The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at ***wvOASIS.gov***. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at ***WVPurchasing.gov*** with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.

Header 3

List View

General Information | Contact | Default Values | Discount | Document Information | Clarification Request

Procurement Folder: 1828803
Procurement Type: Central Purchase Order
Vendor ID: 000000102616
Legal Name: KEMRON ENVIRONMENTAL SERVICES INC
Alias/DBA:
Total Bid: $0.00
Response Date: 01/13/2026
Response Time: 13:13
Responded By User ID: tlwilfong
First Name: Terry
Last Name: Wilfong
Email: tlwilfong@kemron.com
Phone: 304-755-0999

SO Doc Code: CEOI
SO Dept: 0313
SO Doc ID: DEP2600000003
Published Date: 12/16/25
Close Date: 1/13/26
Close Time: 13:30
Status: Closed
Solicitation Description: EOI: OER- Ravenswood PCE and Vienna Tetrachloroethene
Total of Header Attachments: 3
Total of All Attachments: 3

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder:	1828803
Solicitation Description:	EOI: OER- Ravenswood PCE and Vienna Tetrachloroethene
Proc Type:	Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2026-01-13 13:30	SR 0313 ESR01132600000003915	1

VENDOR

000000102616
KEMRON ENVIRONMENTAL SERVICES INC

Solicitation Number: CEOI 0313 DEP2600000003

Total Bid: 0 **Response Date:** 2026-01-13 **Response Time:** 13:13:29

Comments:

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor
Signature X **FEIN#** **DATE**

All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	EOI Ravenswood PCE (OER)				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

EOI Ravenswood PCE (OER)

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
2	EOI Vienna Tetrachloroethene (OER)				0.00

Comm Code	Manufacturer	Specification	Model #
81100000			

Commodity Line Comments:

Extended Description:

EOI Vienna Tetrachloroethene (OER)

Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest
Architect/Engr

Proc Folder:	1828803		Reason for Modification:
Doc Description:	EOI: OER- Ravenswood PCE and Vienna Tetrachloroethene		
Proc Type:	Central Purchase Order		
Date Issued	**Solicitation Closes**	**Solicitation No**	**Version**
2025-12-15	2026-01-13 13:30	CEOI 0313 DEP2600000003	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code: 000000102616
Vendor Name : KEMRON Environmental Services, Inc.
Address : 108 Craddock Way, Suite 5
Street :
City : Poca
State : WV **Country :** US/Putnam **Zip :** 25159
Principal Contact : Terry L. Wilfong, Jr., LRS
Vendor Contact Phone: 304-755-0999 **Extension:** 6101

FOR INFORMATION CONTACT THE BUYER
Joseph (Josh) E Hager III
(304) 558-2306
joseph.e.hageriii@wv.gov

Vendor Signature X **FEIN#** 11-23993978 **DATE** January 13, 2026

All offers subject to all terms and conditions contained in this solicitation

ADDITIONAL INFORMATION

The Acquisitions and Contract Administration Section of the Purchasing Division is soliciting Expression(s) of Interest for the West Virginia Department of Environmental Protection Office of Environmental Remediation from qualified firms to provide architectural/ engineering services as defined herein for Maintaining and troubleshooting environmental treatment systems as appropriate, conducting technical performance investigations and reporting, drafting periodic status reports that include detailed descriptions, analytical data, statistical evaluations and/or technical figures as appropriate, conducting environmental sampling including, but not limited to groundwater and vapor media, data validation, investigation-derived waste ("IDW") characterization and disposal, oversight activities, or any other necessary activity as described in future work directives per the attached specifications and terms and conditions.

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF ENVIRONMENTAL REMEDIATION 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
1	EOI Ravenswood PCE (OER)		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
EOI Ravenswood PCE (OER)

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION OFFICE OF ENVIRONMENTAL REMEDIATION 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit Issue
2	EOI Vienna Tetrachloroethene (OER)		

Comm Code	Manufacturer	Specification	Model #
81100000			

Extended Description:
EOI Vienna Tetrachloroethene (OER)

SCHEDULE OF EVENTS

Line	Event	Event Date

DESIGNATED CONTACT: Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Terry L. Wilfong, Jr., LRS

(Address) 108 Craddock Way, Suite 5, Poca, WV 25159

(Phone Number) / (Fax Number) (304-755-0999)/(304-755-0990)

(email address) tlwilfong@kemron.com

CERTIFICATION AND SIGNATURE: By signing below, or submitting documentation through *wv*OASIS, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.

KEMRON Environmental Services, Inc.
(Company)

(Signature of Authorized Representative)
Terry L. Wilfong, Jr., LRS/Regional Manager January 13, 2025
(Printed Name and Title of Authorized Representative) (Date)
(304-755-0999) (304-755-0990)
(Phone Number) (Fax Number)
tlwilfong@kemron.com
(Email Address)

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CEOI 0313 DEP2600000003

Instructions: Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

Acknowledgment: I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

Addendum Numbers Received:
(Check the box next to each addendum received)

- ☐ Addendum No. 1
- ☐ Addendum No. 2
- ☐ Addendum No. 3
- ☐ Addendum No. 4
- ☐ Addendum No. 5
- ☐ Addendum No. 6
- ☐ Addendum No. 7
- ☐ Addendum No. 8
- ☐ Addendum No. 9
- ☐ Addendum No. 10

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

KEMRON Environmental Services, Inc.
Company

Authorized Signature

January 13, 2025
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
CONSULTANT QUALIFICATION QUESTIONNAIRE

PROJECT NAME	DATE (DAY, MONTH, YEAR)	FEIN
OER- Ravenswood PCE and Vienna Tetrachloroethene	January 13, 2025	11-2393978

1. FIRM NAME	2. HOME OFFICE BUSINESS ADDRESS	3. FORMER FIRM NAME (IF APPLICABLE)
KEMRON Environmental Services, Inc.	108 Craddock Way, Suite 5 Poca, WV 25159	

4. HOME OFFICE TELEPHONE	5. ESTABLISHED (YEAR)	6. TYPE OF OWNERSHIP	6a. WV REGISTERED DBE (DISADVANTAGED BUSINESS ENTERPRISE)
304-755-0999	1974	☐ INDIVIDUAL ☒ CORPORATION ☐ PARTNERSHIP ☐ JOINT-VENTURE	☐ YES ☒ NO

7. PRIMARY OFFICE: ADDRESS/ TELEPHONE/ PERSON IN CHARGE/ NO. (name particular type) PERSONNEL IN EACH OFFICE

108 Craddock Way, Suite 5, Poca, WV 25159

8. NAMES OF PRINCIPAL OFFICERS OR MEMBERS OF FIRM	8a. NAME, TITLE, & TELEPHONE NUMBER – OTHER PRINCIPALS
John Dwyer - President/Chief Executive Officer, 404-229-3808 John England - Chief Operating Officer, 303-517-2095 Melanie Brown - Chief Financial Officer, 404-601-6910	Lou Ehrhard - Vice President, 847-721-8000 Mary Lou Rochotte - Vice President, 740-236-3961

9. KEY PERSONNEL (Check mark key personnel below that you have on staff and will work on project)

☒ ADMINISTRATION	☒ GEOLOGIST	☒ QA/QC OFFICER
☒ CHEMIST	☐ HYDRO-GEOLOGIST	☒ TECHNICIAN
☐ ENVIRONMENTALIST	☒ LABORER	☒ CADD OPERATOR
☒ FIELD OPERATIONS MANAGER	☒ PROJECT MANAGER	☐ OTHER:

10. If submittal is by joint-venture, list participating firms & outline specific areas of responsibility (including administrative, technical & financial) for each firm. Each participating firm must complete a "Consultant Qualification Questionnaire".

