]	ND	0.0025	mg/kg wet							
Heptachlor Epoxide	ND	0.0025	mg/kg wet							
Heptachlor Epoxide [2C]	ND	0.0025	mg/kg wet							
Hexachlorobenzene	ND	0.0025	mg/kg wet							
Hexachlorobenzene [2C]	ND	0.0025	mg/kg wet							
Methoxychlor	ND	0.0025	mg/kg wet							
Methoxychlor [2C]	ND	0.0025	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DH30907 - 3546

Toxaphene	ND	0.125	mg/kg wet							
Toxaphene [2C]	ND	0.125	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0129		mg/kg wet	0.01250		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0128		mg/kg wet	0.01250		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.0113		mg/kg wet	0.01250		90	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0123		mg/kg wet	0.01250		98	30-150			

LCS

4,4'-DDD	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
4,4'-DDD [2C]	0.0134	0.0025	mg/kg wet	0.01250		107	40-140			
4,4'-DDE	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
4,4'-DDE [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
4,4'-DDT	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
4,4'-DDT [2C]	0.0133	0.0025	mg/kg wet	0.01250		106	40-140			
Aldrin	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
Aldrin [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
alpha-BHC	0.0115	0.0025	mg/kg wet	0.01250		92	40-140			
alpha-BHC [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
alpha-Chlordane	0.0108	0.0025	mg/kg wet	0.01250		87	40-140			
alpha-Chlordane [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
beta-BHC	0.0109	0.0025	mg/kg wet	0.01250		87	40-140			
beta-BHC [2C]	0.0118	0.0025	mg/kg wet	0.01250		94	40-140			
delta-BHC	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
delta-BHC [2C]	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Dieldrin	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Dieldrin [2C]	0.0141	0.0025	mg/kg wet	0.01250		113	40-140			
Endosulfan I	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
Endosulfan I [2C]	0.0124	0.0025	mg/kg wet	0.01250		99	40-140			
Endosulfan II	0.0120	0.0025	mg/kg wet	0.01250		96	40-140			
Endosulfan II [2C]	0.0130	0.0025	mg/kg wet	0.01250		104	40-140			
Endosulfan Sulfate	0.0122	0.0025	mg/kg wet	0.01250		98	40-140			
Endosulfan Sulfate [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
Endrin	0.0112	0.0025	mg/kg wet	0.01250		89	40-140			
Endrin [2C]	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
Endrin Aldehyde	0.0113	0.0025	mg/kg wet	0.01250		91	40-140			
Endrin Aldehyde [2C]	0.0116	0.0025	mg/kg wet	0.01250		93	40-140			
Endrin Ketone	0.0126	0.0025	mg/kg wet	0.01250		101	40-140			
Endrin Ketone [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140			
gamma-BHC (Lindane)	0.0112	0.0015	mg/kg wet	0.01250		90	40-140			
gamma-BHC (Lindane) [2C]	0.0125	0.0015	mg/kg wet	0.01250		100	40-140			
gamma-Chlordane	0.0129	0.0025	mg/kg wet	0.01250		103	40-140			
gamma-Chlordane [2C]	0.0141	0.0025	mg/kg wet	0.01250		112	40-140			
Heptachlor	0.0111	0.0025	mg/kg wet	0.01250		89	40-140			
Heptachlor [2C]	0.0125	0.0025	mg/kg wet	0.01250		100	40-140			
Heptachlor Epoxide	0.0112	0.0025	mg/kg wet	0.01250		90	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DH30907 - 3546

Heptachlor Epoxide [2C]	0.0127	0.0025	mg/kg wet	0.01250		102	40-140			
Hexachlorobenzene	0.0105	0.0025	mg/kg wet	0.01250		84	40-140			
Hexachlorobenzene [2C]	0.0114	0.0025	mg/kg wet	0.01250		91	40-140			
Methoxychlor	0.0123	0.0025	mg/kg wet	0.01250		98	40-140			
Methoxychlor [2C]	0.0122	0.0025	mg/kg wet	0.01250		97	40-140			
Surrogate: Decachlorobiphenyl	0.0128		mg/kg wet	0.01250		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0128		mg/kg wet	0.01250		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.0111		mg/kg wet	0.01250		89	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0121		mg/kg wet	0.01250		97	30-150			

