SOIL SAMPLING REPORT

BURTONSVILLE ELEMENTARY SCHOOL
14709 SADDLE CREEK DRIVE
BURTONSVILLE, MARYLAND 20866

ECS PROJECT NO. 47:18315-E

FOR

MTFA ARCHITECTURE, INC.

MAY 5, 2025

May 5, 2025

Ms. Meagan Jancy, AIA, LEED AP
MTFA Architecture, Inc.
3200 Lee Highway
Arlington, Virginia 22207

ECS Project No. 47:18315-E

Reference: Soil Sampling Report
Burtonsville Elementary School
14709 Saddle Creek Drive
Burtonsville, Maryland 20866

Dear Ms. Jancy:

Pursuant to your request, ECS Mid-Atlantic, LLC (ECS) is pleased to provide you with the results of our additional soil sampling activities performed at the above-referenced property (Figure 1). Our services were provided in accordance with ECS Proposal No. 47:38691 dated April 16, 2025.

BACKGROUND

The subject property is located at 14709 Saddle Creek Drive in Burtonsville, Montgomery County, Maryland 20866. According to the Montgomery County Online GIS website, the subject property is identified as Parcel Identification Number (PIN) 05-03718346, consists of 10.95 acres, and is owned by Board of Education of Montgomery County. Based on the available information, the subject property consists of unimproved land.

ECS previously completed a Phase I Environmental Site Assessment (ESA) for the subject property (ECS Project Number 47:18315). At the time of the report's completion, the 10.95-acre subject property consisted of undeveloped land, including a graded field and a portion of wooded land at the southeastern corner of the site. The assessment identified the following recognized environmental conditions (RECs) in connection with the subject property:

- The subject property was depicted as a portion of a greater sand and gravel pit from as early as 1963 through at least 1989. By 2007, the subject property was depicted as having been reforested. Several mounds and/or suspected fill areas were observed at the southeastern, wooded portion of the subject property during site reconnaissance, which appeared to consist of sand, gravel, asphalt, and rock. No documentation was available regarding the source of fill material associated with the surface mine's reclamation. The potential use of impacted soils for fill material was considered to represent a REC of the subject property.

Following the ESE, ECS completed an Environmental Ambient Air and Vapor Assessment for the subject property, dated August 26, 2024 (ECS Project Number 47:18315-B). ECS collected eight (8) soil vapor samples from within the footprint of the proposed school building and performed silica exposure and nuisance dust screening at the site. Concentrations of COPCs did not exceed applicable MDE Residential or Commercial Screening Levels in any of the soil vapor samples collected at the subject property, with the exception of concentrations of Chloroform and 1,4-Dichlorobenzene detected in samples collected within the footprint of the proposed structure. Additionally, nuisance dust and silica exposure levels were below the Occupational Safety and Health Administration's (OSHA's) permissible exposure limits (PELs) and do not appear to present an issue for future site occupants at this time.

ECS provided the reports discussed above to the MDE Controlled Hazardous Substances (CHS) Division in February 2025. In an Environmental Site Determination Letter, dated February 28, 2025, the MDE stated that while there is contamination found onsite, the contamination concentrations do not demand MDE supervision or interference. Additionally, ECS understands that a vapor mitigation system has been designed and will be implemented during the construction of the new building.

ECS understands that since the time of the previous onsite assessments, the Limit of Disturbance (LOD) was revised to include the south adjoining Parks Property for the development of stormwater outfall infrastructure. As a result, ECS observed the excavation of test pits within the revised portion of the LOD and performed soil sampling to characterize the soil. Concentrations of COPCs did not exceed applicable MDE Cleanup Standards for Soil and Groundwater, dated October 2018 (Regulatory Standards), in any of the soil samples submitted for laboratory analysis. Based on the analytical results, ECS recommended no further action or environmental assessment within the revised LOD area.

However, additional excavation for stormwater management was required. As a result, the client and general contractor requested that ECS mobilize to the site to collect additional samples to confirm that the soil in this additional excavation area was suitable for disposal without any restrictions.

SCOPE OF SERVICES

On April 18, 2025 and April 21, 2025, ECS mobilized to the subject property in order to collect a total of one (1) composite soil sample and two (2) grab soil samples from two (2) manhole excavations within the proposed stormwater basins. The samples were collected from near the proposed depth of the basins, at approximately 16 to 20 feet below surface grade. The composite soil sample was analyzed for the following:

- Priority Pollutant Metals (PP Metals) via EPA Method 6020;
- Hexavalent Chromium via EPA Method 7199;
- Polycyclic Aromatic Hydrocarbons (PAHs) via EPA Method 8270; and
- Polychlorinated Biphenyls (PCBs) via EPA Method 8082.

Additionally, soil generated from each excavation was screened using a MiniRAE 3000, or similar, photoionization detector (PID) with a 10.6 electron-volt bulb, calibrated to a 100 parts per million (ppm) isobutylene standard prior to use. The PID is useful for qualitative field screening of total volatile organic compounds (VOCs). PID readings paired with other field screening observations (i.e. staining, odors, etc.) were used to compare soils for apparent evidence of potential impacts. The PID does not quantify or identify specific compounds; in addition, it does not screen for methane, metals, or other inorganic compounds. ECS collected one (1) grab soil sample from each manhole within the proposed stormwater basin, for a total of two (2) grab soil samples. The grab soil samples were analyzed for the following:

- Volatile Organic Compounds (VOCs) via EPA Method 8260;
- Total Petroleum Hydrocarbons (TPH) Diesel Range Organics (DRO) via EPA Method 8015; and
- TPH Gasoline Range Organics (GRO) via EPA Method 8015.