10a. HAS THIS JOINT-VENTURE WORKED TOGETHER BEFORE? ☐ YES ☐ NO

11. OUTSIDE KEY CONSULTANTS/ SUB-CONSULTANTS ANTICIPATED TO BE USED. Attach "Consultant Qualification Questionnaire" for each.

NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO
NAME AND ADDRESS:	SPECIALTY:	WORKED WITH BEFORE?
		☐ YES ☐ NO

12a. Identify each individual supporting this project and their assigned tasks.

Mary Lou Rochotte, CPG, PMP, CQM - Project Manager
Jonah Anderson - Project Task Manager - Investigation and GW Sampling
Abdo Chaber, LRS - Project Task Manager - Remediation System O&M
Stephen Callihan, PG and Christine Horch, PG - Senior Project Geologists
Evan Amick, PG, LRS - Project Grologist
Christopher Hedrick - Remediation System O&M Technician, Ravenswood PCE Site
Dennis Sutton - Remediation System O&M Technician, Vienna Tetrachloroethene Site
Harrison Luckeydoo, GIT - Staff Scientist
Patrick Spurgeon - Staff Scientist
Bobby Casto - Environmental Technician
Lane Evans - Environmental Technician
Austin Slate - Environmental Technician

12b. Are the individuals supporting this project experienced in performing environmental site assessments according to USEPA Guidance for Performing Preliminary Assessments under CERCLA, Site Inspection (SI) Guidance Manual, Risk Assessment Guidelines for Superfund (RAGS), Hazard Ranking System (HRS) Guidance Manual, and using Dynamic Field Activities for On-Site Decision Making?

☒ **YES** Identify the project(s) and describe work performed that relates directly to the question:

KEMRON personnel have supported the Vienna PCE Superfund Site under multiple contracts, including prior remedial efforts and the recent Operation and Maintenance (O&M) contract awarded in 2024. This work has required a detailed understanding of CERCLA assessment processes, contaminant release mechanisms, migration pathways, and potential human and environmental exposure routes associated with chlorinated solvent contamination.

At the Vienna PCE Site, KEMRON staff performed activities directly aligned with PA/SI requirements, including:
• Review and interpretation of historical investigation data to identify multiple PCE source areas and document release characteristics.
• Evaluation of groundwater and soil vapor contamination to assess contaminant migration pathways and affected targets relevant to HRS scoring elements.
• Ongoing refinement of the site conceptual model based on new monitoring data and observed system performance trends.
KEMRON personnel have conducted soil vapor and system performance monitoring, evaluated analytical results relative to potential exposure pathways (including vapor intrusion), and assessed remedial effectiveness to support informed risk management decisions. Dynamic Field Activities have been routinely employed at the Vienna PCE Site. Field staff and project managers have exercised on-site decision-making authority to address access limitations, data gaps, system operational issues, and evolving site conditions while maintaining compliance with approved Sampling and Analysis Plans and Quality Assurance requirements.

The proposed personnel have hands-on experience applying USEPA CERCLA guidance from site assessment through long-term remedial action and performance monitoring. Their work at the Vienna PCE Superfund Site demonstrates direct, relevant experience with PA/SI processes, risk assessment principles, HRS-relevant evaluations, and dynamic field decision-making at a complex chlorinated solvent site.

☐ **NO**

12a. Identify each individual supporting this project and their assigned tasks.

Mary Lou Rochotte, CPG, PMP, CQM - Project Manager
Jonah Anderson - Project Task Manager - Investigation and GW Sampling
Abdo Chaber, LRS - Project Task Manager - Remediation System O&M
Stephen Callihan, PG and Christine Horch, PG - Senior Project Geologists
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Patrick Spurgeon - Staff Scientist
Bobby Casto - Environmental Technician
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12b. Are the individuals supporting this project experienced in performing environmental site assessments according to USEPA Guidance for Performing Preliminary Assessments under CERCLA, Site Inspection (SI) Guidance Manual, Risk Assessment Guidelines for Superfund (RAGS), Hazard Ranking System (HRS) Guidance Manual, and using Dynamic Field Activities for On-Site Decision Making?

☒ **YES** Identify the project(s) and describe work performed that relates directly to the question:

SYENSQO Cytec Groundwater System, Marietta, Ohio - Since 2002, KEMRON has provided operations, maintenance, and monitoring services in support of RCRA corrective action activities at the Syensqo (formerly Cytec) facility. Responsibilities include operation and maintenance of the groundwater extraction and treatment system; routine inspections; and regulatory compliance monitoring. KEMRON conducts process sampling to verify VOC removal, monthly air monitoring for de minimis air standards, annual POTW compliance sampling and Discharge Monitoring Report preparation, and pump and system maintenance. KEMRON also performs annual groundwater and Duck Creek surface water sampling using low-flow methods, including analytical sampling at approximately 25 monitoring wells and collection of groundwater elevation data from approximately 100 wells, and supports regulatory inspections with Ohio EPA and the POTW.

FIKE/ARTEL SUPERFUND SITE, Nitro, WV - KEMRON has provided long-term technical and field support at the Fike/Artel Superfund Site in Nitro, WV since 2002. Services have included groundwater and surface water investigations; soil vapor intrusion assessments; management and repair of an 11-acre remedial cap; and the sampling, assessment, and maintenance of an extensive groundwater monitoring network of approximately 150 wells and piezometers. KEMRON supported EPA dioxin assessments, conducted dissolved-phase plume delineation, coordinated demolition and asbestos abatement, and performed off-site access coordination. Remedial activities included pilot-scale testing of multiple in-situ treatment technologies—EVO injection, biosparging, ozone, and sodium persulfate—supported by installation of injection and performance monitoring wells, potable well surveys, and site-wide surface water assessments.

☐ **NO**

12a. Identify each individual supporting this project and their assigned tasks.

Mary Lou Rochotte, CPG, PMP, CQM - Project Manager
Jonah Anderson - Project Task Manager - Investigation and GW Sampling
Abdo Chaber, LRS - Project Task Manager - Remediation System O&M
Stephen Callihan, PG and Christine Horch, PG - Senior Project Geologists
Evan Amick, PG, LRS - Project Grologist
Christopher Hedrick - Remediation System O&M Technician, Ravenswood PCE Site
Dennis Sutton - Remediation System O&M Technician, Vienna Tetrachloroethene Site
Harrison Luckeydoo, GIT - Staff Scientist
Patrick Spurgeon - Staff Scientist
Bobby Casto - Environmental Technician
Lane Evans - Environmental Technician
Austin Slate - Environmental Technician

12b. Are the individuals supporting this project experienced in performing environmental site assessments according to USEPA Guidance for Performing Preliminary Assessments under CERCLA, Site Inspection (SI) Guidance Manual, Risk Assessment Guidelines for Superfund (RAGS), Hazard Ranking System (HRS) Guidance Manual, and using Dynamic Field Activities for On-Site Decision Making?