LCS Dup

4,4'-DDD	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	11	30	
4,4'-DDD [2C]	0.0150	0.0025	mg/kg wet	0.01250		120	40-140	12	30	
4,4'-DDE	0.0120	0.0025	mg/kg wet	0.01250		96	40-140	10	30	
4,4'-DDE [2C]	0.0148	0.0025	mg/kg wet	0.01250		118	40-140	10	30	
4,4'-DDT	0.0143	0.0025	mg/kg wet	0.01250		114	40-140	15	30	
4,4'-DDT [2C]	0.0149	0.0025	mg/kg wet	0.01250		119	40-140	12	30	
Aldrin	0.0127	0.0025	mg/kg wet	0.01250		102	40-140	10	30	
Aldrin [2C]	0.0143	0.0025	mg/kg wet	0.01250		114	40-140	9	30	
alpha-BHC	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	11	30	
alpha-BHC [2C]	0.0138	0.0025	mg/kg wet	0.01250		111	40-140	9	30	
alpha-Chlordane	0.0119	0.0025	mg/kg wet	0.01250		95	40-140	9	30	
alpha-Chlordane [2C]	0.0138	0.0025	mg/kg wet	0.01250		111	40-140	10	30	
beta-BHC	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	12	30	
beta-BHC [2C]	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	9	30	
delta-BHC	0.0129	0.0025	mg/kg wet	0.01250		103	40-140	10	30	
delta-BHC [2C]	0.0141	0.0025	mg/kg wet	0.01250		112	40-140	11	30	
Dieldrin	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	9	30	
Dieldrin [2C]	0.0157	0.0025	mg/kg wet	0.01250		126	40-140	10	30	
Endosulfan I	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	9	30	
Endosulfan I [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	10	30	
Endosulfan II	0.0134	0.0025	mg/kg wet	0.01250		107	40-140	10	30	
Endosulfan II [2C]	0.0145	0.0025	mg/kg wet	0.01250		116	40-140	11	30	
Endosulfan Sulfate	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	11	30	
Endosulfan Sulfate [2C]	0.0145	0.0025	mg/kg wet	0.01250		116	40-140	12	30	
Endrin	0.0124	0.0025	mg/kg wet	0.01250		99	40-140	10	30	
Endrin [2C]	0.0137	0.0025	mg/kg wet	0.01250		109	40-140	11	30	
Endrin Aldehyde	0.0125	0.0025	mg/kg wet	0.01250		100	40-140	10	30	
Endrin Aldehyde [2C]	0.0128	0.0025	mg/kg wet	0.01250		103	40-140	10	30	
Endrin Ketone	0.0141	0.0025	mg/kg wet	0.01250		113	40-140	11	30	
Endrin Ketone [2C]	0.0153	0.0025	mg/kg wet	0.01250		122	40-140	12	30	
gamma-BHC (Lindane)	0.0125	0.0015	mg/kg wet	0.01250		100	40-140	11	30	
gamma-BHC (Lindane) [2C]	0.0138	0.0015	mg/kg wet	0.01250		110	40-140	10	30	
gamma-Chlordane	0.0141	0.0025	mg/kg wet	0.01250		113	40-140	9	30	
gamma-Chlordane [2C]	0.0155	0.0025	mg/kg wet	0.01250		124	40-140	10	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8081B Organochlorine Pesticides

Batch DH30907 - 3546

Heptachlor	0.0126	0.0025	mg/kg wet	0.01250		101	40-140	12	30	
Heptachlor [2C]	0.0137	0.0025	mg/kg wet	0.01250		110	40-140	10	30	
Heptachlor Epoxide	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	9	30	
Heptachlor Epoxide [2C]	0.0140	0.0025	mg/kg wet	0.01250		112	40-140	10	30	
Hexachlorobenzene	0.0114	0.0025	mg/kg wet	0.01250		91	40-140	8	30	
Hexachlorobenzene [2C]	0.0123	0.0025	mg/kg wet	0.01250		99	40-140	8	30	
Methoxychlor	0.0131	0.0025	mg/kg wet	0.01250		105	40-140	6	30	
Methoxychlor [2C]	0.0136	0.0025	mg/kg wet	0.01250		109	40-140	11	30	

Surrogate: Decachlorobiphenyl	0.0136		mg/kg wet	0.01250		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0137		mg/kg wet	0.01250		110	30-150			
Surrogate: Tetrachloro-m-xylene	0.0117		mg/kg wet	0.01250		93	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0127		mg/kg wet	0.01250		101	30-150			

8082A Polychlorinated Biphenyls (PCB)

Batch DH30910 - 3540C

Blank

Aroclor 1016	ND	0.02	mg/kg wet							
Aroclor 1016 [2C]	ND	0.02	mg/kg wet							
Aroclor 1221	ND	0.02	mg/kg wet							
Aroclor 1221 [2C]	ND	0.02	mg/kg wet							
Aroclor 1232	ND	0.02	mg/kg wet							
Aroclor 1232 [2C]	ND	0.02	mg/kg wet							
Aroclor 1242	ND	0.02	mg/kg wet							
Aroclor 1242 [2C]	ND	0.02	mg/kg wet							
Aroclor 1248	ND	0.02	mg/kg wet							
Aroclor 1248 [2C]	ND	0.02	mg/kg wet							
Aroclor 1254	ND	0.02	mg/kg wet							
Aroclor 1254 [2C]	ND	0.02	mg/kg wet							
Aroclor 1260	ND	0.02	mg/kg wet							
Aroclor 1260 [2C]	ND	0.02	mg/kg wet							
Aroclor 1262	ND	0.02	mg/kg wet							
Aroclor 1262 [2C]	ND	0.02	mg/kg wet							
Aroclor 1268	ND	0.02	mg/kg wet							
Aroclor 1268 [2C]	ND	0.02	mg/kg wet							

Surrogate: Decachlorobiphenyl	0.0179		mg/kg wet	0.02500		72	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0185		mg/kg wet	0.02500		74	30-150			
Surrogate: Tetrachloro-m-xylene	0.0175		mg/kg wet	0.02500		70	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0190		mg/kg wet	0.02500		76	30-150			

LCS

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		77	40-140			
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		77	40-140			
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		79	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8082A Polychlorinated Biphenyls (PCB)

Batch DH30910 - 3540C

Surrogate: Decachlorobiphenyl	0.0186		mg/kg wet	0.02500		74	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0193		mg/kg wet	0.02500		77	30-150			
Surrogate: Tetrachloro-m-xylene	0.0194		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0202		mg/kg wet	0.02500		81	30-150			

LCS Dup

Aroclor 1016	0.4	0.02	mg/kg wet	0.5000		79	40-140	2	30	
Aroclor 1016 [2C]	0.4	0.02	mg/kg wet	0.5000		80	40-140	2	30	
Aroclor 1260	0.4	0.02	mg/kg wet	0.5000		83	40-140	8	30	
Aroclor 1260 [2C]	0.4	0.02	mg/kg wet	0.5000		82	40-140	4	30	

Surrogate: Decachlorobiphenyl	0.0190		mg/kg wet	0.02500		76	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0196		mg/kg wet	0.02500		78	30-150			
Surrogate: Tetrachloro-m-xylene	0.0196		mg/kg wet	0.02500		79	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0203		mg/kg wet	0.02500		81	30-150			