The soil samples were packed into clean, laboratory-provided containers, labeled, placed on ice, and submitted under chain-of-custody (COC) protocol to an independent laboratory for analysis. Appropriate COC procedures were utilized to track the samples from collection to final disposition. The sampling protocol resulted in the collection of one (1) composite soil sample and two (2) grab soil samples.

ECS has not been provided with the disposal facility information and is not aware of any additional sampling parameters that they may require. If necessary, ECS can propose an additional sampling scope of work for the disposal facility's specific requirements.

RESULTS

On April 18, 2025 and April 21, 2025, ECS mobilized to the subject property and collected a total of one (1) composite soil sample (MH-COMP) and two (2) grab soil samples (MH-1 and MH-2) from beneath two manholes within the proposed stormwater basins to a terminal depth of approximately 16 to 20 feet below existing grade.

The results of the soil sample laboratory analysis were compared to the Maryland Department of the Environment (MDE) Cleanup Standards for Residential and Non-Residential Use for Soil dated October 2018 (Regulatory Standard). Concentrations of potential concern (COPCs) did not exceed applicable MDE Regulatory Standards in any of the soil samples submitted for laboratory analysis.

The results of the soil sample laboratory analysis are included in Attachment A and summarized in Table 1.

CONCLUSIONS

Concentrations of contaminants of potential concern (COPCs) did not exceed applicable Maryland Department of the Environment (MDE) Cleanup Soil Standards for Residential or Non-Residential Use. Based on analytical results, the soil within the stormwater basin may be considered suitable for unrestricted off-site reuse or disposal under residential standards.

ECS recommends no further action or environmental assessment of the subject property at this time.

LIMITATIONS

The study was conducted in general accordance with industry standards. It should be noted, however, the samples should be considered isolated data points and do not reflect homogeneous subsurface conditions. While the assessment was conducted to evaluate the presence of subsurface compounds of concern, the purpose of this study did not include determining the complete vertical and/or lateral extent of impacts, if any, at this site. The subsurface sampling points were selected based on the site history, likely areas where subsurface contamination might be present, and/or potential exposure pathways.

The conclusions and/or recommendations presented within this report are based upon a reasonable level of study within normal bounds and standards of professional practice for a site in this particular geographic and geologic setting. The intent of this assessment is to identify the presence of environmental contamination in the subsurface of the site. Observations, conclusions and/or recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken.

No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client and is not intended to be used or relied upon in connection with other projects or by other unidentified third parties. The use of this report by an undesignated third party or parties will be at the sole risk of the third party or parties and ECS disclaims liability for such third-party use or reliance.

ECS has appreciated the opportunity to work with you on this project. If you have any questions regarding this report, or other aspects of the project, please feel free to contact us at (410) 859-4300.

Respectfully submitted,
ECS MID-ATLANTIC, LLC

Nicholas Stella
Environmental Project Manager

Michael M. Bell, CHMM
Environmental Principal

Appendix:

Figure 1……. Site Map
Figure 2……. Sample Location Map
Table 1..…… Soil Sample Analytical Results
Attachment A…… Laboratory Report

