



Illinois Environmental Protection Agency

1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276 • (217) 782-3397

Uncontaminated Soil Certification

**by Licensed Professional Engineer or Licensed Professional Geologist
for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663**

Revised in accordance with 35 Ill. Adm. Code 1100, as
amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: City of Geneva 2024 Street Improvements Office Phone Number, if available: _____

Physical Site Location (address, including number and street):

East Side Drive, Geneva, IL

City: Geneva State: IL Zip Code: 60134

County: Kane Township: Geneva

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.89528 Longitude: - 88.29124

(Decimal Degrees)

(-Decimal Degrees)

Identify how the lat/long data were determined:

☒ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☐ Other

IEPA Site Number(s), if assigned: BOL: _____ BOW: _____ BOA: _____

Approximate Start Date (mm/dd/yyyy): _____ Approximate End Date (mm/dd/yyyy): _____

Estimated Volume of debris (cu. Yd.): _____

II. Owner/Operator Information for Source Site

Site Owner

Name: City of Geneva-Public Works Department

Street Address: 1800 South Street

PO Box: _____

City: Geneva State: IL

Zip Code: 60134 Phone: (630) 232-1279

Contact: Mr. Elton Orozco

Email, if available: corozco@geneva.il.us

Site Operator

Name: City of Geneva-Public Works Department

Street Address: 1800 South Street

PO Box: _____

City: Geneva State: IL

Zip Code: 60305 Phone: (630) 232-1279

Contact: Mr. Elton Orozco

Email, if available: corozco@geneva.il.us

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Uncontaminated Soil Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

- a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

One grab sample was collected by NST representative, at about 12" deep from the surface at East Side Dr. Sample was then tested by Eurofins Test America Laboratories in order to determine, if the material is in compliance with CCDD requirements. We understand that client will export approximately 1,000 cubic yards of the material from this location.

- b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0, including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201 (g), 1100.205(a), 1100.610]:

See attached report for material and tested by Eurofins Test America Laboratories. Initially, the Iron, Manganese (within and non-MSA County) & Thallium concentration were out. After additional TCLP tests, all analyses are within the maximum allowable limits.

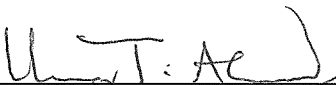
IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Umar T. Ahmad (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

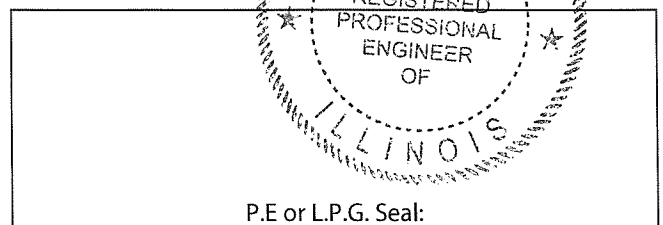
Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: NASHnal Soil Testing, LLC
Street Address: 23856 W. Andrew Road, Unit 103
City: Plainfield State: IL Zip Code: 60585
Phone: 630-780-5201

Umar. T. Ahmad, PE
Printed Name:


Licensed Professional Engineer or
Licensed Professional Geologist Signature:

7/29/2024
Date:



ANALYTICAL REPORT

PREPARED FOR

Attn: Umar T Ahmad
NASHnal Soil Testing, LLC
23856 W. Andrew Road
Unit 103
Plainfield, Illinois 60585

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JOB DESCRIPTION

2024 Street Improvement
East Side Drive, Geneva, IL

JOB NUMBER

500-253377-1

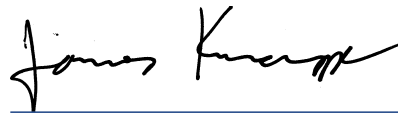
Eurofins Chicago

Job Notes

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

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

Authorization



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Authorized for release by
Jim Knapp, Senior Project Manager
Jim.Knapp@et.eurofinsus.com
(630)758-0262

Table of Contents

Cover Page	1
Table of Contents	3
Case Narrative	4
Detection Summary	5
Method Summary	6
Sample Summary	7
Client Sample Results	8
Definitions	12
QC Association	13
Surrogate Summary	16
QC Sample Results	18
Chronicle	29
Certification Summary	30
Chain of Custody	31
Receipt Checklists	32



Case Narrative

Client: NASHnal Soil Testing, LLC
Project: 2024 Street Improvement

Job ID: 500-253377-1

Job ID: 500-253377-1

Eurofins Chicago

Job Narrative 500-253377-1

Receipt

The sample was received on 7/11/2024 3:47 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 27.9° C.

GC/MS VOA

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: ESD (500-253377-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-776328 and analytical batch 500-776569 recovered outside control limits for the following analytes: Acetone.

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

GC/MS Semi VOA

Method 8270E: The continuing calibration verification (CCV) analyzed in 500-776671 was outside the method criteria for the following analyte(s): Dibenz(a,h)anthracene, Di-n-octyl phthalate and Indeno[1,2,3-cd]pyrene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

GC Semi VOA

Method 8082A: DCB Decachlorobiphenyl surrogate recovery for the following samples was outside control limits: (500-253434-D-33-C MSD). Tetrachloro-m-xylene surrogate was within the control limits; therefore, re-extraction and/or re-analysis was not performed.

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

Metals

Method 6010D: The continuing calibration blanks for analytical batch 777052 contained Ba greater than the reporting limit (RL). The associated samples were not reanalyzed because they had results greater than 10X the CCB levels. The data have been qualified and reported.

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

General Chemistry

Method 9012B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-776957 and analytical batch 500-777409 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Organic Prep

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

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Detection Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Client Sample ID: ESD

Lab Sample ID: 500-253377-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	0.050		0.041	0.0087	mg/Kg	1	✱		8270E	Total/NA
Benzo[a]pyrene	0.074		0.041	0.039	mg/Kg	1	✱		8270E	Total/NA
Benzo[b]fluoranthene	0.074		0.041	0.039	mg/Kg	1	✱		8270E	Total/NA
Benzo[g,h,i]perylene	0.060		0.041	0.0088	mg/Kg	1	✱		8270E	Total/NA
Benzo[k]fluoranthene	0.075		0.041	0.015	mg/Kg	1	✱		8270E	Total/NA
Chrysene	0.076		0.041	0.011	mg/Kg	1	✱		8270E	Total/NA
Fluoranthene	0.13		0.041	0.0095	mg/Kg	1	✱		8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.063		0.041	0.040	mg/Kg	1	✱		8270E	Total/NA
Pyrene	0.10		0.041	0.011	mg/Kg	1	✱		8270E	Total/NA
4,4'-DDE	0.0050		0.0020	0.0010	mg/Kg	1	✱		8081B	Total/NA
4,4'-DDT	0.0024		0.0020	0.00095	mg/Kg	1	✱		8081B	Total/NA
Dieldrin	0.0023		0.0020	0.0010	mg/Kg	1	✱		8081B	Total/NA
Aluminum	12000		23	9.4	mg/Kg	1	✱		6010D	Total/NA
Arsenic	8.2		1.2	0.39	mg/Kg	1	✱		6010D	Total/NA
Barium	120	^2	1.2	0.13	mg/Kg	1	✱		6010D	Total/NA
Cadmium	0.27		0.23	0.042	mg/Kg	1	✱		6010D	Total/NA
Calcium	26000		23	3.9	mg/Kg	1	✱		6010D	Total/NA
Chromium	19		1.2	0.57	mg/Kg	1	✱		6010D	Total/NA
Cobalt	11		0.58	0.15	mg/Kg	1	✱		6010D	Total/NA
Copper	17		1.2	0.32	mg/Kg	1	✱		6010D	Total/NA
Iron	19000		23	12	mg/Kg	1	✱		6010D	Total/NA
Lead	38		0.58	0.27	mg/Kg	1	✱		6010D	Total/NA
Magnesium	14000		12	5.7	mg/Kg	1	✱		6010D	Total/NA
Manganese	850		1.2	0.17	mg/Kg	1	✱		6010D	Total/NA
Nickel	20		1.2	0.34	mg/Kg	1	✱		6010D	Total/NA
Potassium	1900		58	20	mg/Kg	1	✱		6010D	Total/NA
Sodium	580		120	17	mg/Kg	1	✱		6010D	Total/NA
Thallium	3.9		1.2	0.58	mg/Kg	1	✱		6010D	Total/NA
Vanadium	35		0.58	0.14	mg/Kg	1	✱		6010D	Total/NA
Zinc	70		2.3	1.0	mg/Kg	1	✱		6010D	Total/NA
Iron	0.49		0.20	0.20	mg/L	1			6010D	TCLP
Mercury	0.075		0.020	0.0081	mg/Kg	1	✱		7471B	Total/NA
pH	8.5		0.2	0.2	SU	1			9045D	Total/NA