8100M Total Petroleum Hydrocarbons

Batch DH30806 - 3546

Blank

Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							

Surrogate: O-Terphenyl	4.16		mg/kg wet	5.000		83	40-140			
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LCS

Decane (C10)	1.6	0.2	mg/kg wet	2.500		65	40-140			
Docosane (C22)	2.0	0.2	mg/kg wet	2.500		78	40-140			
Dodecane (C12)	1.7	0.2	mg/kg wet	2.500		68	40-140			
Eicosane (C20)	2.0	0.2	mg/kg wet	2.500		78	40-140			
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140			
Hexadecane (C16)	1.8	0.2	mg/kg wet	2.500		72	40-140			
Nonadecane (C19)	2.0	0.2	mg/kg wet	2.500		81	40-140			
Nonane (C9)	1.4	0.2	mg/kg wet	2.500		55	30-140			
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		85	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8100M Total Petroleum Hydrocarbons

Batch DH30806 - 3546

Octadecane (C18)	1.9	0.2	mg/kg wet	2.500		75	40-140			
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		76	40-140			
Tetradecane (C14)	1.7	0.2	mg/kg wet	2.500		69	40-140			
Total Petroleum Hydrocarbons	27.5	37.5	mg/kg wet	35.00		79	40-140			
Triacontane (C30)	2.2	0.2	mg/kg wet	2.500		88	40-140			

<i>Surrogate: O-Terphenyl</i>	<i>3.84</i>		mg/kg wet	<i>5.000</i>		<i>77</i>	<i>40-140</i>			
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LCS Dup

Decane (C10)	1.6	0.2	mg/kg wet	2.500		65	40-140	0.3	25	
Docosane (C22)	2.0	0.2	mg/kg wet	2.500		80	40-140	2	25	
Dodecane (C12)	1.7	0.2	mg/kg wet	2.500		70	40-140	2	25	
Eicosane (C20)	2.0	0.2	mg/kg wet	2.500		81	40-140	3	25	
Hexacosane (C26)	2.1	0.2	mg/kg wet	2.500		84	40-140	0.03	25	
Hexadecane (C16)	1.9	0.2	mg/kg wet	2.500		76	40-140	4	25	
Nonadecane (C19)	2.0	0.2	mg/kg wet	2.500		80	40-140	0.7	25	
Nonane (C9)	1.4	0.2	mg/kg wet	2.500		55	30-140	0.03	25	
Octacosane (C28)	2.1	0.2	mg/kg wet	2.500		83	40-140	2	25	
Octadecane (C18)	1.9	0.2	mg/kg wet	2.500		77	40-140	3	25	
Tetracosane (C24)	1.9	0.2	mg/kg wet	2.500		77	40-140	1	25	
Tetradecane (C14)	1.8	0.2	mg/kg wet	2.500		72	40-140	5	25	
Total Petroleum Hydrocarbons	27.6	37.5	mg/kg wet	35.00		79	40-140	0.3	25	
Triacontane (C30)	2.1	0.2	mg/kg wet	2.500		86	40-140	3	25	

<i>Surrogate: O-Terphenyl</i>	<i>3.98</i>		mg/kg wet	<i>5.000</i>		<i>80</i>	<i>40-140</i>			
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8270D Semi-Volatile Organic Compounds

Batch DH30805 - 3546

Blank

1,1-Biphenyl	ND	0.025	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.250	mg/kg wet							
1,2-Dichlorobenzene	ND	0.250	mg/kg wet							
1,3-Dichlorobenzene	ND	0.250	mg/kg wet							
1,4-Dichlorobenzene	ND	0.250	mg/kg wet							
2,3,4,6-Tetrachlorophenol	ND	0.250	mg/kg wet							
2,4,5-Trichlorophenol	ND	0.250	mg/kg wet							
2,4,6-Trichlorophenol	ND	0.250	mg/kg wet							
2,4-Dichlorophenol	ND	0.250	mg/kg wet							
2,4-Dimethylphenol	ND	0.250	mg/kg wet							
2,4-Dinitrophenol	ND	1.00	mg/kg wet							
2,4-Dinitrotoluene	ND	0.250	mg/kg wet							
2,6-Dinitrotoluene	ND	0.250	mg/kg wet							
2-Chloronaphthalene	ND	0.250	mg/kg wet							
2-Chlorophenol	ND	0.250	mg/kg wet							
2-Methylnaphthalene	ND	0.250	mg/kg wet							
2-Methylphenol	ND	0.250	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DH30805 - 3546