☒ **YES** Identify the project(s) and describe work performed that relates directly to the question:

CERCLA Remedial Investigation, Former ARMCO Hamilton Plant, New Miami, OH - KEMRON is completing a CERCLA Remedial Investigation (RI) on this approximately 250 acre National Priority List site. KEMRON is responsible for development and implementation of the Field Sampling Plan, Quality Assurance Project Plan, RI Work Plan, and the RI Report. The project includes evaluation of all media, including the Great Miami River biota and sediment, air, soils and groundwater for impacts from the site in accordance with CERCLA and NCP requirements. KEMRON regularly interacts with USEPA, the lead agency, and the state regulatory agency, and has negotiated project specific requirements with the regulators. As part of the RI process, KEMRON is managing the development of a sitewide HHRA and Baseline Ecological RA. All environmental data collected have been subject to thorough data review and data validation to ensure the RI provides a complete, accurate and fully defensible assessment of site conditions. The RI is currently being completed, and development of a Feasibility Study began in 2009.

KINGS MILLS USARC, Kings Mill, Ohio - KEMRON provided comprehensive technical, regulatory, and community involvement support to advance the Kings Mill U.S. Army Reserve Center site through the CERCLA process from site investigation through remedy implementation. Work included preparation of all required CERCLA documents; installation and sampling of soil borings and groundwater monitoring wells; and delineation of a shallow trichloroethylene (TCE) groundwater plume approximately 200 by 100 feet at the soil/bedrock interface. KEMRON prepared the focused feasibility study, Proposed Plan, and Decision Document (signed in 2007), designed and implemented a dual-phase high vacuum extraction system consisting of 18 extraction wells, treatment via air stripping and granular activated carbon, and four injection wells to establish a hydraulic barrier. KEMRON continues to support remedial action operations, monitoring, and five-year remedy effectiveness evaluations to achieve unrestricted future site use.

☐ **NO**

12c. Are the individuals supporting this project experienced in USEPA *Guidance for Quality Assurance Project Plans* (EPA QA/G-5) and the WVDEP *Quality Assurance Program Plan for the WVDEP OER CERCLA (Superfund) Program*?

☒ **YES** Identify the project(s) and describe the work performed that relates directly to the question:

KEMRON personnel assigned to this project routinely develop, implement, and adhere to project-specific Quality Assurance Project Plans and Sampling and Analysis Plans that are fully consistent with EPA QA/G-5 requirements. This includes defining data quality objectives (DQOs), establishing sampling and analytical protocols, specifying QA/QC procedures, documenting corrective actions, and ensuring data usability for CERCLA decision-making.

At the Vienna PCE Superfund Site, KEMRON staff have conducted groundwater sampling, system performance monitoring, and remedial O&M activities under the WVDEP OER CERCLA Quality Assurance Program Plan. Field activities were performed in accordance with WVDEP-approved SOPs and QA/QC requirements, including canister leak testing, use of field duplicates and blanks, and laboratory QA/QC review. These activities demonstrate direct, applied experience implementing WVDEP CERCLA QA requirements in the field and during data evaluation and reporting.

KEMRON personnel are also experienced in maintaining QA compliance across multiple WVDEP programs, including CERCLA, LUST, VRP, and UECA sites, ensuring that QA procedures remain consistent with both EPA QA/G-5 guidance and WVDEP OER expectations. Team members are familiar with incorporating WVDEP QAPP requirements into work plans and adapting QA procedures as guidance is updated, without compromising data integrity or regulatory acceptance.

☐ **NO**

12d. Are the individuals supporting this project experienced with the West Virginia contract laboratories?

☒ **YES** Identify the project(s) and describe work performed that relates directly to the question:

* Under WVDEP OER Order #CMA 0313 0313 DEP1700000015 (2018 - 2021) and WVDEP OER Order #AMA 0313 0313 DEP2500000022 1 (2025), KEMRON utilized WV Contract laboratories for groundwater sample analysis for samples collected at the Vienne Tetrachloroethene Superfund Site, Vienna, WV. * Under WVDEP OER Order #AMA 0313 0313 DEP2100000011 2 (2021 - 2023), KEMRON utilized WV Contract Laboratories for Soil, Air, and Groundwater Analysis on the following project: Howes Tannery and Lyon Oil. * Under WVDEP Order # AMA 0313 0313 DEP2100000016 and AMA 0313 0313 DEP2500000030, KEMRON utilized WV Contract Laboratories for Soil and Groundwater Analysis on the following projects: Dotson's Exxon (Elizabeth, WV) 2022-2025 and French's Kwick Stop (Hedgesville, WV) 2023. * KEMRON has utilized WV Contract Laboratories for Soil, Vapor and Groundwater Analysis on the following WVDOH projects from 2016 - Current: Anawalt Ridge Rd Culvert (Anawalt, WV) 2020; Armilda Bridge (Armilda, WV) 2019; Coalton Substation (Coalton, WV) 2016-2017; Culloden Interchange (Culloden, WV) 2020; East Lynn Rt. 22 Bridge (East Lynn, WV) 2021; Hardy Co. HQ (Moorefield, WV) 2023; I-77, Section 2 (Medina, WV) 2016; Ike's Fork Proposed Maintenance Facility (Ike's Fork, WV) 2023; Jackson County HQ (UST Closure) (Ripley, WV) 2016;Jamison No. 9 Bridge (Farmington, WV) 2025; Laurel Point Bridge (Morgantown, WV) 2022; Moatsville Bridge (Moatsville, WV) 2017-2019; Mouth of Seneca Bridge (Seneca Rocks) 2017; Oakford Ave (Richwood, WV) 2018-2019;Putnam County HQ (LUST Site) (Hurricane, WV) 2018-Current; Riley Run Bridge (Green Bank, WV) 2019; Rocky Fork Channel Beam Bridge (Cross Lanes, WV) 2024; Seng Creek Bridge (Whitesville, WV) 2020; and Slanesville Substation (Slanesville, WV) 2018-2019).

☐ **NO**

12e. Are the individuals supporting this project experienced with the WVDEP OER SOPs?

☒ **YES** Identify the project(s) and describe work performed that relates directly to the question:

The individuals supporting this project have extensive experience implementing WVDEP Standard Operating Procedures (SOPs) in conjunction with applicable USEPA guidance. KEMRON has utilized WVDEP SOPs since their inception on projects regulated under CERCLA, LUST, VRP, and UECA programs, and these SOPs are fully integrated into KEMRON's standard project execution practices. At the Vienna PCE Superfund Site, KEMRON personnel have conducted field activities, monitoring, and reporting in strict accordance with WVDEP Office of Environmental Remediation SOPs and Quality Assurance requirements. This includes application of WVDEP SOPs governing groundwater sampling, system performance air sampling, equipment leak testing, and QA/QC procedures. These SOPs have been used alongside USEPA-approved Sampling and Analysis Plans and CERCLA guidance to ensure consistency, defensibility, and regulatory acceptance of data.