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
8081B	Organochlorine Pesticides (GC)	SW846	EET CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9012B	Cyanide, Total and/or Amenable	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3541	Automated Soxhlet Extraction	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI
9010C	Cyanide, Distillation	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-253377-1	ESD	Solid	07/11/24 11:10	07/11/24 15:47

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

Client Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Client Sample ID: ESD

Lab Sample ID: 500-253377-1

Date Collected: 07/11/24 11:10

Matrix: Solid

Date Received: 07/11/24 15:47

Percent Solids: 79.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0017		0.0017	0.00070	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,1,2-Trichloroethane	<0.0017		0.0017	0.00065	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,1-Dichloroethane	<0.0017		0.0017	0.00065	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,1-Dichloroethene	<0.0017		0.0017	0.00071	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,2-Dibromo-3-Chloropropane	<0.0043		0.0043	0.0030	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,2-Dibromoethane	<0.0017		0.0017	0.00073	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,2-Dichloroethane	<0.0043		0.0043	0.0011	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,2-Dichloropropane	<0.0017		0.0017	0.00045	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
1,3-Dichloropropene, Total	<0.0017		0.0017	0.00083	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
2-Butanone (MEK)	<0.0043		0.0043	0.0019	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Acetone	<0.017	*1	0.017	0.0072	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Benzene	<0.0017		0.0017	0.00054	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Bromodichloromethane	<0.0017		0.0017	0.00055	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Bromoform	<0.0017		0.0017	0.0010	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Bromomethane	<0.0043		0.0043	0.0021	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Carbon disulfide	<0.0043		0.0043	0.00079	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Carbon tetrachloride	<0.0017		0.0017	0.00059	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Chlorobenzene	<0.0017		0.0017	0.00073	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Chloroform	<0.0017		0.0017	0.0012	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
cis-1,2-Dichloroethene	<0.0017		0.0017	0.00070	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Dibromochloromethane	<0.0017		0.0017	0.00080	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Ethylbenzene	<0.0017		0.0017	0.00091	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
m&p-Xylene	<0.0035		0.0035	0.00054	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Methyl tert-butyl ether	<0.0017		0.0017	0.00056	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Methylene Chloride	<0.0043		0.0043	0.0018	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
n-Butyl alcohol	<0.11		0.11	0.066	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
o-Xylene	<0.0017		0.0017	0.00059	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Styrene	<0.0017		0.0017	0.00078	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Tetrachloroethene	<0.0017		0.0017	0.00097	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Toluene	<0.0017		0.0017	0.00035	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
trans-1,2-Dichloroethene	<0.0017		0.0017	0.00065	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Trichloroethene	<0.0017		0.0017	0.00047	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Vinyl acetate	<0.0043		0.0043	0.0010	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Vinyl chloride	<0.0017		0.0017	0.00071	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1
Xylenes, Total	<0.0035		0.0035	0.00059	mg/Kg	☆	07/11/24 19:10	07/15/24 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	144	S1+	70 - 134	07/11/24 19:10	07/15/24 00:51	1
4-Bromofluorobenzene (Surr)	122		75 - 131	07/11/24 19:10	07/15/24 00:51	1
Dibromofluoromethane	123		75 - 126	07/11/24 19:10	07/15/24 00:51	1
Toluene-d8 (Surr)	102		75 - 124	07/11/24 19:10	07/15/24 00:51	1

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.041		0.041	0.0083	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Acenaphthylene	<0.041		0.041	0.0069	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Aldicarb	<0.82		0.82	0.41	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Anthracene	<0.041		0.041	0.0083	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Benzo[a]anthracene	0.050		0.041	0.0087	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Benzo[a]pyrene	0.074		0.041	0.039	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1

Eurofins Chicago

Client Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Client Sample ID: ESD

Lab Sample ID: 500-253377-1

Date Collected: 07/11/24 11:10

Matrix: Solid

Date Received: 07/11/24 15:47

Percent Solids: 79.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	0.074		0.041	0.039	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Benzo[g,h,i]perylene	0.060		0.041	0.0088	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Benzoic acid	<2.1		2.1	0.25	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Benzo[k]fluoranthene	0.075		0.041	0.015	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Bis(2-chloroethyl)ether	<0.21		0.21	0.019	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Bis(2-ethylhexyl) phthalate	<0.21		0.21	0.16	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Butyl benzyl phthalate	<0.21		0.21	0.020	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Carbazole	<0.21		0.21	0.016	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Carbofuran	<0.82		0.82	0.21	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
4-Chloroaniline	<0.82		0.82	0.43	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2-Chlorophenol	<0.21		0.21	0.013	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Chrysene	0.076		0.041	0.011	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Dibenz(a,h)anthracene	<0.041		0.041	0.041	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
1,2-Dichlorobenzene	<0.21		0.21	0.017	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
1,4-Dichlorobenzene	<0.21		0.21	0.019	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
3,3'-Dichlorobenzidine	<0.21		0.21	0.033	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2,4-Dichlorophenol	<0.41		0.41	0.014	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Diethyl phthalate	<0.21		0.21	0.019	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2,4-Dimethylphenol	<0.41		0.41	0.091	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Di-n-butyl phthalate	<0.21		0.21	0.013	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2,4-Dinitrophenol	<0.82		0.82	0.24	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2,4-Dinitrotoluene	<0.21		0.21	0.023	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2,6-Dinitrotoluene	<0.21		0.21	0.014	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Di-n-octyl phthalate	<0.41		0.41	0.29	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Fluoranthene	0.13		0.041	0.0095	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Fluorene	<0.041		0.041	0.012	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Hexachlorobenzene	<0.082		0.082	0.0078	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Hexachlorocyclopentadiene	<0.82		0.82	0.43	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Hexachloroethane	<0.21		0.21	0.020	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Indeno[1,2,3-cd]pyrene	0.063		0.041	0.040	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Isophorone	<0.21		0.21	0.021	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2-Methylphenol	<0.21		0.21	0.022	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Naphthalene	<0.041		0.041	0.0074	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Nitrobenzene	<0.041		0.041	0.013	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
4-Nitrophenol	<0.82		0.82	0.15	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
N-Nitrosodi-n-propylamine	<0.082		0.082	0.0081	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
N-Nitrosodiphenylamine	<0.21		0.21	0.024	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Phenanthrene	<0.041		0.041	0.0089	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Phenol	<0.21		0.21	0.018	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
Pyrene	0.10		0.041	0.011	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
1,2,4-Trichlorobenzene	<0.21		0.21	0.029	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2,4,5-Trichlorophenol	<0.41		0.41	0.015	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1
2,4,6-Trichlorophenol	<0.41		0.41	0.014	mg/Kg	☆	07/12/24 16:22	07/15/24 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	91		43 - 145	07/12/24 16:22	07/15/24 11:30	1
2-Fluorophenol	87		31 - 166	07/12/24 16:22	07/15/24 11:30	1
Nitrobenzene-d5	85		37 - 147	07/12/24 16:22	07/15/24 11:30	1
Phenol-d5	87		30 - 153	07/12/24 16:22	07/15/24 11:30	1
Terphenyl-d14	92		42 - 157	07/12/24 16:22	07/15/24 11:30	1