Figures

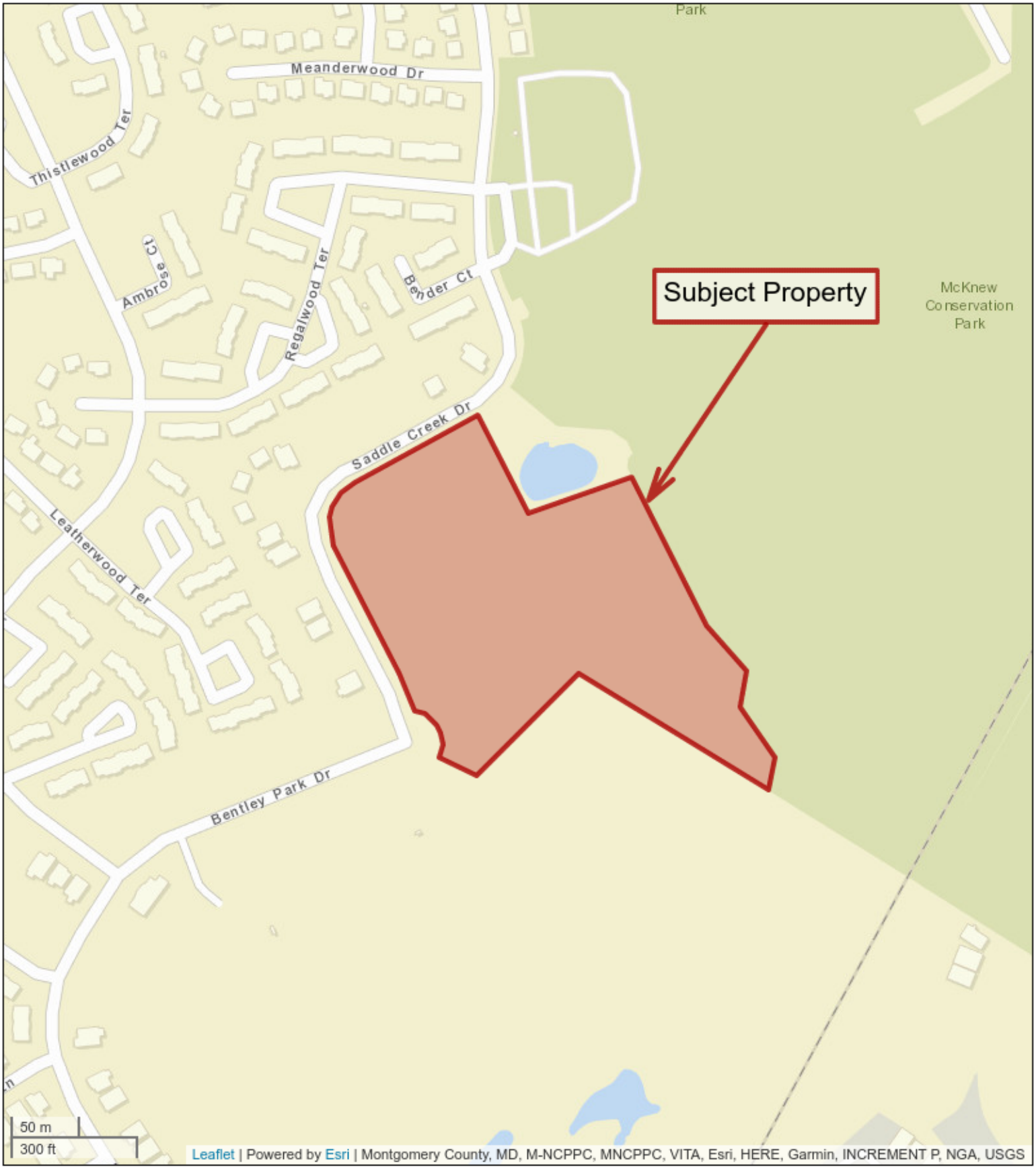
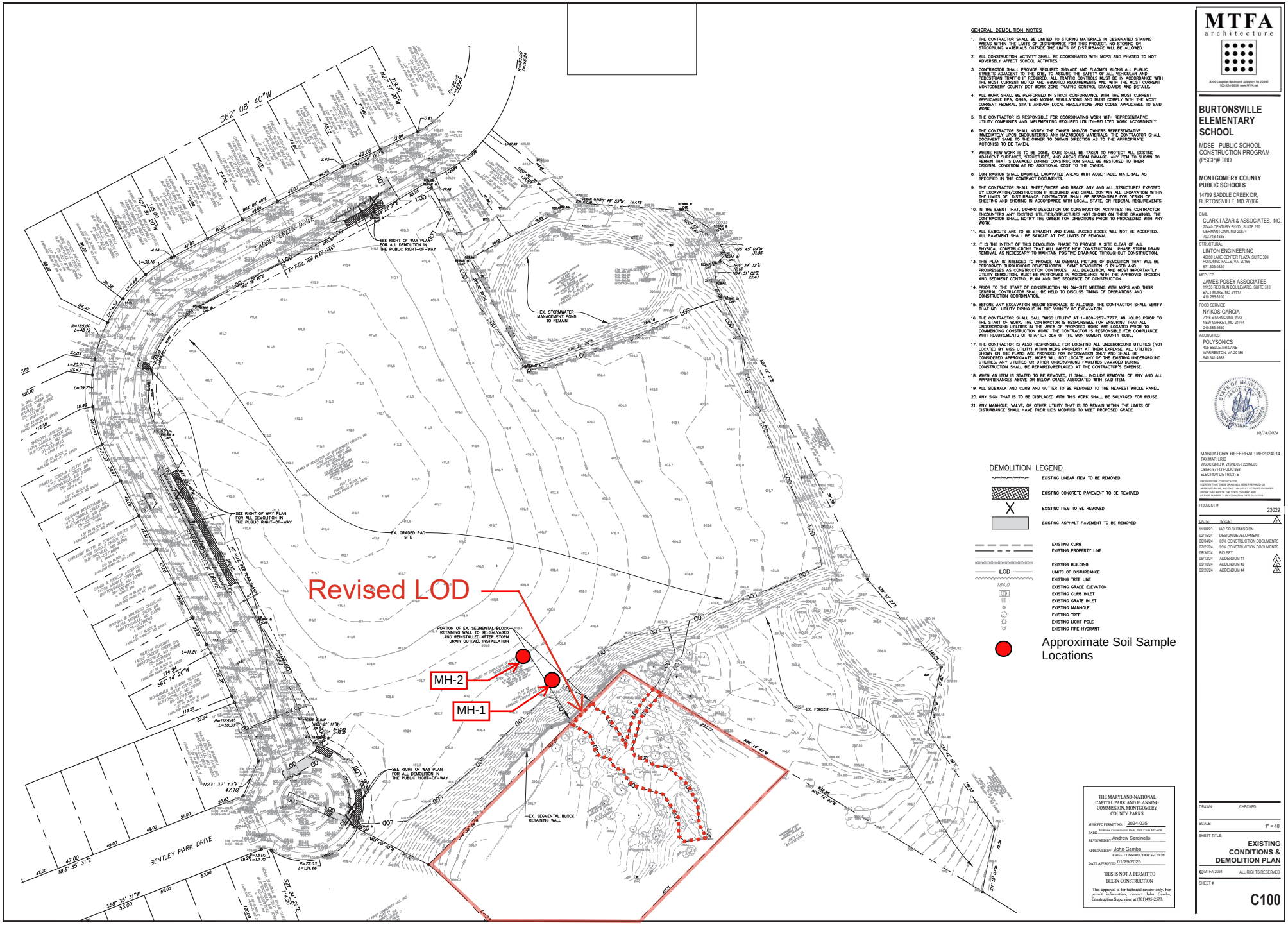