KEMRON staff have also routinely applied WVDEP SOPs across state-led programs, including LUST, VRP, and UECA sites throughout West Virginia. This work has included:
• Environmental sampling and investigation activities performed in accordance with WVDEP SOPs for soil, groundwater, and soil vapor.
• Integration of WVDEP SOP requirements into site-specific work plans, SAPs, and Health and Safety Plans.
• Coordination with WVDEP project managers to ensure SOP updates and revisions are incorporated into ongoing and future work without disruption to schedules or data quality objectives.
Personnel assigned to this project are experienced in maintaining compliance when WVDEP SOPs evolve, including adapting field procedures, documentation practices, and QA/QC protocols to reflect newly issued or revised SOPs. This ensures that data generated under WVDEP oversight—regardless of regulatory program—is consistent, reproducible, and suitable for regulatory decision-making.

☐ **NO**

12f. Are the individuals supporting this project experienced with the Scribe software?

☒ **YES** Identify the project(s) and describe work performed that relates directly to the question:

DEPARTMENT OF THE NAVY, NAVAL STATION GREAT LAKES, GREAT LAKES, ILLINOIS - NAVAL STATION GREAT LAKES is a site where sampling was required from various water taps throughout buildings. Sampling needed to occur in a specific time frame, so Scribe was used for the planning and sampling phase. Site locations and sample names were input into Scribe and then labels and COCs were prepopulated to help expedite the sampling.

57TH AND BROAD – 57th and Broad is a remediation site that involves characterizing soil for removal and replacement with acceptable fill. Sampling involves both characterization and confirmation of soils. Data is stored in a database and KEMRON creates exports of all applicable files and data for import to EPA Scribe databases.

EAST TROY REMOVAL – East Troy is a remedial site that involves removing and replacing contaminated soils at a RCRA contaminated site. KEMRON is using Contract Laboratory Program (CLP) labs for analysis. KEMRON is using Scribe to create sample and CLP IDs and then assign the samples to bottle labels and COCs. KEMRON is then creating .xml exports for uploads to the CLP portal. Once data is received from the CLP lab, data is uploaded to the Scribe database and then sent to the EPA for upload.

☐ **NO**

12g. Have field personnel completed an OSHA 40-hour HAZWOPER course and mandatory 8-hour refresher training (as applicable)? The training must cover the requirements in 29 CFR 1910.120 including, but not limited to: personal protective equipment (PPE), toxicological effects of various chemicals, hazard communication, handling of unknown tanks and drums, confined-space entry procedures, etc.?

☒ **YES** Describe the training and list the name of the individual(s) certified who will be supporting this project:

OSHA 40-hour HAZWOPER course and mandatory 8-hour refresher training:
Mary Lou Rochotte, CPG, PMP, CQM;
Abdo Chaber, LRS;
Jonah Anderson;
Stephen Callihan, PG;
Christine Horch, PG;
Evan Amick, LRS, PG;
Christopher Hedrick;
Dennis Sutton;
Lane Brennan;
Harrison Luckeydoo, GIT;
Austin Slate;
Patrick Spurgeon; and
Bobby Casto.

☐ **NO**

12h. Are the individuals supporting this project experienced with the technical writing skills needed to meet the requirements of this project?

☒ **YES** Attach an example of the writing (preferably a Sampling and Analysis Plan or equivalent; all reports will be kept confidential) :

Provided as separate attachments in OASIS for confidentiality.

☐ **NO**

13a. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI): ROCHOTTE, MARY, L, CPG, PMP

Years & Type of Experience: >35 years: Geologist/Scientist, Project and Program Manager

Brief Explanation of Responsibilities

Ms. Rochotte will serve as a senior project manager and lead regulatory expert for the projects. She will serve as the main contact, delegating task management to Jonah Anderson (Site Investigation and Groundwater Sampling) and Abdo Chaber (Remediation System O&M).

EDUCATION (Degree, Year, Specialization)

MA, Geology, Miami University, Oxford, OH, 1989
BS, Geology, Marietta College, Marietta, OH, 1981

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

Member, Ohio Section, American Institute of Professional Geologists

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

Project Management Professional #1420972, expires 06/2026; Certified Professional Geologist CPG-10397, expires ;
USACE CQM, expires 11/2026

13b. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI): ANDERSON, JONAH, L

Years & Type of Experience: 20 years: Site Manager, Project Manager, Project Scientist, and Health and Safety Manager

Brief Explanation of Responsibilities

Mr. Anderson will serve as the Task Manager, supervising and coordinating site investigation and groundwater monitoring activities at both sites. Mr. Anderson will report to Mary Lou Rochotte and will share secondary level management roll with Abdo Chaber. Mr. Anderson will communicate directly with WVDEP representatives on matters concerning site investigation and groundwater monitoring activities as needed or as directed by Ms. Rochotte.

EDUCATION (Degree, Year, Specialization)

BS, Environmental Protection with a Minor in Microbiology from West Virginia University, WV, 2005

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

13a. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI): WILFONG, TERRY, L, LRS

Years & Type of Experience: 27 years: Staff Scientist, Project and Program Manager; and Regional Manager

Brief Explanation of Responsibilities

Mr. Wilfong serves as the Regional Manager responsible for direction, preparation, scheduling, and implementation of field and reporting activities at the Site.

EDUCATION (Degree, Year, Specialization)

BS, Environmental Protection/Science, West Virginia University, 1997
MS, Environmental Science, anticipated graduation - 2026, Marshall University

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

WV Licensed Remediation Specialist (#169), expires 3/31/2027

13b. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI): TUCKER, OKEY, PE

Years & Type of Experience: >35 years: Senior Engineer, Project Engineer, Project Manager, and Site Data Manager

Brief Explanation of Responsibilities

Mr. Tucker will be responsible for the coordination, management, and review of all site data generated.

EDUCATION (Degree, Year, Specialization)

December 1983 - BS Degree in Chemical Engineering from WV Institute of Technology, Montgomery, WV

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

Registered Professional Engineer, States of WV, expires ; OH, expires ; NC, expires ; MD, expires ; and VA, expires

13c. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI): CHABER, ABDO, D, LRS

Years & Type of Experience: 18 years: Project management, Site Investigation, and Environmental Remediation.

Brief Explanation of Responsibilities

Mr. Chaber will serve as the Task Manager, supervising and coordinating remediation system operation and maintenance, repair and troubleshooting activities at both sites. Mr. Chaber will report to Mary Lou Rochotte and will share secondary level management roll with Jonah Anderson. Mr. Chaber will communicate directly with WVDEP representatives on matters concerning remediation system operation and maintenance activities as needed or as directed by Ms. Rochotte.

EDUCATION (Degree, Year, Specialization)

BS Biology, Marshall University, 2001
MS Environmental Science, (in progress) Marshall University, anticipated graduation- 2026

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

Member of the West Virginia Air & Waste Management Association; Member of the West Virginia Monitoring Well Drillers Advisory Board (2015-Present);

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

WV, Licensed Remediation Specialist #285, expires 9/30/2027.