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Client Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Client Sample ID: ESD

Lab Sample ID: 500-253377-1

Date Collected: 07/11/24 11:10

Matrix: Solid

Date Received: 07/11/24 15:47

Percent Solids: 79.7

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		31 - 143	07/12/24 16:22	07/15/24 11:30	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	<0.020		0.020	0.0015	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Aldrin	<0.0020		0.0020	0.0014	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
alpha-BHC	<0.0020		0.0020	0.0011	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Chlordane (technical)	<0.0080		0.0080	0.0038	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
4,4'-DDD	<0.0020		0.0020	0.0011	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
4,4'-DDE	0.0050		0.0020	0.0010	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
4,4'-DDT	0.0024		0.0020	0.00095	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Dieldrin	0.0023		0.0020	0.0010	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Endosulfan I	<0.0020		0.0020	0.0011	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Endosulfan II	<0.0020		0.0020	0.0011	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Endrin	<0.0020		0.0020	0.0010	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
gamma-BHC (Lindane)	<0.0020		0.0020	0.0010	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Heptachlor	<0.0020		0.0020	0.0011	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Heptachlor epoxide	<0.0020		0.0020	0.0011	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Methoxychlor	<0.0099		0.0099	0.0013	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1
Toxaphene	<0.020		0.020	0.0080	mg/Kg	☆	07/12/24 15:16	07/16/24 19:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		33 - 148	07/12/24 15:16	07/16/24 19:31	1
Tetrachloro-m-xylene	59		30 - 121	07/12/24 15:16	07/16/24 19:31	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.020		0.020	0.0078	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1
PCB-1221	<0.020		0.020	0.0078	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1
PCB-1232	<0.020		0.020	0.0054	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1
PCB-1242	<0.020		0.020	0.0077	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1
PCB-1248	<0.020		0.020	0.0094	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1
PCB-1254	<0.020		0.020	0.0067	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1
PCB-1260	<0.020		0.020	0.0075	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1
Polychlorinated biphenyls, Total	<0.020		0.020	0.0054	mg/Kg	☆	07/12/24 15:16	07/16/24 11:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		49 - 129	07/12/24 15:16	07/16/24 11:49	1
DCB Decachlorobiphenyl	96		37 - 121	07/12/24 15:16	07/16/24 11:49	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000		23	9.4	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Antimony	<2.3		2.3	0.45	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1
Arsenic	8.2		1.2	0.39	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Barium	120	^2	1.2	0.13	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Beryllium	<0.46		0.46	0.11	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Cadmium	0.27		0.23	0.042	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Calcium	26000		23	3.9	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Chromium	19		1.2	0.57	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1

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Client Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Client Sample ID: ESD

Lab Sample ID: 500-253377-1

Date Collected: 07/11/24 11:10

Matrix: Solid

Date Received: 07/11/24 15:47

Percent Solids: 79.7

Method: SW846 6010D - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	11		0.58	0.15	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1
Copper	17		1.2	0.32	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1
Iron	19000		23	12	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Lead	38		0.58	0.27	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Magnesium	14000		12	5.7	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1
Manganese	850		1.2	0.17	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Nickel	20		1.2	0.34	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1
Potassium	1900		58	20	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Selenium	<1.2		1.2	0.68	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1
Silver	<0.58		0.58	0.15	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Sodium	580		120	17	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Thallium	3.9		1.2	0.58	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Vanadium	35		0.58	0.14	mg/Kg	☆	07/15/24 11:03	07/17/24 00:19	1
Zinc	70		2.3	1.0	mg/Kg	☆	07/15/24 11:03	07/17/24 21:05	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/18/24 09:16	07/19/24 15:35	1
Barium	<0.50		0.50	0.050	mg/L		07/18/24 09:16	07/19/24 15:35	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/18/24 09:16	07/19/24 15:35	1
Chromium	<0.025		0.025	0.010	mg/L		07/18/24 09:16	07/19/24 15:35	1
Iron	0.49		0.20	0.20	mg/L		07/18/24 09:16	07/19/24 15:35	1
Lead	<0.050		0.050	0.0075	mg/L		07/18/24 09:16	07/19/24 15:35	1
Selenium	<0.050		0.050	0.020	mg/L		07/18/24 09:16	07/19/24 15:35	1
Silver	<0.025		0.025	0.010	mg/L		07/18/24 09:16	07/19/24 15:35	1

Method: SW846 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/24 11:20	07/22/24 08:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.020	0.0081	mg/Kg	☆	07/17/24 16:40	07/19/24 14:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.29		0.29	0.15	mg/Kg	☆	07/16/24 16:24	07/18/24 15:45	1
pH (SW846 9045D)	8.5		0.2	0.2	SU			07/17/24 17:58	1

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Definitions/Glossary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

GC/MS VOA

Prep Batch: 776328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	5035	

Analysis Batch: 776569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	8260D	776328
MB 500-776569/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-776569/5	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-776569/28	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 776526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	3546	
MB 500-776526/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-776526/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 776671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	8270E	776526
MB 500-776526/1-A	Method Blank	Total/NA	Solid	8270E	776526
LCS 500-776526/2-A	Lab Control Sample	Total/NA	Solid	8270E	776526

GC Semi VOA

Prep Batch: 776509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	3541	
MB 500-776509/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-776509/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-776509/3-A	Lab Control Sample	Total/NA	Solid	3541	
500-253377-1 MS	ESD	Total/NA	Solid	3541	
500-253377-1 MSD	ESD	Total/NA	Solid	3541	

Analysis Batch: 776871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	8082A	776509
MB 500-776509/1-A	Method Blank	Total/NA	Solid	8082A	776509
LCS 500-776509/3-A	Lab Control Sample	Total/NA	Solid	8082A	776509

Analysis Batch: 776877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	8081B	776509
MB 500-776509/1-A	Method Blank	Total/NA	Solid	8081B	776509
LCS 500-776509/2-A	Lab Control Sample	Total/NA	Solid	8081B	776509
500-253377-1 MS	ESD	Total/NA	Solid	8081B	776509
500-253377-1 MSD	ESD	Total/NA	Solid	8081B	776509

QC Association Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Metals

Prep Batch: 776709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	3050B	
MB 500-776709/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-776709/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 776914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	TCLP	Solid	1311	
LB 500-776914/1-B	Method Blank	TCLP	Solid	1311	
LB 500-776914/1-C	Method Blank	TCLP	Solid	1311	

Analysis Batch: 777052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	6010D	776709
MB 500-776709/1-A	Method Blank	Total/NA	Solid	6010D	776709
LCS 500-776709/2-A	Lab Control Sample	Total/NA	Solid	6010D	776709

Prep Batch: 777171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	7471B	
MB 500-777171/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-777171/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 777298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	6010D	776709
MB 500-776709/1-A	Method Blank	Total/NA	Solid	6010D	776709
LCS 500-776709/2-A	Lab Control Sample	Total/NA	Solid	6010D	776709

Prep Batch: 777310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	TCLP	Solid	3010A	776914
LB 500-776914/1-B	Method Blank	TCLP	Solid	3010A	776914
LCS 500-777310/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 777533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	TCLP	Solid	7470A	776914
LB 500-776914/1-C	Method Blank	TCLP	Solid	7470A	776914
MB 500-777533/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-777533/13-A	Lab Control Sample	Total/NA	Solid	7470A	
LCSD 500-777533/28-A	Lab Control Sample Dup	Total/NA	Solid	7470A	

Analysis Batch: 777568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	7471B	777171
MB 500-777171/12-A	Method Blank	Total/NA	Solid	7471B	777171
LCS 500-777171/13-A	Lab Control Sample	Total/NA	Solid	7471B	777171