Figure 1

Site Location Map
Saddle Creek Drive Property
14709 Saddle Creek Drive
Burtonsville, Maryland 20866

FIGURE 2: SAMPLE LOCATION MAP



MTFA architecture
8200 Leesburg Boulevard Arlington, VA 22207
703-524-6656 www.MTFA.net

BURTONSVILLE ELEMENTARY SCHOOL

MDSE - PUBLIC SCHOOL CONSTRUCTION PROGRAM (PSCP)# TBD

MONTGOMERY COUNTY PUBLIC SCHOOLS

14709 SADDLE CREEK DR, BURTONSVILLE, MD 20866

CIVIL
CLARK I AZAR & ASSOCIATES, INC.
20440 CENTURY BLVD., SUITE 220
GERMANTOWN, MD 20874
703.718.4335
STRUCTURAL
LINTON ENGINEERING
46690 LAKE CENTER PLAZA, SUITE 309
POTOMAC FALLS, VA 20165
571.323.0320
MEP / FP
JAMES POSEY ASSOCIATES
11150 RED RUN BOULEVARD, SUITE 310
BALTIMORE, MD 21117
410.356.6100
FOOD SERVICE
NYIKOS-GARCIA
7146 STARMOUNT WAY
NEW MARKET, MD 21774
240.683.3520
ACOUSTICS
POLYSONICS
405 BELLE AIR LANE
WARRENTON, VA 20186
540.341.4988

10/14/2024

MANDATORY REFERRAL: MR2024014
TAX MAP: LR13
WSSC GRID # 219NE05 / 220NE05
LIBER: 57143 FOLIO:358
ELECTION DISTRICT: 5

PROFESSIONAL CERTIFICATION
I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND
LICENSE NUMBER: 21168 EXPIRATION DATE: 07/10/2025

PROJECT # 23029

DATE:	ISSUE:
11/08/23	IAC SD SUBMISSION
02/15/24	DESIGN DEVELOPMENT
06/04/24	65% CONSTRUCTION DOCUMENTS
07/25/24	95% CONSTRUCTION DOCUMENTS
08/30/24	BID SET
09/12/24	ADDENDUM #1
09/18/24	ADDENDUM #2
09/26/24	ADDENDUM #4

DRAWN: CHECKED:

SCALE: 1" = 40'

SHEET TITLE:
EXISTING CONDITIONS & DEMOLITION PLAN

SHEET #
C100

Tables

Table 1

Burtonsville Elementary School

Soil Sample Analytical Results

Sample ID Date Collected Approximate Depth (Feet)	MH-1 18-Apr-25 20	MH-2 21-Apr-25 16	MH-COMP 21-Apr-25 16-20	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)
Volatile Organics by EPA 8260D (mg/kg)					
Acetone	ND (0.0111)	0.0813	NA	6,100	61,000
Methylene Chloride	0.0233	ND (0.0229)	NA	35	320
Total Petroleum Hydrocarbons by EPA 8015C (mg/kg)					
Gasoline-Range Organics	ND (0.11)	ND (0.11)	NA	230	620
Diesel-Range Organics	13.3	16.9	NA	230	620
Semivolatile Organics by EPA 8270D (mg/kg)					
Total Semivolatile Organics	NA	NA	ND (Varies)	Varies	Varies
Polychlorinated Biphenyls by EPA 8082A (Gc/Ecd) (mg/kg)					
Total Polychlorinated Biphenyls		NA	ND (Varies)	Varies	Varies
Total Metals Analysis by EPA 6020B (mg/kg)					
Arsenic	NA	NA	3.94	10[(1)]	28[(1)]
Beryllium	NA	NA	0.278	15,000	22,000
Chromium	NA	NA	17.9	12,000[(2)]	180,000[(2)]
Copper	NA	NA	9.58	310	4,700
Lead	NA	NA	5.7	200	550
Mercury	NA	NA	0.0204	1.1	4.6
Nickel	NA	NA	3.91	150	2,200
Selenium	NA	NA	1.01	39	580
Zinc	NA	NA	11.6	2,300	35,000
Hexavalent Chromium by EPA 7199 (mg/kg)					
Chromium, Hexavalent	NA	NA	ND (0.167)	0.95[RSL]	20.0[RSL]

Maryland Department of the Environment Cleanup Standards for Soil and Groundwater. Published October 2018.

(1) The MDE has adopted a standard that incorporates the bioavailability. The above standard is the typical bioavailability standard enforced by the

(2) Trivalent chromium standard

NA = Not analyzed

RSL = EPA Regional Screening Level (November 2024)

NP = The MDE/EPA has no published standard

mg/kg = Parts per million (milligrams per kilogram)

ND (#) = Not Detected (Laboratory Detection Limit)

Attachment A

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

25 April 2025

Nick Stella
ECS-Baltimore
1340 Charwood Rd, Suite A
Baltimore, MD 21076
RE: Burtonsville ES

Enclosed are the results of analyses for samples received by the laboratory on 04/18/25 14:16.