13d. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI): CALLIHAN, STEPHEN, M PG

Years & Type of Experience: 15 years: Hydrogeological Investigation, Site Characterization, and Environmental Remediation.

Brief Explanation of Responsibilities

Mr. Callihan will serve in tandem with Christine Horch as a Senior Project Geologist providing guidance for site activities, interpretation of site data and analytical results, direction for site investigation and groundwater monitoring activities, and supervision of field personnel.

EDUCATION (Degree, Year, Specialization)

BS, Geology, Appalachian State University, 2009

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

Georgia Registered Professional Geologist (PG002296); Texas Registered Professional Geoscientist (15037); and Arkansas Registered Geologist (3012).

13e. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI):	HORCH, CHRISTINE, PG
Years & Type of Experience:	26 years: Project Management,Technical Support, Environmental Investigation and Remediation

Brief Explanation of Responsibilities

Ms. Horch will serve in tandem with Steven Callihan as a Senior Project Geologist providing guidance for site activities, interpretation of site data and analytical results, direction for site investigation and groundwater monitoring activities, and supervision of field personnel.

EDUCATION (Degree, Year, Specialization)

M.S., Hydrogeology, Wright State University, 2001
B.S., Environmental Geology, Ohio University, 1998

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

Indiana Professional Geologist (No. 2394) (2013, exp. 6/30/28); Kentucky Professional Geologist (No. 112241)

13f. PERSONAL HISTORY STATEMENT OF KEY PERSONNEL (Furnish complete data but keep to essentials)

NAME & TITLE (Last, First, MI):	AMICK, EVAN, T, LRS, PG
Years & Type of Experience:	13 years: Project Management, Environmental Investigation and Remediation

Brief Explanation of Responsibilities

Mr. Amick will serve as a Project Geologist and report to Senior Project Geologists Steven Callihan and Christine Horch to report and obtain guidance for site activities, interpretation of site data and analytical results, direction for site investigation and groundwater monitoring activities, and supervision of field personnel.

EDUCATION (Degree, Year, Specialization)

BS, Geology, West Virginia University, 2013

MEMBERSHIP IN PROFESSIONAL ORGANIZATION(S) & REGISTRATION STATUS (Type, Year, State)

PROFESSIONAL LICENSE(S) (Type, State, Expiration Date)

WVDEP Licensed Remediation Specialist #494, expires 3/31/2026; Virginia Licensed Professional Geologist #002571, expires 8/31/2027

14. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED CONULTANT ON:			
PROJECT NAME, TYPE AND LOCATION	NAME/TELEPHONE COMPANY CONTACT	NATURE OF YOUR FIRM'S RESPONSIBILITY	PERCENT COMPLETE
Georgia Environmental Protection Division (GA EPD) Hazardous Waste and Underground Storage Tank programs since 2001.	Georgia EPD Jay Kemberling, PG 2 MLK, Jr. Drive, Atlanta, GA 30334 (404) 362-2687	Designed, installed, and operated >65 remediation systems for GA EPD's hazardous waste and UST programs. Systems addressed petroleum impacts and met strict remedial goals, with most completed within 24 months. Services included full O&M, sampling and reg. coord.	85%
Fort Sheridan CERCLA Remediation	USACE Louisville District	Remediation contractor since 2001 providing cap construction, treatment system installation, excavation and disposal. Currently continuing O&M and long-term monitoring of site to include sampling and analysis of wells at three sites, O&M of treatment system, and methane monitoring.	60% (current contract)
Crown Cleaners Superfund Site, Watertown, NY	EPA Region 2 Jeff Bechtel Tel: 908-420-4459	Perform in situ chemical oxidation injections to treat PCE-contaminated groundwater. Monitoring included zone of influence and system performance tracking, groundwater sampling, and data review to assess treatment effectiveness.	70%
Velsicol Chemical Corp. Superfund Site, Toone, TN	EPA Region 4 Allan Hernandez | Remedial Project Manager Tel: (404) 562-8667	Construct, operate, monitor, and maintain a SVE system at the North Disposal Area to remove VOCs, reduce human health risks, and comply with EPA performance standards over an eight-year period.	53%
Lone Star Army Ammunition Plant	U.S. Army USACE, Fort Worth District M. Saqib Khan, P.G. Tel: 918.669.7374	Perform monitoring at six sites, including groundwater, surface water, and methane gas sampling. Work supported RCRA, CERCLA, and post-closure permit requirements. Data evaluation included trend analysis. Submit annual reports.	30%

15. CURRENT ACTIVITIES ON WHICH YOUR FIRM IS THE DESIGNATED SUB-CONULTANT ON:			
PROJECT NAME, TYPE AND LOCATION	NAME/TELEPHONE COMPANY CONTACT	NATURE OF YOUR FIRM'S RESPONSIBILITY	PERCENT COMPLETE
Red River Compliance Monitoring	U.S. Army - USACE, Fort Worth District M. Saqib Khan, P.G. Tel: 918-669-7374	Monitored Natural Attenuation, Optimization, Sampling, Reporting under the RCRA permit. Reducing # of wells and optimizing sampling program.	80%
Mississippi Phosphates	US EPA Region 4 Sam Nunn Atlanta Federal Center (SNAFC) Craig Zeller, PE, Remedial Project Manager Tel: 404-273-7072	Groundwater / wastewater treatment operation, cap construction, excavation, site wide operation and maintenance, lab operation	90%
Fike/Artel Superfund Site Assessment, Remediation and Compliance, Nitro, WV	de maximus, Inc. 450 Montbrook Lane Knoxville, TN 37919	Site Assessment, Groundwater Monitoring, Remediation, Annual O&M, and Regulatory Compliance	75%
CCR Monitoring	Confidential Client	Developed groundwater sampling and analysis plans and performed CCR monitoring at Ohio power facilities per EPA regulations. Sampling targeted detection and assessment constituents Provided dewatering treatment	90%

16. COMPLETED WORK WITHIN THE LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A CONSULTANT TO:			
PROJECT NAME, TYPE AND LOCATION	NAME/TELEPHONE COMPANY CONTACT	NATURE OF YOUR FIRM'S RESPONSIBILITY	YEAR COMPLETED
Fort Jackson Columbia SC	US Army Environmental Command Brent Rabon, PE Contracting Officer's Representative, Tel: 210-466-1377	Under two contracts, performed long-term monitoring and optimization , including groundwater, surface water, sediment, and vapor monitoring at multiple sites to include well installation, soil boring, plume delineation, data reporting, and land-use control inspections	2025
Velsicol Chemical Corp. Superfund Site, Toone, TN	EPA Region 4 John Nolan (retired RPM) Tel. 404-562-8750 Geoff Kreiger, Contract Manager Tel: 404-562-8058	Constructed the SVE remediation system for the three-acre Middle Disposal Area. Upon installation, performed O&K to include; monthly monitoring and calibration, routine inspection and maintenance, monitoring of wireless remote monitoring system	2020
Fort Sheridan CERCLA Remediation	Jacobs Engineering David Klatt, Project Manager Tel: 312-480-9875	Continued O&M and long-term monitoring to include sampling and analysis of wells at three sites, O&M of treatment system, and methane monitoring. Excavated, transported, and disposed of 33,000 CY of non-hazardous waste to a Subtitle D landfill	2023
McAlester AAP	US Army Environmental Command Mission and Installation Contracting Command Environmental Division Cindy C. Hildner Tel: 210-466-2132	Performed groundwater and landfill monitoring under RCRA and CERCLA at , including annual sampling at multiple sites for VOCs, PCP, and PCBs. Conducted landfill cap inspections, land use control inspections, and RFI activities. Optimizes sampling frequecies.	2023
Moffett Field Site 26.San Francisco, CA	NAVFAC SW Brandon Mills, PG, Remedial PM Tel: 619-524-5887	Implemented enhanced reductive dechlorination with EVO and microbial injections at Conducted quarterly groundwater monitoring, performance sampling, and MNA evaluation. Installed wells, optimized well network, and verified contaminant reduction. Site Closure	2021