2-Nitroaniline	ND	0.500	mg/kg wet							
2-Nitrophenol	ND	0.500	mg/kg wet							
3,3'-Dichlorobenzidine	ND	0.250	mg/kg wet							
3+4-Methylphenol	ND	0.250	mg/kg wet							
3-Nitroaniline	ND	0.500	mg/kg wet							
4,6-Dinitro-2-Methylphenol	ND	1.00	mg/kg wet							
4-Bromophenyl-phenylether	ND	0.250	mg/kg wet							
4-Chloro-3-Methylphenol	ND	0.250	mg/kg wet							
4-Chloroaniline	ND	0.250	mg/kg wet							
4-Chloro-phenyl-phenyl ether	ND	0.250	mg/kg wet							
4-Nitroaniline	ND	0.500	mg/kg wet							
4-Nitrophenol	ND	1.00	mg/kg wet							
Acenaphthene	ND	0.250	mg/kg wet							
Acenaphthylene	ND	0.250	mg/kg wet							
Acetophenone	ND	0.250	mg/kg wet							
Aniline	ND	0.250	mg/kg wet							
Anthracene	ND	0.250	mg/kg wet							
Azobenzene	ND	0.250	mg/kg wet							
Benzo(a)anthracene	ND	0.250	mg/kg wet							
Benzo(a)pyrene	ND	0.250	mg/kg wet							
Benzo(b)fluoranthene	ND	0.250	mg/kg wet							
Benzo(g,h,i)perylene	ND	0.250	mg/kg wet							
Benzo(k)fluoranthene	ND	0.250	mg/kg wet							
Benzoic Acid	ND	2.50	mg/kg wet							
Benzyl Alcohol	ND	0.500	mg/kg wet							
bis(2-Chloroethoxy)methane	ND	0.250	mg/kg wet							
bis(2-Chloroethyl)ether	ND	0.250	mg/kg wet							
bis(2-chloroisopropyl)Ether	ND	0.250	mg/kg wet							
bis(2-Ethylhexyl)phthalate	ND	0.250	mg/kg wet							
Butylbenzylphthalate	ND	0.250	mg/kg wet							
Carbazole	ND	0.250	mg/kg wet							
Chrysene	ND	0.250	mg/kg wet							
Dibenzo(a,h)Anthracene	ND	0.250	mg/kg wet							
Dibenzofuran	ND	0.250	mg/kg wet							
Diethylphthalate	ND	0.250	mg/kg wet							
Dimethylphthalate	ND	0.250	mg/kg wet							
Di-n-butylphthalate	ND	0.250	mg/kg wet							
Di-n-octylphthalate	ND	0.500	mg/kg wet							
Fluoranthene	ND	0.250	mg/kg wet							
Fluorene	ND	0.250	mg/kg wet							
Hexachlorobenzene	ND	0.250	mg/kg wet							
Hexachlorobutadiene	ND	0.250	mg/kg wet							
Hexachlorocyclopentadiene	ND	0.500	mg/kg wet							
Hexachloroethane	ND	0.250	mg/kg wet							
Indeno(1,2,3-cd)Pyrene	ND	0.250	mg/kg wet							



CERTIFICATE OF ANALYSIS

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Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DH30805 - 3546

Isophorone	ND	0.250	mg/kg wet							
Naphthalene	ND	0.250	mg/kg wet							
Nitrobenzene	ND	0.250	mg/kg wet							
N-Nitrosodimethylamine	ND	0.250	mg/kg wet							
N-Nitroso-Di-n-Propylamine	ND	0.250	mg/kg wet							
N-nitrosodiphenylamine	ND	0.250	mg/kg wet							
Pentachlorophenol	ND	1.00	mg/kg wet							
Phenanthrene	ND	0.250	mg/kg wet							
Phenol	ND	0.250	mg/kg wet							
Pyrene	ND	0.250	mg/kg wet							
Pyridine	ND	0.250	mg/kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	2.06		mg/kg wet	3.125		66	30-130			
Surrogate: 2,4,6-Tribromophenol	4.87		mg/kg wet	4.688		104	30-130			
Surrogate: 2-Chlorophenol-d4	3.00		mg/kg wet	4.688		64	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/kg wet	3.125		70	30-130			
Surrogate: 2-Fluorophenol	3.03		mg/kg wet	4.688		65	30-130			
Surrogate: Nitrobenzene-d5	2.29		mg/kg wet	3.125		73	30-130			
Surrogate: Phenol-d6	3.18		mg/kg wet	4.688		68	30-130			
Surrogate: p-Terphenyl-d14	2.33		mg/kg wet	3.125		75	30-130			

LCS

1,1-Biphenyl	2.02	0.025	mg/kg wet	2.500		81	40-140			
1,2,4-Trichlorobenzene	2.08	0.250	mg/kg wet	2.500		83	40-140			
1,2-Dichlorobenzene	2.05	0.250	mg/kg wet	2.500		82	40-140			
1,3-Dichlorobenzene	1.98	0.250	mg/kg wet	2.500		79	40-140			
1,4-Dichlorobenzene	1.99	0.250	mg/kg wet	2.500		80	40-140			
2,3,4,6-Tetrachlorophenol	2.86	0.250	mg/kg wet	2.500		115	30-130			
2,4,5-Trichlorophenol	2.63	0.250	mg/kg wet	2.500		105	30-130			
2,4,6-Trichlorophenol	2.47	0.250	mg/kg wet	2.500		99	30-130			
2,4-Dichlorophenol	2.25	0.250	mg/kg wet	2.500		90	30-130			
2,4-Dimethylphenol	2.82	0.250	mg/kg wet	2.500		113	30-130			
2,4-Dinitrophenol	2.38	1.00	mg/kg wet	2.500		95	30-130			
2,4-Dinitrotoluene	2.34	0.250	mg/kg wet	2.500		94	40-140			
2,6-Dinitrotoluene	2.36	0.250	mg/kg wet	2.500		94	40-140			
2-Chloronaphthalene	2.21	0.250	mg/kg wet	2.500		88	40-140			
2-Chlorophenol	2.00	0.250	mg/kg wet	2.500		80	30-130			
2-Methylnaphthalene	2.10	0.250	mg/kg wet	2.500		84	40-140			
2-Methylphenol	2.07	0.250	mg/kg wet	2.500		83	30-130			
2-Nitroaniline	2.14	0.500	mg/kg wet	2.500		86	40-140			
2-Nitrophenol	2.18	0.500	mg/kg wet	2.500		87	30-130			
3,3'-Dichlorobenzidine	2.28	0.250	mg/kg wet	2.500		91	40-140			
3+4-Methylphenol	4.29	0.250	mg/kg wet	5.000		86	30-130			
3-Nitroaniline	2.20	0.500	mg/kg wet	2.500		88	40-140			
4,6-Dinitro-2-Methylphenol	2.58	1.00	mg/kg wet	2.500		103	30-130			
4-Bromophenyl-phenylether	2.57	0.250	mg/kg wet	2.500		103	40-140			
4-Chloro-3-Methylphenol	2.32	0.250	mg/kg wet	2.500		93	30-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DH30805 - 3546