Analysis Batch: 777734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	TCLP	Solid	6010D	777310

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QC Association Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Metals (Continued)

Analysis Batch: 777734 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 500-776914/1-B	Method Blank	TCLP	Solid	6010D	777310
LCS 500-777310/2-A	Lab Control Sample	Total/NA	Solid	6010D	777310

Analysis Batch: 777794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	TCLP	Solid	7470A	777533
LB 500-776914/1-C	Method Blank	TCLP	Solid	7470A	777533
MB 500-777533/12-A	Method Blank	Total/NA	Solid	7470A	777533
LCS 500-777533/13-A	Lab Control Sample	Total/NA	Solid	7470A	777533
LCSD 500-777533/28-A	Lab Control Sample Dup	Total/NA	Solid	7470A	777533

General Chemistry

Prep Batch: 776957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	9010C	
MB 500-776957/1-A	Method Blank	Total/NA	Solid	9010C	
LCS 500-776957/2-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 777169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	Moisture	
500-253377-1 DU	ESD	Total/NA	Solid	Moisture	

Analysis Batch: 777295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	9045D	
LCS 500-777295/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-777295/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 777409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-253377-1	ESD	Total/NA	Solid	9012B	776957
MB 500-776957/1-A	Method Blank	Total/NA	Solid	9012B	776957
LCS 500-776957/2-A	Lab Control Sample	Total/NA	Solid	9012B	776957

Surrogate Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-134)	BFB (75-131)	DBFM (75-126)	TOL (75-124)
500-253377-1	ESD	144 S1+	122	123	102
LCS 500-776569/5	Lab Control Sample	129	100	115	100
LCSD 500-776569/28	Lab Control Sample Dup	122	99	115	100
MB 500-776569/7	Method Blank	132	104	120	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (43-145)	2FP (31-166)	NBZ (37-147)	PHL (30-153)	TPHL (42-157)	TBP (31-143)
500-253377-1	ESD	91	87	85	87	92	90
LCS 500-776526/2-A	Lab Control Sample	78	76	75	72	78	78
MB 500-776526/1-A	Method Blank	84	84	82	79	89	75

Surrogate Legend

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol

NBZ = Nitrobenzene-d5

PHL = Phenol-d5

TPHL = Terphenyl-d14

TBP = 2,4,6-Tribromophenol

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1 (33-148)	TCX1 (30-121)
500-253377-1	ESD	92	59
500-253377-1 MS	ESD	72	56
500-253377-1 MSD	ESD	81	52
LCS 500-776509/2-A	Lab Control Sample	75	69
MB 500-776509/1-A	Method Blank	71	60

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-253377-1	ESD	76	96

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Surrogate Summary

Client: NASHnal Soil Testing, LLC

Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
LCS 500-776509/3-A	Lab Control Sample	61	67
MB 500-776509/1-A	Method Blank	51	57
Surrogate Legend			
TCX = Tetrachloro-m-xylene			
DCBP = DCB Decachlorobiphenyl			

QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

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

Lab Sample ID: MB 500-776569/7

Matrix: Solid

Analysis Batch: 776569

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.0020		0.0020	0.00081	mg/Kg			07/14/24 23:14	1
1,1,2-Trichloroethane	<0.0020		0.0020	0.00075	mg/Kg			07/14/24 23:14	1
1,1-Dichloroethane	<0.0020		0.0020	0.00075	mg/Kg			07/14/24 23:14	1
1,1-Dichloroethene	<0.0020		0.0020	0.00082	mg/Kg			07/14/24 23:14	1
1,2-Dibromo-3-Chloropropane	<0.0050		0.0050	0.0035	mg/Kg			07/14/24 23:14	1
1,2-Dibromoethane	<0.0020		0.0020	0.00084	mg/Kg			07/14/24 23:14	1
1,2-Dichloroethane	<0.0050		0.0050	0.0013	mg/Kg			07/14/24 23:14	1
1,2-Dichloropropane	<0.0020		0.0020	0.00052	mg/Kg			07/14/24 23:14	1
1,3-Dichloropropene, Total	<0.0020		0.0020	0.00096	mg/Kg			07/14/24 23:14	1
2-Butanone (MEK)	<0.0050		0.0050	0.0022	mg/Kg			07/14/24 23:14	1
Acetone	<0.020		0.020	0.0084	mg/Kg			07/14/24 23:14	1
Benzene	<0.0020		0.0020	0.00063	mg/Kg			07/14/24 23:14	1
Bromodichloromethane	<0.0020		0.0020	0.00064	mg/Kg			07/14/24 23:14	1
Bromoform	<0.0020		0.0020	0.0012	mg/Kg			07/14/24 23:14	1
Bromomethane	<0.0050		0.0050	0.0025	mg/Kg			07/14/24 23:14	1
Carbon disulfide	<0.0050		0.0050	0.00092	mg/Kg			07/14/24 23:14	1
Carbon tetrachloride	<0.0020		0.0020	0.00068	mg/Kg			07/14/24 23:14	1
Chlorobenzene	<0.0020		0.0020	0.00084	mg/Kg			07/14/24 23:14	1
Chloroform	<0.0020		0.0020	0.0014	mg/Kg			07/14/24 23:14	1
cis-1,2-Dichloroethene	<0.0020		0.0020	0.00081	mg/Kg			07/14/24 23:14	1
Dibromochloromethane	<0.0020		0.0020	0.00093	mg/Kg			07/14/24 23:14	1
Ethylbenzene	<0.0020		0.0020	0.0011	mg/Kg			07/14/24 23:14	1
m&p-Xylene	<0.0040		0.0040	0.00063	mg/Kg			07/14/24 23:14	1
Methyl tert-butyl ether	<0.0020		0.0020	0.00065	mg/Kg			07/14/24 23:14	1
Methylene Chloride	<0.0050		0.0050	0.0021	mg/Kg			07/14/24 23:14	1
n-Butyl alcohol	<0.13		0.13	0.076	mg/Kg			07/14/24 23:14	1
o-Xylene	<0.0020		0.0020	0.00069	mg/Kg			07/14/24 23:14	1
Styrene	<0.0020		0.0020	0.00090	mg/Kg			07/14/24 23:14	1
Tetrachloroethene	<0.0020		0.0020	0.0011	mg/Kg			07/14/24 23:14	1
Toluene	<0.0020		0.0020	0.00040	mg/Kg			07/14/24 23:14	1
trans-1,2-Dichloroethene	<0.0020		0.0020	0.00076	mg/Kg			07/14/24 23:14	1
Trichloroethene	<0.0020		0.0020	0.00054	mg/Kg			07/14/24 23:14	1
Vinyl acetate	<0.0050		0.0050	0.0012	mg/Kg			07/14/24 23:14	1
Vinyl chloride	<0.0020		0.0020	0.00082	mg/Kg			07/14/24 23:14	1
Xylenes, Total	<0.0040		0.0040	0.00069	mg/Kg			07/14/24 23:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132		70 - 134		07/14/24 23:14	1
4-Bromofluorobenzene (Surr)	104		75 - 131		07/14/24 23:14	1
Dibromofluoromethane	120		75 - 126		07/14/24 23:14	1
Toluene-d8 (Surr)	94		75 - 124		07/14/24 23:14	1

Lab Sample ID: LCS 500-776569/5

Matrix: Solid

Analysis Batch: 776569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	0.0500	0.0584		mg/Kg		117	70 - 128