17. COMPLETED WORK WITHIN THE LAST 5 YEARS ON WHICH YOUR FIRM HAS BEEN A SUB-CONSULTANT TO:			
PROJECT NAME, TYPE AND LOCATION	NAME/TELEPHONE COMPANY CONTACT	NATURE OF YOUR FIRM'S RESPONSIBILITY	YEAR COMPLETED

18. Use this space to provide any additional information or description of resources supporting your firm's qualifications to perform work for the West Virginia Department of Environmental Protection.

KEMRON has been in continuous operation for more than 50 years, providing comprehensive environmental consulting, investigation, engineering, and remediation services to commercial, industrial, and governmental clients nationwide. KEMRON's core service areas include professional consulting; environmental assessment and investigation; site remediation and engineering; treatability studies and technology evaluation; underground storage tank (UST) management and inspection; emergency response; and geotechnical testing. Headquartered in Atlanta, Georgia, KEMRON maintains regional offices in Charleston, West Virginia; Marietta, Ohio; Vienna, Virginia; Chicago, Illinois; Denver, Colorado; and Seattle, Washington, providing both national reach and strong regional support.

KEMRON's corporate experience includes thousands of environmental property transactions, more than 500 remediation assignments, closure and redevelopment of over 150 properties, completion of more than 1,000 UST projects, and long-term operations and maintenance (O&M) services at more than 500 sites. Project experience spans manufacturing and chemical facilities, oil and fuel storage terminals, rail yards, service stations, dry cleaners, and commercial properties. In addition, KEMRON provides local resources bring more than 30 years of experience working directly with WVDEP representatives and performing work in accordance with WVDEP regulations, policies, and technical guidance.

KEMRON has extensive experience supporting both RCRA Corrective Action and CERCLA Remedial Action programs. While these programs differ in regulatory framework, KEMRON's experience demonstrates a strong understanding of the shared technical, regulatory, and operational requirements necessary to advance sites from investigation through remedy implementation and long-term management. KEMRON provides integrated services including site investigation, engineering design, analytical testing, in situ remediation, risk assessment, emergency response, and long-term O&M. KEMRON's regulatory specialists routinely interpret and apply federal and state environmental regulations, develop compliance strategies, and coordinate effectively with regulatory agencies to achieve timely and cost-effective outcomes.

For WVDEP projects, KEMRON has assembled an experienced team of engineers, geologists, scientists, remediation specialists, and field technicians. The team will be led by Ms. Mary Lou Rochotte, CPG, a senior project and program manager based in Marietta, Ohio, with more than 35 years of experience managing complex environmental projects. Ms. Rochotte has extensive expertise in the application and interpretation of the Safe Drinking Water Act, Clean Water Act, Resource Conservation and Recovery Act, and CERCLA, as well as state-equivalent regulations. She will serve as the single point of contact for technical, regulatory, and schedule decisions, ensuring effective project control and communication. Field and technical support will be provided primarily from KEMRON's Charleston, West Virginia and Marietta, Ohio offices, with additional support from the Martinsburg, West Virginia satellite office. With more than 30 full-time staff located in close proximity to project sites, KEMRON offers the local resources necessary to efficiently support environmental assessment, groundwater monitoring, remediation system operations and maintenance, and regulatory reporting for WVDEP projects.

19. The foregoing is a statement of facts. Should any information in this questionnaire be falsified or determined falsified at a later date, the West Virginia Department of Environmental Protection reserves the right to void any agreement or contract entered into between the undersigned and their respective firm and the WVDEP.

Signature:

Title: Regional Manager

Printed Name: Terry L. WIlfong, Jr., LRS

Date: 01/13/2025

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Signature:

Title: Regional Manager

Printed Name: Terry L. Wilfong, Jr., LRS

Date: 01/13/2025

MARY LOU ROCHOTTE, CPG, PMP
PROGRAM MANAGER/SENIOR PROJECT MANAGER /REGULATORY SPECIALIST

Ms. Rochotte has over 35 years of experience as a geologist/scientist, serving as a project and program manager. She is experienced in application and interpretation of Safe Drinking Water Act, Clean Water Act, Resource Conservation and Recovery Act and Comprehensive Environmental Response, Compensation, and Liability Act federal and state-equivalent regulations. As a KEMRON Project Geologist/Manager, Ms. Rochotte's project work has addressed environmental consulting needs of both private clients (chemical, steel, energy, airline/airport and agricultural industries) and government clients (US Air Force, US Army, US Army Reserve, US EPA). Her experience dealing with both the regulatory and regulated aspects of environmental issues allows her to identify and address key environmental issues in a time and cost-effective manner that meets the needs of the regulated entity and the regulator.

Education
MA, Geology, Miami University, Oxford, OH, 1989
BS, Geology, Marietta College, Marietta, OH, 1981

Registrations / Certifications / Training
- Project Management Professional #1420972, expires 06/2026
- Certified Professional Geologist CPG-10397
- Member, Ohio Section, American Institute of Professional Geologists
- OSHA 40 hour HAZWOPER (and applicable 8 hour refresher), expires 01/2023
- USACE CQM, expires 11/2026
- Microsoft Project
- Leadership
- Uniform Federal Policy for Implementing Environmental Quality Systems (UFP-QAPP)
- Meeting facilitation
- Pollution prevention strategies and integration
- Public involvement and media relations
- Reflection seismic data interpretation

Ms. Rochotte has been a lead regulatory specialist on multiple KEMRON federal and private client projects. Projects she has managed have encompassed: regulatory permitting (SDWA UIC, CWA and RCRA), CERCLA RI/Feasibility Study (FS), Proposed Plan and ROD, RCRA Corrective Action, Phase I and Phase II FAA, ASTM and Brownfields Environmental Site Assessments, UST removal and closure, facility environmental audits, baseline site assessments, soil, surface water and ground water sampling plan development, pollution prevention planning and integration, multi-media site audits/inspections, Federal regulatory and guidance development, public educational information development and presentation, and development/presentation of training (Underground Injection Control (UIC), Source Water Protection and other Safe Drinking Water Act technical topics, Regulatory Negotiations, Water Quality Monitoring and Reporting).