4-Chloroaniline	2.04	0.250	mg/kg wet	2.500		81	40-140			
4-Chloro-phenyl-phenyl ether	2.51	0.250	mg/kg wet	2.500		100	40-140			
4-Nitroaniline	2.18	0.500	mg/kg wet	2.500		87	40-140			
4-Nitrophenol	2.65	1.00	mg/kg wet	2.500		106	30-130			
Acenaphthene	2.17	0.250	mg/kg wet	2.500		87	40-140			
Acenaphthylene	2.13	0.250	mg/kg wet	2.500		85	40-140			
Acetophenone	1.89	0.250	mg/kg wet	2.500		76	40-140			
Aniline	2.15	0.250	mg/kg wet	2.500		86	40-140			
Anthracene	2.33	0.250	mg/kg wet	2.500		93	40-140			
Azobenzene	2.03	0.250	mg/kg wet	2.500		81	40-140			
Benzo(a)anthracene	2.39	0.250	mg/kg wet	2.500		95	40-140			
Benzo(a)pyrene	2.52	0.250	mg/kg wet	2.500		101	40-140			
Benzo(b)fluoranthene	2.31	0.250	mg/kg wet	2.500		93	40-140			
Benzo(g,h,i)perylene	2.44	0.250	mg/kg wet	2.500		98	40-140			
Benzo(k)fluoranthene	2.25	0.250	mg/kg wet	2.500		90	40-140			
Benzoic Acid	3.52	2.50	mg/kg wet	2.500		141	40-140			B+
Benzyl Alcohol	1.84	0.500	mg/kg wet	2.500		74	40-140			
bis(2-Chloroethoxy)methane	1.78	0.250	mg/kg wet	2.500		71	40-140			
bis(2-Chloroethyl)ether	1.75	0.250	mg/kg wet	2.500		70	40-140			
bis(2-chloroisopropyl)Ether	1.74	0.250	mg/kg wet	2.500		70	40-140			
bis(2-Ethylhexyl)phthalate	1.96	0.250	mg/kg wet	2.500		78	40-140			
Butylbenzylphthalate	2.01	0.250	mg/kg wet	2.500		81	40-140			
Carbazole	2.29	0.250	mg/kg wet	2.500		91	40-140			
Chrysene	2.45	0.250	mg/kg wet	2.500		98	40-140			
Dibenzo(a,h)Anthracene	2.45	0.250	mg/kg wet	2.500		98	40-140			
Dibenzofuran	2.23	0.250	mg/kg wet	2.500		89	40-140			
Diethylphthalate	2.27	0.250	mg/kg wet	2.500		91	40-140			
Dimethylphthalate	2.27	0.250	mg/kg wet	2.500		91	40-140			
Di-n-butylphthalate	2.16	0.250	mg/kg wet	2.500		86	40-140			
Di-n-octylphthalate	1.99	0.500	mg/kg wet	2.500		79	40-140			
Fluoranthene	2.57	0.250	mg/kg wet	2.500		103	40-140			
Fluorene	2.30	0.250	mg/kg wet	2.500		92	40-140			
Hexachlorobenzene	2.74	0.250	mg/kg wet	2.500		110	40-140			
Hexachlorobutadiene	2.44	0.250	mg/kg wet	2.500		98	40-140			
Hexachlorocyclopentadiene	2.80	0.500	mg/kg wet	2.500		112	40-140			
Hexachloroethane	1.92	0.250	mg/kg wet	2.500		77	40-140			
Indeno(1,2,3-cd)Pyrene	2.44	0.250	mg/kg wet	2.500		97	40-140			
Isophorone	1.84	0.250	mg/kg wet	2.500		74	40-140			
Naphthalene	1.92	0.250	mg/kg wet	2.500		77	40-140			
Nitrobenzene	2.14	0.250	mg/kg wet	2.500		85	40-140			
N-Nitrosodimethylamine	1.95	0.250	mg/kg wet	2.500		78	40-140			
N-Nitroso-Di-n-Propylamine	2.02	0.250	mg/kg wet	2.500		81	40-140			
N-nitrosodiphenylamine	1.89	0.250	mg/kg wet	2.500		76	40-140			
Pentachlorophenol	2.67	1.00	mg/kg wet	2.500		107	30-130			
Phenanthrene	2.27	0.250	mg/kg wet	2.500		91	40-140			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DH30805 - 3546

Phenol	2.05	0.250	mg/kg wet	2.500		82	30-130			
Pyrene	2.28	0.250	mg/kg wet	2.500		91	40-140			
Pyridine	2.11	0.250	mg/kg wet	2.500		84	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	2.04		mg/kg wet	3.125		65	30-130			
Surrogate: 2,4,6-Tribromophenol	5.21		mg/kg wet	4.688		111	30-130			
Surrogate: 2-Chlorophenol-d4	3.01		mg/kg wet	4.688		64	30-130			
Surrogate: 2-Fluorobiphenyl	2.25		mg/kg wet	3.125		72	30-130			
Surrogate: 2-Fluorophenol	3.00		mg/kg wet	4.688		64	30-130			
Surrogate: Nitrobenzene-d5	2.01		mg/kg wet	3.125		64	30-130			
Surrogate: Phenol-d6	3.11		mg/kg wet	4.688		66	30-130			
Surrogate: p-Terphenyl-d14	2.39		mg/kg wet	3.125		77	30-130			