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

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

Lab Sample ID: LCS 500-776569/5

Matrix: Solid

Analysis Batch: 776569

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloroethane	0.0500	0.0418		mg/Kg		84	70 - 125
1,1-Dichloroethane	0.0500	0.0495		mg/Kg		99	70 - 125
1,1-Dichloroethene	0.0500	0.0474		mg/Kg		95	70 - 120
1,2-Dibromo-3-Chloropropane	0.0500	0.0517		mg/Kg		103	60 - 136
1,2-Dibromoethane	0.0500	0.0450		mg/Kg		90	70 - 125
1,2-Dichloroethane	0.0500	0.0570		mg/Kg		114	70 - 130
1,2-Dichloropropane	0.0500	0.0450		mg/Kg		90	70 - 125
2-Butanone (MEK)	0.0500	0.0441		mg/Kg		88	47 - 138
Acetone	0.0500	0.0529		mg/Kg		106	40 - 150
Benzene	0.0500	0.0468		mg/Kg		94	70 - 125
Bromodichloromethane	0.0500	0.0495		mg/Kg		99	67 - 129
Bromoform	0.0500	0.0507		mg/Kg		101	68 - 136
Bromomethane	0.0500	0.0506		mg/Kg		101	70 - 130
Carbon disulfide	0.0500	0.0442		mg/Kg		88	70 - 129
Carbon tetrachloride	0.0500	0.0587		mg/Kg		117	75 - 125
Chlorobenzene	0.0500	0.0415		mg/Kg		83	50 - 150
Chloroform	0.0500	0.0566		mg/Kg		113	57 - 135
cis-1,2-Dichloroethene	0.0500	0.0490		mg/Kg		98	70 - 125
Dibromochloromethane	0.0500	0.0458		mg/Kg		92	69 - 125
Ethylbenzene	0.0500	0.0440		mg/Kg		88	61 - 136
Methyl tert-butyl ether	0.0500	0.0600		mg/Kg		120	50 - 140
Methylene Chloride	0.0500	0.0454		mg/Kg		91	70 - 126
Styrene	0.0500	0.0459		mg/Kg		92	70 - 125
Tetrachloroethene	0.0500	0.0473		mg/Kg		95	70 - 124
Toluene	0.0500	0.0418		mg/Kg		84	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0483		mg/Kg		97	70 - 125
Trichloroethene	0.0500	0.0512		mg/Kg		102	70 - 125
Vinyl acetate	0.0500	0.0516		mg/Kg		103	40 - 153
Vinyl chloride	0.0500	0.0403		mg/Kg		81	70 - 125
Xylenes, Total	0.100	0.0907		mg/Kg		91	53 - 147

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	129		70 - 134
4-Bromofluorobenzene (Surr)	100		75 - 131
Dibromofluoromethane	115		75 - 126
Toluene-d8 (Surr)	100		75 - 124

Lab Sample ID: LCSD 500-776569/28

Matrix: Solid

Analysis Batch: 776569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0500	0.0602		mg/Kg		120	70 - 128	3	30
1,1,2-Trichloroethane	0.0500	0.0394		mg/Kg		79	70 - 125	6	30
1,1-Dichloroethane	0.0500	0.0496		mg/Kg		99	70 - 125	0	30
1,1-Dichloroethene	0.0500	0.0488		mg/Kg		98	70 - 120	3	30
1,2-Dibromo-3-Chloropropane	0.0500	0.0445		mg/Kg		89	60 - 136	15	30
1,2-Dibromoethane	0.0500	0.0423		mg/Kg		85	70 - 125	6	30

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

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

Lab Sample ID: LCSD 500-776569/28

Matrix: Solid

Analysis Batch: 776569

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloroethane	0.0500	0.0546		mg/Kg		109	70 - 130	4	30
1,2-Dichloropropane	0.0500	0.0437		mg/Kg		87	70 - 125	3	30
2-Butanone (MEK)	0.0500	0.0336		mg/Kg		67	47 - 138	27	30
Acetone	0.0500	0.0335	*1	mg/Kg		67	40 - 150	45	30
Benzene	0.0500	0.0469		mg/Kg		94	70 - 125	0	30
Bromodichloromethane	0.0500	0.0480		mg/Kg		96	67 - 129	3	30
Bromoform	0.0500	0.0479		mg/Kg		96	68 - 136	6	30
Bromomethane	0.0500	0.0517		mg/Kg		103	70 - 130	2	30
Carbon disulfide	0.0500	0.0457		mg/Kg		91	70 - 129	3	30
Carbon tetrachloride	0.0500	0.0604		mg/Kg		121	75 - 125	3	30
Chlorobenzene	0.0500	0.0431		mg/Kg		86	50 - 150	4	30
Chloroform	0.0500	0.0562		mg/Kg		112	57 - 135	1	30
cis-1,2-Dichloroethene	0.0500	0.0485		mg/Kg		97	70 - 125	1	30
Dibromochloromethane	0.0500	0.0438		mg/Kg		88	69 - 125	4	30
Ethylbenzene	0.0500	0.0452		mg/Kg		90	61 - 136	3	30
Methyl tert-butyl ether	0.0500	0.0564		mg/Kg		113	50 - 140	6	30
Methylene Chloride	0.0500	0.0455		mg/Kg		91	70 - 126	0	30
Styrene	0.0500	0.0478		mg/Kg		96	70 - 125	4	30
Tetrachloroethene	0.0500	0.0493		mg/Kg		99	70 - 124	4	30
Toluene	0.0500	0.0428		mg/Kg		86	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0495		mg/Kg		99	70 - 125	2	30
Trichloroethene	0.0500	0.0508		mg/Kg		102	70 - 125	1	30
Vinyl acetate	0.0500	0.0470		mg/Kg		94	40 - 153	9	30
Vinyl chloride	0.0500	0.0421		mg/Kg		84	70 - 125	4	30
Xylenes, Total	0.100	0.0942		mg/Kg		94	53 - 147	4	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	122		70 - 134
4-Bromofluorobenzene (Surr)	99		75 - 131
Dibromofluoromethane	115		75 - 126
Toluene-d8 (Surr)	100		75 - 124

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-776526/1-A

Matrix: Solid

Analysis Batch: 776671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 776526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.033		0.033	0.0068	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Acenaphthylene	<0.033		0.033	0.0056	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Aldicarb	<0.67		0.67	0.33	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Anthracene	<0.033		0.033	0.0068	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Benzo[a]anthracene	<0.033		0.033	0.0070	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Benzo[a]pyrene	<0.033		0.033	0.032	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Benzo[b]fluoranthene	<0.033		0.033	0.032	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Benzo[g,h,i]perylene	<0.033		0.033	0.0072	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Benzoic acid	<1.7		1.7	0.20	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Benzo[k]fluoranthene	<0.033		0.033	0.013	mg/Kg		07/12/24 16:22	07/15/24 10:41	1