Maryland Spectral Services, Inc. is a TNI 2016 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2016 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2016 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Will Brewington
President

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Nick Stella

Reported:
04/25/25 11:04

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MH-1		5041855-01	Soil	04/18/25 13:00	04/18/25 14:16

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Maryland spectral Services

Analytical Chemistry Services

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Baltimore MD 21227
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Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Nick Stella

Reported:
04/25/25 11:04

MH-1

5041855-01 (Soil)
Sampled on: 04/18/25 13:00

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260D (GC/MS) Prepared by 5030-GCMS									
Acetone	ND		ug/kg dry	11.1	11.1	1	04/23/25	04/23/25 17:56	CZ
tert-Amyl alcohol (TAA)	ND		ug/kg dry	55.4	55.4	1	04/23/25	04/23/25 17:56	CZ
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Benzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Bromobenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Bromochloromethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Bromodichloromethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Bromoform	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Bromomethane	ND		ug/kg dry	5.5	5.5	1	04/23/25	04/23/25 17:56	CZ
tert-Butanol (TBA)	ND		ug/kg dry	55.4	55.4	1	04/23/25	04/23/25 17:56	CZ
2-Butanone (MEK)	ND		ug/kg dry	11.1	11.1	1	04/23/25	04/23/25 17:56	CZ
n-Butylbenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
sec-Butylbenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
tert-Butylbenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Carbon disulfide	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Carbon tetrachloride	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Chlorobenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Chloroethane	ND		ug/kg dry	5.5	5.5	1	04/23/25	04/23/25 17:56	CZ
Chloroform	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Chloromethane	ND		ug/kg dry	5.5	5.5	1	04/23/25	04/23/25 17:56	CZ
2-Chlorotoluene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
4-Chlorotoluene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Dibromochloromethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2-Dibromoethane (EDB)	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Dibromomethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2-Dichlorobenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,3-Dichlorobenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,4-Dichlorobenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Dichlorodifluoromethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,1-Dichloroethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2-Dichloroethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,1-Dichloroethene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ

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Will Brewington, President

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1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Nick Stella

Reported:
04/25/25 11:04

MH-1

5041855-01 (Soil)
Sampled on: 04/18/25 13:00

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260D (GC/MS) Prepared by 5030-GCMS (continued)									
cis-1,2-Dichloroethene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
trans-1,2-Dichloroethene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Dichlorofluoromethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2-Dichloropropane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,3-Dichloropropane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
2,2-Dichloropropane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,1-Dichloropropene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
cis-1,3-Dichloropropene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
trans-1,3-Dichloropropene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Diisopropyl ether (DIPE)	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Ethylbenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Hexachlorobutadiene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
2-Hexanone	ND		ug/kg dry	11.1	11.1	1	04/23/25	04/23/25 17:56	CZ
Isopropylbenzene (Cumene)	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
4-Isopropyltoluene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
4-Methyl-2-pentanone	ND		ug/kg dry	11.1	11.1	1	04/23/25	04/23/25 17:56	CZ
Methylene chloride	**23.3**	L	ug/kg dry	22.1	22.1	1	04/23/25	04/23/25 17:56	CZ
Naphthalene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
n-Propylbenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Styrene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Tetrachloroethene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Toluene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2,3-Trichlorobenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2,4-Trichlorobenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,1,1-Trichloroethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,1,2-Trichloroethane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Trichloroethene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,2,3-Trichloropropane	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ

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Analytical Results

Project: Burtonsville ES

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Project Manager: Nick Stella

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04/25/25 11:04

MH-1

5041855-01 (Soil)
Sampled on: 04/18/25 13:00

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260D (GC/MS) Prepared by 5030-GCMS (continued)									
1,2,4-Trimethylbenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
1,3,5-Trimethylbenzene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Vinyl chloride	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
o-Xylene	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
m- & p-Xylenes	ND		ug/kg dry	5.5	2.2	1	04/23/25	04/23/25 17:56	CZ
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*108 %*	*04/23/25*		*04/23/25 17:56*		
Surrogate: Toluene-d8			*75-120*	*99 %*	*04/23/25*		*04/23/25 17:56*		
Surrogate: 4-Bromofluorobenzene			*65-120*	*98 %*	*04/23/25*		*04/23/25 17:56*		
GASOLINE RANGE ORGANICS BY EPA 5030/8015C Prepared by 5030-GC									
Gasoline-Range Organics	ND		mg/kg dry	0.11	0.11	1	04/21/25	04/21/25 16:40	JT
Surrogate: a,a,a-Trifluorotoluene [FID]			*85-115*	*108 %*	*04/21/25*		*04/21/25 16:40*		
DIESEL RANGE ORGANICS BY EPA 8015CD Prepared by 3540-GC(Soxhlet)									
Diesel-Range Organics (C10-C28)	**13.3**		mg/kg dry	8.9	8.9	1	04/21/25	04/22/25 21:10	TS
Surrogate: o-Terphenyl			*70-130*	*81 %*	*04/21/25*		*04/22/25 21:10*		
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	**90**		%			1	04/22/25	04/23/25 08:55	RS

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Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: Burtonsville ES

Project Number: 47:18315-E:082

Project Manager: Nick Stella

Reported:

04/25/25 11:04

Maryland Spectral Services does not maintain certification for the following analytical parameters:

Maryland Spectral Services

Matrix , Method , Analyte

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Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Nick Stella

Reported:
04/25/25 11:04

Notes and Definitions

S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
L	Analyte is a possible laboratory contaminant
J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
RE	Sample reanalyses are done at the laboratory's discretion as a mechanism to improve data quality. Any client requested reanalysis will be identified with a sample qualifier.
ND	Analyte NOT DETECTED at or above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accredidation

If this report contains any samples analyzed for gasoline range organics (GRO) by EPA Method 8015C and no trip blank was shipped, stored, and received with the sample(s) as required by Section 3.1 of the EPA Method, the sample analysis contained in this report cannot exclude the possibility that any reportable GRO measurement was due to environmental contamination of the sample during shipping or storage.

Will Brewington, President

All analyses performed at Maryland Spectral Services included in the report are TNI certified except as indicated at the end of the report.

Company Name:	Project Manager:
ECS Baltimore	Nick Stella
Project Name:	**Project ID:**
Burtonsville ES	047:18315-E:082
Sampler(s):	**P.O. Number:**
Nick Stella	
State of Origin: MD	

CHAIN-OF-CUSTODY RECORD

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 * Fax 410-247-7602
reporting@mdspectral.com

Matrix Codes: NPW - non-potable water
DW - drinking water

Analysis Requested

Field Sample ID:	Date	Time	DW	NPW	Soil	Other	Grab	Composite	# of containers	TPH DRO 8015	TPH GRO 8015	VOCs 8260	Preservative	Field Notes	MSS Lab ID
MH-1	4/18/25	1300			X		X		1	X	X	X			5041855-01

Relinquished by: *(Signature)*	Date /Time	Relinquished by: *(Signature)*
(Printed) Nick Stella	4/18/25	*(Printed)*
Relinquished by: *(Signature)*	Date /Time	Received by lab: *(Signature)*
(Printed)	4-18-25 14:16	*(Printed)* Lori Foster

Please indicate if any of the following certifications are required:
- ☐ Virginia VELAP
- ☐ Pennsylvania NELAP
- ☐ West Virginia DEP
- ☐ MD Drinking Water
- ☐ VA Drinking Water
- ☐ Other _____

Turn Around Time:
- ☐ Normal (7 day)
- ☒ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Delivery Method:
- ☐ Courier
- ☒ Client
- ☐ UPS
- ☐ Fed Ex
- ☐ USPS
- ☐ Other _____

Lab Use:
Temp: 8.9 °C
- ☑ Received on Ice
- ☑ Received Same Day

T-41

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for __ days

Special Instructions / QC Requirements & Comments:

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com
VELAP ID 460040

29 April 2025

Stephen Dessel
ECS-Baltimore
1340 Charwood Rd, Suite A
Baltimore, MD 21076
RE: Burtonsville ES

Enclosed are the results of analyses for samples received by the laboratory on 04/21/25 16:36.

Maryland Spectral Services, Inc. is a TNI 2016 Standard accredited laboratory and as such, all analyses performed at Maryland Spectral Services included in this report are 2016 TNI certified except as indicated at the end of this report. Please visit our website at www.mdspectral.com for a complete listing of our TNI 2016 Standard accreditations.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Will Brewington
President

Maryland spectral Services

Analytical Chemistry Services

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

Client Sample ID	Alternate Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MH-2		5042116-01	Soil	04/21/25 15:40	04/21/25 16:36
MH-COMP		5042116-02	Soil	04/21/25 15:45	04/21/25 16:36

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Will Brewington, President

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Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

MH-2

5042116-01 (Soil)
Sampled on: 04/21/25 15:40

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260D (GC/MS) Prepared by 5030-GCMS									
Acetone	**81.3**		ug/kg dry	11.5	11.5	1	04/24/25	04/24/25 13:07	CZ
tert-Amyl alcohol (TAA)	ND		ug/kg dry	57.3	57.3	1	04/24/25	04/24/25 13:07	CZ
tert-Amyl methyl ether (TAME)	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Benzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Bromobenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Bromochloromethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Bromodichloromethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Bromoform	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Bromomethane	ND		ug/kg dry	5.7	5.7	1	04/24/25	04/24/25 13:07	CZ
tert-Butanol (TBA)	ND		ug/kg dry	57.3	57.3	1	04/24/25	04/24/25 13:07	CZ
2-Butanone (MEK)	ND		ug/kg dry	11.5	11.5	1	04/24/25	04/24/25 13:07	CZ
n-Butylbenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
sec-Butylbenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
tert-Butylbenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Carbon disulfide	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Carbon tetrachloride	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Chlorobenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Chloroethane	ND		ug/kg dry	5.7	5.7	1	04/24/25	04/24/25 13:07	CZ
Chloroform	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Chloromethane	ND		ug/kg dry	5.7	5.7	1	04/24/25	04/24/25 13:07	CZ
2-Chlorotoluene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
4-Chlorotoluene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Dibromochloromethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2-Dibromoethane (EDB)	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Dibromomethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2-Dichlorobenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,3-Dichlorobenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,4-Dichlorobenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Dichlorodifluoromethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,1-Dichloroethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2-Dichloroethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,1-Dichloroethene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ

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1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