LCS Dup

1,1-Biphenyl	2.03	0.025	mg/kg wet	2.500		81	40-140	0.5	30	
1,2,4-Trichlorobenzene	2.01	0.250	mg/kg wet	2.500		80	40-140	3	30	
1,2-Dichlorobenzene	1.98	0.250	mg/kg wet	2.500		79	40-140	3	30	
1,3-Dichlorobenzene	1.97	0.250	mg/kg wet	2.500		79	40-140	0.7	30	
1,4-Dichlorobenzene	1.95	0.250	mg/kg wet	2.500		78	40-140	2	30	
2,3,4,6-Tetrachlorophenol	2.73	0.250	mg/kg wet	2.500		109	30-130	5	30	
2,4,5-Trichlorophenol	2.59	0.250	mg/kg wet	2.500		104	30-130	1	30	
2,4,6-Trichlorophenol	2.42	0.250	mg/kg wet	2.500		97	30-130	2	30	
2,4-Dichlorophenol	2.26	0.250	mg/kg wet	2.500		91	30-130	0.4	30	
2,4-Dimethylphenol	2.84	0.250	mg/kg wet	2.500		114	30-130	0.9	30	
2,4-Dinitrophenol	2.20	1.00	mg/kg wet	2.500		88	30-130	8	30	
2,4-Dinitrotoluene	2.26	0.250	mg/kg wet	2.500		90	40-140	4	30	
2,6-Dinitrotoluene	2.41	0.250	mg/kg wet	2.500		96	40-140	2	30	
2-Chloronaphthalene	2.17	0.250	mg/kg wet	2.500		87	40-140	2	30	
2-Chlorophenol	1.94	0.250	mg/kg wet	2.500		78	30-130	3	30	
2-Methylnaphthalene	2.07	0.250	mg/kg wet	2.500		83	40-140	2	30	
2-Methylphenol	2.04	0.250	mg/kg wet	2.500		81	30-130	2	30	
2-Nitroaniline	2.05	0.500	mg/kg wet	2.500		82	40-140	4	30	
2-Nitrophenol	2.15	0.500	mg/kg wet	2.500		86	30-130	1	30	
3,3'-Dichlorobenzidine	2.27	0.250	mg/kg wet	2.500		91	40-140	0.7	30	
3+4-Methylphenol	4.25	0.250	mg/kg wet	5.000		85	30-130	0.8	30	
3-Nitroaniline	2.14	0.500	mg/kg wet	2.500		86	40-140	3	30	
4,6-Dinitro-2-Methylphenol	2.46	1.00	mg/kg wet	2.500		98	30-130	5	30	
4-Bromophenyl-phenylether	2.55	0.250	mg/kg wet	2.500		102	40-140	0.8	30	
4-Chloro-3-Methylphenol	2.27	0.250	mg/kg wet	2.500		91	30-130	2	30	
4-Chloroaniline	2.03	0.250	mg/kg wet	2.500		81	40-140	0.2	30	
4-Chloro-phenyl-phenyl ether	2.44	0.250	mg/kg wet	2.500		98	40-140	3	30	
4-Nitroaniline	2.12	0.500	mg/kg wet	2.500		85	40-140	2	30	
4-Nitrophenol	2.59	1.00	mg/kg wet	2.500		104	30-130	3	30	
Acenaphthene	2.10	0.250	mg/kg wet	2.500		84	40-140	3	30	
Acenaphthylene	2.06	0.250	mg/kg wet	2.500		83	40-140	3	30	
Acetophenone	1.88	0.250	mg/kg wet	2.500		75	40-140	0.5	30	
Aniline	2.01	0.250	mg/kg wet	2.500		81	40-140	6	30	