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-776526/1-A

Matrix: Solid

Analysis Batch: 776671

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 776526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethyl)ether	<0.17		0.17	0.015	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Bis(2-ethylhexyl) phthalate	<0.17		0.17	0.13	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Butyl benzyl phthalate	<0.17		0.17	0.017	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Carbazole	<0.17		0.17	0.013	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Carbofuran	<0.67		0.67	0.17	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
4-Chloroaniline	<0.67		0.67	0.35	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2-Chlorophenol	<0.17		0.17	0.011	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Chrysene	<0.033		0.033	0.0088	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
1,2-Dichlorobenzene	<0.17		0.17	0.014	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
1,4-Dichlorobenzene	<0.17		0.17	0.016	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
3,3'-Dichlorobenzidine	<0.17		0.17	0.027	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2,4-Dichlorophenol	<0.33		0.33	0.012	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Diethyl phthalate	<0.17		0.17	0.015	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2,4-Dimethylphenol	<0.33		0.33	0.074	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Di-n-butyl phthalate	<0.17		0.17	0.011	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2,4-Dinitrophenol	<0.67		0.67	0.19	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2,4-Dinitrotoluene	<0.17		0.17	0.019	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2,6-Dinitrotoluene	<0.17		0.17	0.011	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Di-n-octyl phthalate	<0.33		0.33	0.23	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Fluoranthene	<0.033		0.033	0.0077	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Fluorene	<0.033		0.033	0.0098	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Hexachlorobenzene	<0.067		0.067	0.0064	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Hexachlorocyclopentadiene	<0.67		0.67	0.35	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Hexachloroethane	<0.17		0.17	0.017	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Indeno[1,2,3-cd]pyrene	<0.033		0.033	0.032	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Isophorone	<0.17		0.17	0.017	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2-Methylphenol	<0.17		0.17	0.018	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Naphthalene	<0.033		0.033	0.0060	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Nitrobenzene	<0.033		0.033	0.011	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
4-Nitrophenol	<0.67		0.67	0.12	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
N-Nitrosodi-n-propylamine	<0.067		0.067	0.0066	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
N-Nitrosodiphenylamine	<0.17		0.17	0.020	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Phenanthrene	<0.033		0.033	0.0072	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Phenol	<0.17		0.17	0.014	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
Pyrene	<0.033		0.033	0.0091	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
1,2,4-Trichlorobenzene	<0.17		0.17	0.024	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2,4,5-Trichlorophenol	<0.33		0.33	0.013	mg/Kg		07/12/24 16:22	07/15/24 10:41	1
2,4,6-Trichlorophenol	<0.33		0.33	0.011	mg/Kg		07/12/24 16:22	07/15/24 10:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	84		43 - 145	07/12/24 16:22	07/15/24 10:41	1
2-Fluorophenol	84		31 - 166	07/12/24 16:22	07/15/24 10:41	1
Nitrobenzene-d5	82		37 - 147	07/12/24 16:22	07/15/24 10:41	1
Phenol-d5	79		30 - 153	07/12/24 16:22	07/15/24 10:41	1
Terphenyl-d14	89		42 - 157	07/12/24 16:22	07/15/24 10:41	1
2,4,6-Tribromophenol	75		31 - 143	07/12/24 16:22	07/15/24 10:41	1

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-776526/2-A

Matrix: Solid

Analysis Batch: 776671

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 776526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.73		mg/Kg		82	63 - 109
Acenaphthylene	3.33	2.87		mg/Kg		86	61 - 115
Anthracene	3.33	2.85		mg/Kg		86	68 - 120
Benzo[a]anthracene	3.33	2.76		mg/Kg		83	70 - 121
Benzo[a]pyrene	3.33	3.19		mg/Kg		96	73 - 132
Benzo[b]fluoranthene	3.33	3.00		mg/Kg		90	68 - 123
Benzo[g,h,i]perylene	3.33	3.02		mg/Kg		90	65 - 126
Benzoic acid	6.67	5.08		mg/Kg		76	10 - 135
Benzo[k]fluoranthene	3.33	2.98		mg/Kg		89	64 - 128
Bis(2-chloroethyl)ether	3.33	2.41		mg/Kg		72	49 - 99
Bis(2-ethylhexyl) phthalate	3.33	2.93		mg/Kg		88	70 - 139
Butyl benzyl phthalate	3.33	2.97		mg/Kg		89	65 - 140
Carbazole	3.33	2.72		mg/Kg		82	68 - 120
4-Chloroaniline	3.33	2.48		mg/Kg		75	22 - 110
2-Chlorophenol	3.33	2.55		mg/Kg		76	50 - 102
Chrysene	3.33	2.61		mg/Kg		78	70 - 123
Dibenz(a,h)anthracene	3.33	3.01		mg/Kg		90	66 - 125
1,2-Dichlorobenzene	3.33	2.35		mg/Kg		71	47 - 94
1,4-Dichlorobenzene	3.33	2.36		mg/Kg		71	46 - 92
3,3'-Dichlorobenzidine	3.33	2.77		mg/Kg		83	36 - 131
2,4-Dichlorophenol	3.33	2.68		mg/Kg		80	51 - 109
Diethyl phthalate	3.33	2.73		mg/Kg		82	66 - 115
2,4-Dimethylphenol	3.33	2.84		mg/Kg		85	48 - 93
Di-n-butyl phthalate	3.33	2.82		mg/Kg		85	69 - 125
2,4-Dinitrophenol	6.67	4.23		mg/Kg		63	10 - 130
2,4-Dinitrotoluene	3.33	2.91		mg/Kg		87	65 - 120
2,6-Dinitrotoluene	3.33	3.03		mg/Kg		91	66 - 117
Di-n-octyl phthalate	3.33	3.01		mg/Kg		90	61 - 131
Fluoranthene	3.33	2.84		mg/Kg		85	66 - 123
Fluorene	3.33	2.82		mg/Kg		85	62 - 113
Hexachlorobenzene	3.33	2.89		mg/Kg		87	52 - 126
Hexachlorocyclopentadiene	3.33	3.16		mg/Kg		95	10 - 100
Hexachloroethane	3.33	2.27		mg/Kg		68	45 - 95
Indeno[1,2,3-cd]pyrene	3.33	2.94		mg/Kg		88	66 - 131
Isophorone	3.33	2.50		mg/Kg		75	47 - 108
2-Methylphenol	3.33	2.61		mg/Kg		78	50 - 104
Naphthalene	3.33	2.52		mg/Kg		76	54 - 98
Nitrobenzene	3.33	2.60		mg/Kg		78	52 - 105
4-Nitrophenol	6.67	4.95		mg/Kg		74	45 - 126
N-Nitrosodi-n-propylamine	3.33	2.44		mg/Kg		73	48 - 110
N-Nitrosodiphenylamine	3.33	2.82		mg/Kg		85	67 - 112
Phenanthrene	3.33	2.72		mg/Kg		82	65 - 115
Phenol	3.33	2.58		mg/Kg		78	52 - 110
Pyrene	3.33	2.83		mg/Kg		85	71 - 128
1,2,4-Trichlorobenzene	3.33	2.56		mg/Kg		77	49 - 100
2,4,5-Trichlorophenol	3.33	2.81		mg/Kg		84	48 - 121
2,4,6-Trichlorophenol	3.33	2.85		mg/Kg		85	50 - 121

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-776526/2-A

Matrix: Solid

Analysis Batch: 776671

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 776526

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	78		43 - 145
2-Fluorophenol	76		31 - 166
Nitrobenzene-d5	75		37 - 147
Phenol-d5	72		30 - 153
Terphenyl-d14	78		42 - 157
2,4,6-Tribromophenol	78		31 - 143

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-776509/1-A

Matrix: Solid

Analysis Batch: 776877

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 776509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alachlor	<0.017		0.017	0.0013	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Aldrin	<0.0017		0.0017	0.0012	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
alpha-BHC	<0.0017		0.0017	0.00095	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Chlordane (technical)	<0.0067		0.0067	0.0032	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
4,4'-DDD	<0.0017		0.0017	0.00091	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
4,4'-DDE	<0.0017		0.0017	0.00087	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
4,4'-DDT	<0.0017		0.0017	0.00080	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Dieldrin	<0.0017		0.0017	0.00088	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Endosulfan I	<0.0017		0.0017	0.00091	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Endosulfan II	<0.0017		0.0017	0.00093	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Endrin	<0.0017		0.0017	0.00086	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
gamma-BHC (Lindane)	<0.0017		0.0017	0.00084	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Heptachlor	<0.0017		0.0017	0.00091	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Heptachlor epoxide	<0.0017		0.0017	0.00091	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Methoxychlor	<0.0083		0.0083	0.0011	mg/Kg		07/12/24 15:16	07/16/24 14:16	1
Toxaphene	<0.017		0.017	0.0067	mg/Kg		07/12/24 15:16	07/16/24 14:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	71		33 - 148	07/12/24 15:16	07/16/24 14:16	1
Tetrachloro-m-xylene	60		30 - 121	07/12/24 15:16	07/16/24 14:16	1