Prior to her employment at KEMRON, she was the UIC Program Manager for the Ohio Environmental Protection Agency, overseeing the state's regulation, inspection and enforcement program for Class I, Class IV and Class V injection wells. In that capacity and during her KEMRON tenure, Ms. Rochotte has provided regulatory consulting services to USEPA Headquarters and Regions as a UIC expert, authoring policy documents, authoring and providing training, and providing expert consulting for Class V enforcement in Region 10 regarding UIC storm water wells. Additionally, she has conducted UIC permitting and compliance consulting for multiple private sector clients.

SELECTED PROJECT EXPERIENCE

Senior Project Manager: Confidential Private Client. **June 2019-On-going.** Petroleum Refinery, Ohio.
Ms. Rochotte serves as a senior project manager and lead regulatory expert for a major Ohio refinery supporting Class I Underground Injection Control (UIC) well permit interpretation and compliance for the facility's three wells and associated systems. The facility received permits to drill and operate the wells prior to Ms. Rochotte's involvement. After operation of the wells began, compliance concerns and notices of violation were repeatedly issued by the regulatory agency, with escalating risk of enforcement action of grave concern when Ms. Rochotte and KEMRON were requested to the client's Counsel to provide consulting services for the facility UIC compliance program. On a highly expedited schedule, Ms. Rochotte met key Legal,

Environmental and Operations team members, as well as senior client management, at the facility to understand operation needs, the UIC system design and function, and begin identifying root causes of compliance and operational issues. She then led a team of scientists and data management personnel in redesigning required compliance reports, and supported the facility in realigning internal monitoring, data retention/recording and recordkeeping protocols, designed internal operations forms, developed compliance tracking documents, and identified internal operational and capital improvement needs to address the identified root causes. UIC well performance issues had also arisen, related to operational changes implemented at the facility while the prior compliance matters continued to be addressed. Ms. Rochotte worked with facility engineers to identify key concerns, and assisted the facility in locating and contracting a qualified UIC engineering firm to address well surface component issues and completion of compliant mechanical integrity and pressure fall-off testing. Ms. Rochotte worked closely with the engineering firm to develop well stimulation and maintenance methodologies to enhance well performance. Within six months from initial involvement of the KEMRON team under Ms. Rochotte's direction, all compliance reporting issues had been fully resolved, and plans for UIC well improvements were developed with schedules established to resolve key operational concerns. Since the facility's full implementation of the data management, retention and reporting changes developed by Ms. Rochotte, none of the well operations compliance reports have been the subject of a notice of violation or deficiency, and inspection reports by the regulatory agency have determined the facility to be operating in full compliance with its permits. Ms. Rochotte also has led a team of KEMRON regulatory experts, working with client in-house and external Counsel, to provide compliance and regulatory support for overall facility waste generation and management concerns. Ms. Rochotte continues to provide expert regulatory interpretation and compliance support for the facility's UIC program, overseeing KEMRON's preparation of all injection operations reporting for the site and providing regulatory advice as compliance concerns arise.

Senior Project Manager: Confidential Private Client. **September 2022-On-going.** Petroleum Refinery, Ohio. Ms. Rochotte led a team of KEMRON geologists/scientists in preparing permit to operate renewal application for the client's three non-hazardous underground injection control (UIC) wells. KEMRON worked collaboratively with a separately contracted engineering firm, which was responsible for required deep well plume modeling and well engineering elements of the application. KEMRON's team reviewed and updated all well operations, monitoring and maintenance data, local and regional geology, well construction and design changes since construction, and injectate chemistry. Ms. Rochotte led the team in development of multiple stand-alone plans that removed regulatory plan elements from the application, providing regulatory flexibility in the future, as the state regulatory agency has required any changes to plan elements contained in an application trigger requirements for a permit modification. She also used her strong regulatory knowledge to identify application text changes and modified language to reduce future regulatory liability for the client, including reduction of injectate and well monitoring requirements. Ms. Rochotte's team was responsible for full application quality control review and final formatting and assembly. The permit application and all plans were completed on schedule, with the full application and the deep well plans completed approximately 6 months from receipt of the client's notice to proceed.

Senior Scientist: Asset Retirement Obligation Reporting. **July 2020-December 2020**. Multiple U.S. Steel Manufacturing Facilities

Ms. Rochotte served as the Senior Scientist and Assistant Project Manager for this project for fifteen (15) active manufacturing facilities located through the eastern United States to identify Asset Retirement Obligations (ARO) for each site. Ms. Rochotte led the ARO reporting team for five of the 15 sites, and assisted in defining regulatory obligations for closure and reclamation (C&R) requirements for all other sites. The project included development of a questionnaire and interview of each facility environmental personnel, and development of plant-specific C&R scopes. For the five sites she managed, Ms. Rochotte led the review of each facility's operations including: all site-specific permits and engineering drawings for site environmentally regulated units; waste generation and disposal/recycling records; regulatory orders; federal and state regulations, policy and guidance; SPCC inventories; existing estimates regarding closure of site units (such as USTs, injection wells, wastewater treatment units, etc.); aerial photos and other information to identify any waste piles on site; leasing obligations; and other site-specific information. The information was

used to identify each site's C&R obligations, coordinate information requests for each site, and preparation of draft, final draft and final reports. The reports included summary text, detailed regulatory matrices, and a custom-designed site-specific cost model. The project was completed without ability to conduct site-specific visits due to the COVID-19 pandemic, on a highly compressed schedule. The reports for all 15 sites were completed with minimal client comment, on schedule and under budget.

Senior Project Manager: Confidential Client, PFAS Contaminated Drinking Water Alternatives Evaluation in Michigan. **12/2021 - On-going**.
Evaluating alternatives to address PFAS contamination in groundwater supplying a non-community non-transient groundwater water supply system. Project includes assessment of PFAS contaminants detected, and identification of potential alternatives for assuring workers are not exposed to PFAS via groundwater. An initial treatability study, as well as evaluation of feasibility to connect to an alternate water source, are included in the alternatives evaluation.

Senior Project Manager: Confidential Steel Manufacturing Client, Southwest Ohio. Wetland Delineation and Reporting. **03/2022-09/2022.** KEMRON was requested by the client to perform a wetland field assessment and delineation of approximately 250 acres within a large steel manufacturing facility in southwest Ohio. The facility has a large ditch and pond wastewater treatment system throughout the facility, which is included in its NPDES permit. Based on historic natural streams that were altered prior to current Clean Water Act requirements, and contribution of surface water flow from off-site sources, the project required a detailed evaluation and differentiation of regulated wetlands versus the permitted treatment system. KEMRON conducted an initial reconnaissance visit to collect locational data and create an initial map of the area included in the project scope. KEMRON subcontracted qualified wetland delineation personnel and led the team in the delineation effort, followed by preparation and issuance of a delineation report applying both Ohio EPA and US Army Corps of Engineers reporting standards. Ms. Rochotte supported client negotiations and technical discussions with the state and USACE in developing the approved jurisdiction request to USACE Huntington District. Based on KEMRON's work and submittals, the USACE Huntington District provided an Approved Jurisdictional Determination (AJD), verifying the identified wetlands were not jurisdictional waters of the United States. The USACE correspondence also confirmed that the approximately 38,376 linear feet of stormwater ditches and seven associated storm water ponds that were presented in the KEMRON reporting are features that serves as part of a drainage control treatment system used to meet effluent limits, and therefore, as part of the facility waste treatment system, are not jurisdictional water of the United States and not subject to permitting (including USACE dredge and fill permitting). These determinations were important to the client, to allow facility improvements to be planned and implemented in the evaluated area.