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DH30805 - 3546

Anthracene	2.26	0.250	mg/kg wet	2.500		90	40-140	3	30	
Azobenzene	1.95	0.250	mg/kg wet	2.500		78	40-140	4	30	
Benzo(a)anthracene	2.32	0.250	mg/kg wet	2.500		93	40-140	3	30	
Benzo(a)pyrene	2.47	0.250	mg/kg wet	2.500		99	40-140	2	30	
Benzo(b)fluoranthene	2.34	0.250	mg/kg wet	2.500		94	40-140	1	30	
Benzo(g,h,i)perylene	2.36	0.250	mg/kg wet	2.500		94	40-140	4	30	
Benzo(k)fluoranthene	2.18	0.250	mg/kg wet	2.500		87	40-140	3	30	
Benzoic Acid	3.44	2.50	mg/kg wet	2.500		137	40-140	3	30	
Benzyl Alcohol	1.81	0.500	mg/kg wet	2.500		73	40-140	1	30	
bis(2-Chloroethoxy)methane	1.76	0.250	mg/kg wet	2.500		70	40-140	1	30	
bis(2-Chloroethyl)ether	1.79	0.250	mg/kg wet	2.500		72	40-140	2	30	
bis(2-chloroisopropyl)Ether	1.77	0.250	mg/kg wet	2.500		71	40-140	2	30	
bis(2-Ethylhexyl)phthalate	1.92	0.250	mg/kg wet	2.500		77	40-140	2	30	
Butylbenzylphthalate	2.00	0.250	mg/kg wet	2.500		80	40-140	0.9	30	
Carbazole	2.21	0.250	mg/kg wet	2.500		88	40-140	4	30	
Chrysene	2.41	0.250	mg/kg wet	2.500		96	40-140	2	30	
Dibenzo(a,h)Anthracene	2.39	0.250	mg/kg wet	2.500		96	40-140	2	30	
Dibenzofuran	2.16	0.250	mg/kg wet	2.500		87	40-140	3	30	
Diethylphthalate	2.22	0.250	mg/kg wet	2.500		89	40-140	2	30	
Dimethylphthalate	2.19	0.250	mg/kg wet	2.500		88	40-140	3	30	
Di-n-butylphthalate	2.13	0.250	mg/kg wet	2.500		85	40-140	1	30	
Di-n-octylphthalate	1.98	0.500	mg/kg wet	2.500		79	40-140	0.5	30	
Fluoranthene	2.48	0.250	mg/kg wet	2.500		99	40-140	3	30	
Fluorene	2.26	0.250	mg/kg wet	2.500		90	40-140	2	30	
Hexachlorobenzene	2.74	0.250	mg/kg wet	2.500		110	40-140	0.09	30	
Hexachlorobutadiene	2.43	0.250	mg/kg wet	2.500		97	40-140	0.5	30	
Hexachlorocyclopentadiene	2.86	0.500	mg/kg wet	2.500		114	40-140	2	30	
Hexachloroethane	1.90	0.250	mg/kg wet	2.500		76	40-140	0.7	30	
Indeno(1,2,3-cd)Pyrene	2.36	0.250	mg/kg wet	2.500		94	40-140	3	30	
Isophorone	1.85	0.250	mg/kg wet	2.500		74	40-140	0.3	30	
Naphthalene	1.89	0.250	mg/kg wet	2.500		76	40-140	1	30	
Nitrobenzene	2.13	0.250	mg/kg wet	2.500		85	40-140	0.3	30	
N-Nitrosodimethylamine	1.91	0.250	mg/kg wet	2.500		77	40-140	2	30	
N-Nitroso-Di-n-Propylamine	1.98	0.250	mg/kg wet	2.500		79	40-140	2	30	
N-nitrosodiphenylamine	1.83	0.250	mg/kg wet	2.500		73	40-140	4	30	
Pentachlorophenol	2.68	1.00	mg/kg wet	2.500		107	30-130	0.6	30	
Phenanthrene	2.21	0.250	mg/kg wet	2.500		88	40-140	3	30	
Phenol	2.04	0.250	mg/kg wet	2.500		82	30-130	0.3	30	
Pyrene	2.25	0.250	mg/kg wet	2.500		90	40-140	1	30	
Pyridine	2.10	0.250	mg/kg wet	2.500		84	40-140	0.4	30	
Surrogate: 1,2-Dichlorobenzene-d4	2.02		mg/kg wet	3.125		65	30-130			
Surrogate: 2,4,6-Tribromophenol	4.95		mg/kg wet	4.688		106	30-130			
Surrogate: 2-Chlorophenol-d4	2.98		mg/kg wet	4.688		64	30-130			
Surrogate: 2-Fluorobiphenyl	2.20		mg/kg wet	3.125		71	30-130			
Surrogate: 2-Fluorophenol	2.98		mg/kg wet	4.688		64	30-130			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
 Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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8270D Semi-Volatile Organic Compounds

Batch DH30805 - 3546

Surrogate: Nitrobenzene-d5	1.99		mg/kg wet	3.125		64	30-130			
Surrogate: Phenol-d6	3.13		mg/kg wet	4.688		67	30-130			
Surrogate: p-Terphenyl-d14	2.37		mg/kg wet	3.125		76	30-130			

Classical Chemistry

Batch DH30848 - General Preparation

Reference										
Flashpoint	82		°F	81.00		101	97.9-102.1			

Batch DH30941 - General Preparation

Blank										
Conductivity	ND	5	umhos/cm							
LCS										
Conductivity	1280		umhos/cm	1411		91	90-110			



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation

Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

Notes and Definitions

- Z-10 Soil pH measured in water at 20.8 °C.
- Z-08 See Attached
- WL Results obtained from a deionized water leach of the sample.
- U Analyte included in the analysis, but not detected
- Q Calibration required quadratic regression (Q).
- ICV- Initial Calibration Verification recovery is below lower control limit (ICV-).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- B+ Blank Spike recovery is above upper control limit (B+).
- B- Blank Spike recovery is below lower control limit (B-).
- > Greater than.
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probable Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Pare Corporation
Client Project ID: Stockpile Characterization

ESS Laboratory Work Order: 23H0254

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>



195 Frances Avenue
 Cranston RI, 02910
 Phone: (401)-467-6454
 Fax: (401)-467-2398
cts.thielsch.com
Let's Build a Solid Foundation

Client Information:
 Downes Construction Co.
 Providence, RI
 Project Manager: Joe Desanti
 Assigned By: Joe Desanti
 Collected By: Andrew Hook

Project Information:
Stockpile Characterization
Newport, RI
 Project Number: 21106.00
 Summary Page: 1 of 1
 Report Date: 08.15.23

LABORATORY TESTING DATA SHEET, Report No.: 7423-H-158

Source	Sample No.	Depth (ft)	Laboratory No.	Identification Tests								Proctor / CBR / Permeability Tests							Laboratory Log and Soil Description	
				As Rcvd Moisture Content %	LL %	PL %	Gravel %	Sand %	Fines %	Org. %	pH	g_d MAX (pcf) W_{opt} (%)	g_d MAX (pcf) W_{opt} (%) (Corr.)	Dry unit wt. (pcf)	Test Moisture Content %	Target Test Setup as % of Proctor	CBR @ 0.1"	CBR @ 0.2"		Permeability cm/sec
				D2216	D4318	D6913			D2974	D4792	D1557									
Grab	DISP-401A	-	23H0254-01				17.2	43.3	39.5											Brown silty sand with gravel

Date Received: 08.10.23

Reviewed By: *Andrew Hook*

Date Reviewed: 08.16.23

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Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	17.2	5.9	14.6	22.8	39.5	

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4"	100.0		
1/2"	93.0		
3/8"	89.9		
#4	82.8		
#10	76.9		
#20	69.7		
#40	62.3		
#60	55.1		
#100	47.8		
#200	39.5		

Soil Description

Brown silty sand with gravel

Atterberg Limits
 PL= NP LL= NV PI= NP

Coefficients
 D₉₀= 9.6192 D₈₅= 5.9899 D₆₀= 0.3553
 D₅₀= 0.1757 D₃₀= D₁₅=
 D₁₀= C_u= C_c=

Classification
 USCS= SM AASHTO= A-4(0)

Remarks

Sample visually classified as non-plastic.