Lab Sample ID: LCS 500-776509/2-A

Matrix: Solid

Analysis Batch: 776877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 776509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.0133	0.0101		mg/Kg		75	52 - 122
alpha-BHC	0.0133	0.0102		mg/Kg		77	50 - 123
4,4'-DDD	0.0133	0.0102		mg/Kg		77	47 - 137
4,4'-DDE	0.0133	0.0100		mg/Kg		75	50 - 130
4,4'-DDT	0.0133	0.0104		mg/Kg		78	46 - 143
Dieldrin	0.0133	0.0101		mg/Kg		76	51 - 133
Endosulfan I	0.0133	0.00802		mg/Kg		60	30 - 120
Endosulfan II	0.0133	0.00872		mg/Kg		65	30 - 120

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 500-776509/2-A

Matrix: Solid

Analysis Batch: 776877

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 776509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Endrin	0.0133	0.0104		mg/Kg		78	43 - 144
gamma-BHC (Lindane)	0.0133	0.0101		mg/Kg		76	50 - 122
Heptachlor	0.0133	0.00993		mg/Kg		74	53 - 129
Heptachlor epoxide	0.0133	0.0101		mg/Kg		75	50 - 139
Methoxychlor	0.0133	0.0100		mg/Kg		75	45 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	75		33 - 148
Tetrachloro-m-xylene	69		30 - 121

Lab Sample ID: 500-253377-1 MS

Matrix: Solid

Analysis Batch: 776877

Client Sample ID: ESD

Prep Type: Total/NA

Prep Batch: 776509

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	<0.0020		0.0167	0.0105		mg/Kg	✱	63	52 - 122
alpha-BHC	<0.0020		0.0167	0.0115		mg/Kg	✱	69	50 - 123
4,4'-DDD	<0.0020		0.0167	0.0120		mg/Kg	✱	72	47 - 137
4,4'-DDE	0.0050		0.0167	0.0163		mg/Kg	✱	68	50 - 130
4,4'-DDT	0.0024		0.0167	0.0114		mg/Kg	✱	54	46 - 143
Dieldrin	0.0023		0.0167	0.0121		mg/Kg	✱	59	51 - 133
Endosulfan I	<0.0020		0.0167	0.00796		mg/Kg	✱	48	30 - 120
Endosulfan II	<0.0020		0.0167	0.00924		mg/Kg	✱	55	30 - 120
Endrin	<0.0020		0.0167	0.0111		mg/Kg	✱	66	43 - 144
gamma-BHC (Lindane)	<0.0020		0.0167	0.0107		mg/Kg	✱	64	50 - 122
Heptachlor	<0.0020		0.0167	0.00988		mg/Kg	✱	59	53 - 129
Heptachlor epoxide	<0.0020		0.0167	0.0118		mg/Kg	✱	71	50 - 139
Methoxychlor	<0.0099		0.0167	<0.010		mg/Kg	✱	54	45 - 144

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	72		33 - 148
Tetrachloro-m-xylene	56		30 - 121

Lab Sample ID: 500-253377-1 MSD

Matrix: Solid

Analysis Batch: 776877

Client Sample ID: ESD

Prep Type: Total/NA

Prep Batch: 776509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	<0.0020		0.0164	0.0104		mg/Kg	✱	63	52 - 122	2	30
alpha-BHC	<0.0020		0.0164	0.0111		mg/Kg	✱	68	50 - 123	3	30
4,4'-DDD	<0.0020		0.0164	0.0132		mg/Kg	✱	81	47 - 137	10	30
4,4'-DDE	0.0050		0.0164	0.0166		mg/Kg	✱	70	50 - 130	2	30
4,4'-DDT	0.0024		0.0164	0.0107		mg/Kg	✱	50	46 - 143	6	30
Dieldrin	0.0023		0.0164	0.0127		mg/Kg	✱	63	51 - 133	5	30
Endosulfan I	<0.0020		0.0164	0.00823		mg/Kg	✱	50	30 - 120	3	30
Endosulfan II	<0.0020		0.0164	0.00982		mg/Kg	✱	60	30 - 120	6	30
Endrin	<0.0020		0.0164	0.0116		mg/Kg	✱	70	43 - 144	4	30
gamma-BHC (Lindane)	<0.0020		0.0164	0.0106		mg/Kg	✱	64	50 - 122	1	30

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 500-253377-1 MSD

Matrix: Solid

Analysis Batch: 776877

Client Sample ID: ESD

Prep Type: Total/NA

Prep Batch: 776509

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Heptachlor	<0.0020		0.0164	0.00951		mg/Kg	✖	58	53 - 129	4	30
Heptachlor epoxide	<0.0020		0.0164	0.0127		mg/Kg	✖	77	50 - 139	7	30
Methoxychlor	<0.0099		0.0164	<0.010		mg/Kg	✖	59	45 - 144	6	30
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
DCB Decachlorobiphenyl	81		33 - 148								
Tetrachloro-m-xylene	52		30 - 121								

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-776509/1-A

Matrix: Solid

Analysis Batch: 776871

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 776509

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.017		0.017	0.0066	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
PCB-1221	<0.017		0.017	0.0066	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
PCB-1232	<0.017		0.017	0.0045	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
PCB-1242	<0.017		0.017	0.0065	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
PCB-1248	<0.017		0.017	0.0079	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
PCB-1254	<0.017		0.017	0.0057	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
PCB-1260	<0.017		0.017	0.0063	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
Polychlorinated biphenyls, Total	<0.017		0.017	0.0045	mg/Kg		07/12/24 15:16	07/16/24 10:48	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
Tetrachloro-m-xylene	51		49 - 129				07/12/24 15:16	07/16/24 10:48	1
DCB Decachlorobiphenyl	57		37 - 121				07/12/24 15:16	07/16/24 10:48	1

Lab Sample ID: LCS 500-776509/3-A

Matrix: Solid

Analysis Batch: 776871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 776509

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.131		mg/Kg		79	57 - 120
PCB-1260	0.167	0.122		mg/Kg		73	61 - 125
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
Tetrachloro-m-xylene	61		49 - 129				
DCB Decachlorobiphenyl	67		37 - 121				

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-776709/1-A

Matrix: Solid

Analysis Batch: 777052

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 776709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<20		20	8.2	mg/Kg		07/15/24 11:03	07/16/24 23:49	1

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-776709/1-A
Matrix: Solid
Analysis Batch: 777052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 776709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<1.0		1.0	0.34	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Barium	<1.0		1.0	0.11	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Beryllium	<0.40		0.40	0.093	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Cadmium	<0.20		0.20	0.036	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Calcium	<20		20	3.4	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Iron	<20		20	10	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Lead	<0.50		0.50	0.23	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Manganese	<1.0		1.0	0.15	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Potassium	<50		50	18	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Silver	<0.50		0.50	0.13	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Sodium	<100		100	15	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Thallium	<1.0		1.0	0.50	mg/Kg		07/15/24 11:03	07/16/24 23:49	1
Vanadium	<0.50		0.50	0.12	mg/Kg		07/15/24 11:03	07/16/24 23:49	1

Lab Sample ID: MB 500-776709/1-A
Matrix: Solid
Analysis Batch: 777298

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 776709

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0	0.39	mg/Kg		07/15/24 11:03	07/17/24 20:26	1
Chromium	<1.0		1.0	0.50	mg/Kg		07/15/24 11:03	07/17/24 20:26	1
Cobalt	<0.50		0.50	0.13	mg/Kg		07/15/24 11:03	07/17/24 20:26	1
Copper	<1.0		1.0	0.28	mg/Kg		07/15/24 11:03	07/17/24 20:26	1
Magnesium	<10		10	5.0	mg/Kg		07/15/24 11:03	07/17/24 20:26	1
Nickel	<1.0		1.0	0.29	mg/Kg		07/15/24 11:03	07/17/24 20:26	1
Selenium	<1.0		1.0	0.59	mg/Kg		07/15/24 11:03	07/17/24 20:26	1
Zinc	<2.0		2.0	0.88	mg/Kg		07/15/24 11:03	07/17/24 20:26	1