MH-2

5042116-01 (Soil)
Sampled on: 04/21/25 15:40

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260D (GC/MS) Prepared by 5030-GCMS (continued)									
cis-1,2-Dichloroethene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
trans-1,2-Dichloroethene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Dichlorofluoromethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2-Dichloropropane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,3-Dichloropropane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
2,2-Dichloropropane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,1-Dichloropropene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
cis-1,3-Dichloropropene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
trans-1,3-Dichloropropene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Diisopropyl ether (DIPE)	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Ethyl tert-butyl ether (ETBE)	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Ethylbenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Hexachlorobutadiene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
2-Hexanone	ND		ug/kg dry	11.5	11.5	1	04/24/25	04/24/25 13:07	CZ
Isopropylbenzene (Cumene)	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
4-Isopropyltoluene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
4-Methyl-2-pentanone	ND		ug/kg dry	11.5	11.5	1	04/24/25	04/24/25 13:07	CZ
Methylene chloride	ND		ug/kg dry	22.9	22.9	1	04/24/25	04/24/25 13:07	CZ
Naphthalene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
n-Propylbenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Styrene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Tetrachloroethene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Toluene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2,3-Trichlorobenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2,4-Trichlorobenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,1,1-Trichloroethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,1,2-Trichloroethane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Trichloroethene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Trichlorofluoromethane (Freon 11)	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,2,3-Trichloropropane	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ

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410-247-7600
www.mdspectral.com

Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

MH-2

5042116-01 (Soil)
Sampled on: 04/21/25 15:40

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Volatile Organics by EPA 8260D (GC/MS) Prepared by 5030-GCMS (continued)									
1,2,4-Trimethylbenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
1,3,5-Trimethylbenzene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Vinyl chloride	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
o-Xylene	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
m- & p-Xylenes	ND		ug/kg dry	5.7	2.3	1	04/24/25	04/24/25 13:07	CZ
Surrogate: 1,2-Dichloroethane-d4			*70-130*	*105 %*		*04/24/25*		*04/24/25 13:07*	
Surrogate: Toluene-d8			*75-120*	*98 %*		*04/24/25*		*04/24/25 13:07*	
Surrogate: 4-Bromofluorobenzene			*65-120*	*100 %*		*04/24/25*		*04/24/25 13:07*	
GASOLINE RANGE ORGANICS BY EPA 5030/8015C Prepared by 5030-GC									
Gasoline-Range Organics	ND		mg/kg dry	0.11	0.11	1	04/22/25	04/22/25 14:08	JT
Surrogate: a,a,a-Trifluorotoluene [FID]			*85-115*	*108 %*		*04/22/25*		*04/22/25 14:08*	
DIESEL RANGE ORGANICS BY EPA 8015CD Prepared by 3540-GC(Soxhlet)									
Diesel-Range Organics (C10-C28)	**16.9**		mg/kg dry	9.2	9.2	1	04/22/25	04/23/25 23:51	TS
Surrogate: o-Terphenyl			*70-130*	*91 %*		*04/22/25*		*04/23/25 23:51*	
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	**87**		%			1	04/22/25	04/23/25 08:55	RS

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Will Brewington, President

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Analytical Results

1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

MH-COMP

5042116-02 (Soil)
Sampled on: 04/21/25 15:45

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Semivolatile Organics by EPA 8270D (GC/MS) Prepared by 3540-GCMS(Soxhlet)									
Acenaphthene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Acenaphthylene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Anthracene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Benzo[a]anthracene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Benzo[b]fluoranthene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Benzo[k]fluoranthene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Benzo[g,h,i]perylene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Benzo[a]pyrene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Chrysene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Dibenz[a,h]anthracene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Fluoranthene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Fluorene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Indeno[1,2,3-cd]pyrene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
1-Methylnaphthalene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
2-Methylnaphthalene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Naphthalene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Phenanthrene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Pyrene	ND		ug/kg dry	89	89	1	04/23/25	04/25/25 00:50	EH
Surrogate: 2-Fluorophenol			*23-121*	*81 %*			*04/23/25*	*04/25/25 00:50*	
Surrogate: Phenol-d5			*24-113*	*83 %*			*04/23/25*	*04/25/25 00:50*	
Surrogate: Nitrobenzene-d5			*23-120*	*74 %*			*04/23/25*	*04/25/25 00:50*	
Surrogate: 2,4,6-Tribromophenol			*19-122*	*111 %*			*04/23/25*	*04/25/25 00:50*	
Surrogate: 2-Fluorobiphenyl			*30-115*	*90 %*			*04/23/25*	*04/25/25 00:50*	
Surrogate: Terphenyl-d14			*18-137*	*95 %*			*04/23/25*	*04/25/25 00:50*	

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Will Brewington, President

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1500 Caton Center Dr Suite G
Baltimore MD 21227
410-247-7600
www.mdspectral.com

Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

MH-COMP

5042116-02 (Soil)
Sampled on: 04/21/25 15:45

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
PERCENT SOLIDS BY ASTM D2216-05 Prepared by Percent Solids									
Percent Solids	**90**		%			1	04/22/25	04/23/25 08:55	RS
POLYCHLORINATED BIPHENYLS BY EPA 8082A (GC/ECD) Prepared by 3540-GC(Soxhlet) ClPestPCB									
Aroclor-1016	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1221	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1232	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1242	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1248	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1254	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1260	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1262	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Aroclor-1268	ND		ug/kg dry	44.4	44.4	1	04/23/25	04/25/25 14:28	ARS
Surrogate: Tetrachloro-m-xylene			*40-150*	*100 %*	*04/23/25*		*04/25/25 14:28*		
Surrogate: Decachlorobiphenyl			*40-150*	*113 %*	*04/23/25*		*04/25/25 14:28*		
Total Metals Analysis by EPA 6020B Prepared by 3050B-Metals Digestion									
Antimony	ND		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Arsenic	**3.94**		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Beryllium	**0.278**		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Cadmium	ND		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Chromium	**17.9**		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Copper	**9.58**		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Lead	**5.70**		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Mercury	**0.0204**		mg/kg dry	0.0139	0.0139	1	04/22/25	04/23/25 19:08	HM
Nickel	**3.91**		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Selenium	**1.01**		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Silver	ND		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Thallium	ND		mg/kg dry	0.278	0.278	1	04/22/25	04/23/25 19:08	HM
Zinc	**11.6**		mg/kg dry	1.39	1.39	1	04/22/25	04/23/25 19:08	HM

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Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

MH-COMP

5042116-02 (Soil)
Sampled on: 04/21/25 15:45

Analyte	Result	Notes	Units	Reporting Limit (MRL)	Detection Limit (LOD)	Dilution	Prepared	Analyzed	Analyst
Hexavalent Chromium by EPA 7199 Prepared by 3060A-Hexavalent Chromium Digestion									
Chromium, Hexavalent	ND		mg/kg dry	0.222	0.167	1	04/24/25	04/24/25 23:18	CRP

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Analytical Results

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Project: Burtonsville ES

Project Number: 47:18315-E:082

Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

Maryland Spectral Services does not maintain certification for the following analytical parameters:

Maryland Spectral Services

Matrix , Method , Analyte

Soil | 8270 (PAH)2ppb | 1-Methylnaphthalene

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Analytical Results

Project: Burtonsville ES

Project Number: 47:18315-E:082
Project Manager: Stephen Dessel

Reported:
04/29/25 11:31

Notes and Definitions

S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM-06	Due to non-homogeneity of the QC sample matrix, the MS/MSD or MS/DUP did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS percent recoveries.
QM-05	The spike recovery was outside acceptance limits for the MS, PS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
J	Detected but below the reporting limit; therefore, result is an estimated concentration (CLP J-Flag).
RE	Sample reanalyses are done at the laboratory's discretion as a mechanism to improve data quality. Any client requested reanalysis will be identified with a sample qualifier.
ND	Analyte NOT DETECTED at or above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
%-Solids	Percent Solids is a supportive test and as such does not require accredidation

If this report contains any samples analyzed for gasoline range organics (GRO) by EPA Method 8015C and no trip blank was shipped, stored, and received with the sample(s) as required by Section 3.1 of the EPA Method, the sample analysis contained in this report cannot exclude the possibility that any reportable GRO measurement was due to environmental contamination of the sample during shipping or storage.

Will Brewington, President

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CHAIN-OF-CUSTODY RECORD

Company Name: ECS - Baltimore
Project Manager: S. Dessel
Project Name: Bortonsville ES
Project ID: 047:18315-E:082
Sampler(s): JDM
P.O. Number: 11
State of Origin: MD

Analysis Requested

Maryland Spectral Services, Inc.
1500 Caton Center Drive, Suite G
Baltimore, MD 21227
410-247-7600 * Fax 410-247-7602
reporting@mdspectral.com

Matrix Codes: NPW - non-potable water
DW - drinking water

Field Sample ID:	Date	Time	DW	NPW	Soil	Other	Grab	Composite	# of containers	VOCs 8260	TPH DRO 8015	TPH GRO 8015	PP Metals 6020	Hex Chromium 7199	PAHs 8270	PCBs 8082		Preservative	Field Notes	MSS Lab ID
MH-2	4/21	15:40			X		X		1	X	X	X								5042116-01 A
MH-COMP	4/21	15:45			X			X	2				X	X	X	X				- 02

Relinquished by: (Signature)	Date /Time	Relinquished by: (Signature)
(Printed)	4/21/25 16:35	(Printed) Jordan Mercer
Relinquished by: (Signature)	Date /Time	Received by lab: (Signature)
(Printed)	4-21-25 16:36	(Printed) Lori Foster

Special Instructions / QC Requirements & Comments: RESULTS
JMERCER @ ECSLIMITED.COM
NSTELLA

Please indicate if any of the following certifications are required:
- ☐ Virginia VELAP
- ☐ Pennsylvania NELAP
- ☐ West Virginia DEP
- ☐ MD Drinking Water
- ☐ VA Drinking Water
- ☐ Other _____

Turn Around Time:
- ☐ Normal (7 day)
- ☒ 5 day
- ☐ 4 day
- ☐ 3 day
- ☐ Rush (2 day)
- ☐ Next Day
- ☐ Other: _____
- ☐ Specific Due Date: _____

Delivery Method:
- ☐ Courier
- ☒ Client
- ☐ UPS
- ☐ Fed Ex
- ☐ USPS
- ☐ Other _____

Lab Use:
Temp: 18.9 °C
- ☑ Received on Ice
- ☑ Received Same Day

T-41

Sample Disposal:
- ☐ Return to Client
- ☐ Disposal by lab
- ☐ Archive for __ days