* (no specification provided)

Source of Sample: Grab
 Sample Number: DISP-401A

Date: 08.14.23

Thielsch Engineering Inc. Cranston, RI	Client: Downes Construction Co. Project: Stockpile Characterization Newport, RI Project No: 21106.00
Figure 23H0254-01	

Tested By: JB Checked By: Andrew Vanasse

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS
 Shipped/Delivered Via: Client

ESS Project ID: 23H0254
 Date Received: 8/8/2023
 Project Due Date: 8/15/2023
 Days for Project: 5 Day

1. Air bill manifest present? No
 Air No.: NA
2. Were custody seals present? No
3. Is radiation count <100 CPM? Yes
4. Is a Cooler Present? Yes
 Temp: 2 Iced with: Ice
5. Was COC signed and dated by client? Yes

6. Does COC match bottles? Yes
7. Is COC complete and correct? Yes
8. Were samples received intact? Yes
9. Were labs informed about **short holds & rushes**? Yes / No / NA
10. Were any analyses received outside of hold time? Yes No

11. Any Subcontracting needed? Yes / No
 ESS Sample IDs: _____
 Analysis: Sierra
 TAT: STD

12. Were VOAs received? Yes / No
 a. Air bubbles in aqueous VOAs? Yes / No
 b. Does methanol cover soil completely? Yes / No / NA

13. Are the samples properly preserved? Yes / No
 a. If metals preserved upon receipt: Date: _____ Time: _____ By/Acid Lot#: _____
 b. Low Level VOA vials frozen: Date: 8/8/23 Time: 1720 By: TO

Sample Receiving Notes:

14. Was there a need to contact Project Manager? Yes / No
 a. Was there a need to contact the client? Yes / No
 Who was contacted? _____ Date: _____ Time: _____ By: _____

Resolution: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	460861	Yes	N/A	Yes	VOA Vial	MeOH	
1	460862	Yes	N/A	Yes	VOA Vial	DI Water	
1	460863	Yes	N/A	Yes	VOA Vial	DI Water	
1	460864	Yes	N/A	Yes	8 oz jar	NP	
1	460865	Yes	N/A	Yes	8 oz jar	NP	
1	460866	Yes	N/A	Yes	8 oz jar	NP	
1	460867	Yes	N/A	Yes	Driller Jar	NP	

2nd Review

Were all containers scanned into storage/lab?

- Are barcode labels on correct containers? Yes / No
- Are all Flashpoint stickers attached/container ID # circled? Yes / No / NA
- Are all Hex Chrome stickers attached? Yes / No / NA
- Are all QC stickers attached? Yes / No / NA
- Are VOA stickers attached if bubbles noted? Yes / No / NA

Initials: [Signature]

Completed By: [Signature] Date & Time: 8/8/23 11:12

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS

ESS Project ID: 23H0254

Date Received: 8/8/2023

Reviewed

By:



Date & Time:

8/8/23 1723



185 Frances Avenue
Cranston, RI 02910
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 23H0254 Page 1 of 1
ELECTRONIC DELIVERABLES (Final Reports are PDF)
 Limit Checker State Forms EQuIS
 Excel State Upload Enviro Data
 CLP-Like Package Other (Specify) →

Turn Time (Days) > 5 5 4 3 2 1 Same Day
 Regulatory State: Rhode Island Criteria: R-DEC, GA-LC
 Is this project for any of the following?:
 CT RCP MA MCP RGP Permit 401 WQ

CLIENT INFORMATION		
Client: Joe Desanti, Downes Construction Co.		
Address: 10 Dorrance Street Providence, RI		
Phone: (860) 229-3755		
Email Distribution List: abarton@parecorp.com tthies@parecorp.com mflynn@parecorp.com		

PROJECT INFORMATION		
Project Name:	Stockpile Characterization	
Project Location:	Rogers High, Newport, RI	
Project Number:	21106.00	
Project Manager:	Tim Thies, Pare Corporation	
Bill to:	jdesanti@downesco.com	
PO#:	21106.00	
Quote#:		

Client acknowledges that sampling is compliant with all EPA / State regulatory programs

REQUESTED ANALYSES												Total Number of Bottles
VOCs (8260)	SVOCs (8270)	TPH (8100M)	RCRA 8 Metals (6010/7141)	Organochlorine Pesticides (8081)	PCBs (8082)	pH	Flashpoint	Conductivity	Sieve			
X	X	X	X	X	X	X	X	X	X			7

Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial V J J J J J J J J
 Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other* 7 8 8 8 8 8 8 8 8 8
 Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAce, NaOH 9-NH4Cl 10-DI H2O 11-Other* 9 10 1 1 1 1 1 1 1 1 1

Sampled by : Andrew Hook (sign) **Chain needs to be filled out neatly and completely for on time delivery.**

Laboratory Use Only Cooler Temperature (°C): <u>20 Ice</u>	Comments: * Please specify "Other" preservative and containers types in this space Glassware: 2 x 8oz non-pres ambers, 2 x 40mL Stir Bar VOAs, 1 x 40mL MeOH VOA, 1 8-oz bag	All samples submitted are subject to ESS Laboratory's payment terms and conditions. <input type="checkbox"/> Lab Filter

Relinquished by (Signature)	Date	Time	Received by (Signature)	Relinquished by (Signature)	Date	Time	Received by (Signature)
<u>Andrew Hook</u>	<u>08/08/2023</u>	<u>1035</u>	<u>[Signature]</u>				