Lab Sample ID: LCS 500-776709/2-A
Matrix: Solid
Analysis Batch: 777052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 776709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	200	189		mg/Kg		94	80 - 120
Arsenic	10.0	9.02		mg/Kg		90	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Beryllium	5.00	5.29		mg/Kg		106	80 - 120
Cadmium	5.00	4.46		mg/Kg		89	80 - 120
Calcium	1000	1080		mg/Kg		108	80 - 120
Iron	100	109		mg/Kg		109	80 - 120
Lead	10.0	9.55		mg/Kg		95	80 - 120
Manganese	50.0	48.9		mg/Kg		98	80 - 120
Potassium	1000	1010		mg/Kg		101	80 - 120
Silver	5.00	4.22		mg/Kg		84	80 - 120
Sodium	1000	1010		mg/Kg		101	80 - 120
Thallium	10.0	9.99		mg/Kg		100	80 - 120
Vanadium	50.0	51.0		mg/Kg		102	80 - 120

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-776709/2-A
Matrix: Solid
Analysis Batch: 777298

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 776709

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	48.5		mg/Kg		97	80 - 120
Chromium	20.0	19.5		mg/Kg		97	80 - 120
Cobalt	50.0	47.4		mg/Kg		95	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Magnesium	1000	940		mg/Kg		94	80 - 120
Nickel	50.0	47.3		mg/Kg		95	80 - 120
Selenium	10.0	8.55		mg/Kg		86	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Lab Sample ID: LCS 500-777310/2-A
Matrix: Solid
Analysis Batch: 777734

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 777310

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.113		mg/L		113	80 - 120
Barium	0.500	0.488	J	mg/L		98	80 - 120
Cadmium	0.0500	0.0510		mg/L		102	80 - 120
Chromium	0.200	0.209		mg/L		105	80 - 120
Iron	1.00	1.00		mg/L		100	80 - 120
Lead	0.100	0.107		mg/L		107	80 - 120
Selenium	0.100	0.115		mg/L		115	80 - 120
Silver	0.0500	0.0527		mg/L		105	80 - 120

Lab Sample ID: LB 500-776914/1-B
Matrix: Solid
Analysis Batch: 777734

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 777310

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.050		0.050	0.010	mg/L		07/18/24 09:16	07/19/24 13:52	1
Barium	<0.50		0.50	0.050	mg/L		07/18/24 09:16	07/19/24 13:52	1
Cadmium	<0.0050		0.0050	0.0020	mg/L		07/18/24 09:16	07/19/24 13:52	1
Chromium	<0.025		0.025	0.010	mg/L		07/18/24 09:16	07/19/24 13:52	1
Iron	<0.20		0.20	0.20	mg/L		07/18/24 09:16	07/19/24 13:52	1
Lead	<0.050		0.050	0.0075	mg/L		07/18/24 09:16	07/19/24 13:52	1
Selenium	<0.050		0.050	0.020	mg/L		07/18/24 09:16	07/19/24 13:52	1
Silver	<0.025		0.025	0.010	mg/L		07/18/24 09:16	07/19/24 13:52	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-777533/12-A
Matrix: Solid
Analysis Batch: 777794

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 777533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/24 11:20	07/22/24 07:29	1

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QC Sample Results

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 500-777533/13-A
Matrix: Solid
Analysis Batch: 777794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 777533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00198		mg/L		99	80 - 120

Lab Sample ID: LCSD 500-777533/28-A
Matrix: Solid
Analysis Batch: 777794

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 777533

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.00201	0.00196		mg/L		98	80 - 120	1	20

Lab Sample ID: LB 500-776914/1-C
Matrix: Solid
Analysis Batch: 777794

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 777533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/19/24 11:20	07/22/24 08:05	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-777171/12-A
Matrix: Solid
Analysis Batch: 777568

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 777171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017	0.0069	mg/Kg		07/17/24 16:40	07/19/24 13:11	1

Lab Sample ID: LCS 500-777171/13-A
Matrix: Solid
Analysis Batch: 777568

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 777171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.168		mg/Kg		101	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-776957/1-A
Matrix: Solid
Analysis Batch: 777409

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 776957

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.24		0.24	0.12	mg/Kg		07/16/24 16:24	07/18/24 15:21	1

Lab Sample ID: LCS 500-776957/2-A
Matrix: Solid
Analysis Batch: 777409

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 776957

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	2.40	2.57		mg/Kg		107	85 - 115

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Lab Chronicle

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Client Sample ID: ESD

Date Collected: 07/11/24 11:10

Date Received: 07/11/24 15:47

Lab Sample ID: 500-253377-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			776914	HH	EET CHI	07/16/24 14:30 - 07/17/24 08:30 ¹
TCLP	Prep	3010A			777310	BDE	EET CHI	07/18/24 09:16 - 07/18/24 15:16 ¹
TCLP	Analysis	6010D		1	777734	SJ	EET CHI	07/19/24 15:35
TCLP	Leach	1311			776914	HH	EET CHI	07/16/24 14:30 - 07/17/24 08:30 ¹
TCLP	Prep	7470A			777533	MJG	EET CHI	07/19/24 11:20 - 07/19/24 13:20 ¹
TCLP	Analysis	7470A		1	777794	MJG	EET CHI	07/22/24 08:09
Total/NA	Analysis	9045D		1	777295	SO	EET CHI	07/17/24 17:58
Total/NA	Analysis	Moisture		1	777169	DG	EET CHI	07/17/24 14:43

Client Sample ID: ESD

Date Collected: 07/11/24 11:10

Date Received: 07/11/24 15:47

Lab Sample ID: 500-253377-1

Matrix: Solid

Percent Solids: 79.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			776328	WRE	EET CHI	07/11/24 19:10
Total/NA	Analysis	8260D		1	776569	EA	EET CHI	07/15/24 00:51
Total/NA	Prep	3546			776526	LH	EET CHI	07/12/24 16:22
Total/NA	Analysis	8270E		1	776671	H7CM	EET CHI	07/15/24 11:30
Total/NA	Prep	3541			776509	SV	EET CHI	07/12/24 15:16 - 07/12/24 21:30 ¹
Total/NA	Analysis	8081B		1	776877	H7CM	EET CHI	07/16/24 19:31
Total/NA	Prep	3541			776509	SV	EET CHI	07/12/24 15:16 - 07/12/24 21:30 ¹
Total/NA	Analysis	8082A		1	776871	H7CM	EET CHI	07/16/24 11:49
Total/NA	Prep	3050B			776709	BDE	EET CHI	07/15/24 11:03 - 07/15/24 17:03 ¹
Total/NA	Analysis	6010D		1	777298	SJ	EET CHI	07/17/24 21:05
Total/NA	Prep	3050B			776709	BDE	EET CHI	07/15/24 11:03 - 07/15/24 17:03 ¹
Total/NA	Analysis	6010D		1	777052	SJ	EET CHI	07/17/24 00:19
Total/NA	Prep	7471B			777171	MJG	EET CHI	07/17/24 16:40
Total/NA	Analysis	7471B		1	777568	MJG	EET CHI	07/19/24 14:00
Total/NA	Prep	9010C			776957	MB	EET CHI	07/16/24 16:24 - 07/16/24 16:54 ¹
Total/NA	Analysis	9012B		1	777409	KF	EET CHI	07/18/24 15:45

¹ This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: NASHnal Soil Testing, LLC
Project/Site: 2024 Street Improvement

Job ID: 500-253377-1

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Illinois	NELAP	IL00035	05-31-25
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
7470A	7470A	Solid	Mercury
8082A	3541	Solid	Polychlorinated biphenyls, Total
8260D	5035	Solid	1,3-Dichloropropene, Total
8270E	3546	Solid	Aldicarb
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Environment Testing
TestAmerica

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

7/25/2024

Login Sample Receipt Checklist

Client: NASHnal Soil Testing, LLC

Job Number: 500-253377-1

Login Number: 253377

List Number: 1

Creator: Schmidt, Kara

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	27.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	