Senior Project Manager: Confidential Steel Manufacturing Client, Southwest Ohio. Expedited RCRA Facility Investigation and Reporting at Former Slag Processing Area Solid Waste Management Unit. November 2021/January 2023.
Ms. Rochotte was selected by the client to plan and lead implementation of an expedited RFI for a RCRA SWMU that historically was a slag processing area, and currently was in use as a steel slab storage and contractor office area. KEMRON was sole-sourced for this project based on strong facility and regulatory knowledge and relationships, and demonstrated commitment to quality investigative planning, field work and reporting. The RFI location is planned for industrial expansion. Ensuring a single drilling mobilization for RFI completion was essential. Ms. Rochotte led the KEMRON team in designing a site gridded soil and groundwater investigation, and achieved federal and state regulatory review and approval of the plan in less than 60 days from project initiation, leading focused meetings and briefings and applying her strong site and regulatory knowledge, and leveraging the strong relationships she has built with regulators overseeing this client site. KEMRON oversaw utility clearance using GPR and hydroexcavation, completed a gridded soil boring installation program that included an average of three soil samples per boring. New groundwater monitoring wells were constructed in nine of the soil boring locations. Following well development, two quarters of groundwater level measurements and sampling were completed. Constituents sampled in soil and groundwater included RCRA metals, total petroleum hydrocarbons, TCL VOCs, TCL SVOCs and PCBs. An

RFI data summary report was prepared and submitted three weeks following demobilization from the first groundwater sampling event. A report addendum will be prepared and submitted following receipt and screening of the second groundwater event. The report included all USEPA RCRA Facility Investigation elements, including Corrective Measures recommendations for the RFI Area. The RFI data for the expedited investigation area indicated no unacceptable risk to human or ecological receptors based on continued industrial land use. Therefore, no RCRA Interim Measures were recommended and no restrictions were identified as necessary for the facility to construct additional manufacturing facilities in the investigation area. USEPA provided unconditional approval of the expedited RFI finding in correspondence dated December 23, 2022. The expedited RFI data will be incorporated into the larger RFI/CMS Area and process, which will be completed in the future. All elements of the work were completed on or ahead of schedule and within budget.

Senior Project Manager: Confidential Mining Client, Minnesota. Arsenic Surface Water Contribution Investigation. **May 2022/December 2022.**
KEMRON was selected to conduct a privileged and confidential evaluation of arsenic contribution to surface water runoff to Lake Superior. The client's product is one potential contributor at a storage location where multiple products are stored. KEMRON is performing laboratory testing and client information and data review to assess the client's materials for potential arsenic leaching and contribution to a discharge to Lake Superior. KEMRON also is performing a desktop review of the storage facility's other potential arsenic stormwater contributions. Ms. Rochotte was selected to lead the project, which includes development of a work plan, sampling and analysis, review and assessment of client data and acquisition and evaluation of publicly available records for the storage site. The confidential report completed concluded that multiple other sources of arsenic exist, and KEMRON's work strongly supported the client's ability to negotiate with the entity alleging that the client's material was an arsenic contaminant source.

Senior Project Manager: Private Client, Legacy Landfill Site, Ambridge, PA. **June 2020-December 2022.** The legacy industrial waste landfill at this PA site is subject to NPDES permitting, and a PADEP Consent Order and Agreement (COA). The primary COCs are PCBs and metals, which are leaching from the legacy landfill into seeps and groundwater, creating water quality discharge concerns. In 2012-2013, a barrier wall, collection piping, PCB oil collection wells and skimmer units, and an oil/water separator system were installed at the site to capture and manage PCB-contaminated water. The project includes design of a new wastewater treatment system to treat collected waters for removal of low level PCB contamination prior to the permitted discharge. KEMRON was requested to manage the project beginning June 2020. On a rapid turn-around schedule, KEMRON and its subcontractors provided geotechnical drilling and analysis support, revisions to the treatment plant design based on newly updated site precipitation data and treatment surge capacity design needs, site wetlands delineation and PADEP Chapter 105 wetlands encroachment permitting, and regulatory interpretation, review and support. KEMRON's team completed and submitted the PADEP Chapter 105 wetlands permit application, responded to all regulatory review questions, resolving all concerns and achieving issuance of the permit in December 2022 to ensure the client's construction project could proceed unhindered.

Senior Project Manager: AK Steel Bridgeville, PA. **June 2020-January 2021.** This legacy site initially was owned by Vanadium Corporation of America (VCA), and pitchblende and vanadium ore processing were conducted on site, generating residual pitchblende ore and vanadium tailings; the pitchblende contained uranium oxides. The Bridgeville site was involved in limited research and processing of uranium for the Manhattan Project during WW2. The property subsequently was owned by others, with AK Steel ultimately assuming site liability. A drum removal and remediation project were conducted at the site in 1981. Electric arc furnace (EAF) slag was used to infill a railroad cut in the 1980's, under a PADEP-approved closure plan. The USDOE conducted a radiation survey and conducted remediation at the site in 1986 under the Uranium Mill Tailings Remedial Action Project (UMTRAP). Since that time, various regulatory inspections and negotiations have occurred, with AK Steel proposing to cap the site, in addition to BMPs that are installed to mitigate discharge concerns (focused on metals and low level PCBs). PADEP issued a draft Consent Order and Agreement (COA) in 2020, which remains under negotiation. In addition to supporting the AOC review and comment, Ms. Rochotte led the KEMRON team in review of the historic radiation survey records,

identifying the need for additional radiation evaluation in advance of future capping design development. Using a specialty subcontractor, Ameriphysics, Inc., the USDOE data and reporting was reviewed, identifying that it was appropriate to conduct an additional radiation scoping survey for the site. The survey was planned with input from PADEP, and the work was conducted on an expedited schedule in parallel with COA comment/negotiations. The results of the scoping survey revealed the need for additional regulatory discussion to ensure that future site work addresses all relevant regulator concerns with respect to radiation, in addition to metal and PCB COCs. The radiation results will be incorporated into the on-going regulatory discussions and site design work that will be conducted by others.

Program Manager: Multiple RCRA Facility Investigations and Corrective Measures Studies, Major Steel Manufacturer. **Apr 2013/On-going**. Ms. Rochotte leads a team of engineers, geologists, risk assessment professionals and scientists in planning and implementing multiple RCRA Facility Investigations (RFIs), CMSs, and Interim Measures (IMs), as determined necessary, at a major steel manufacturing facility located in Ohio. The RFI/CMS process is required under a Consent Decree with multiple signatories, with encompassing a total of 50 SWMUs, HWMUs, AOCs and Additional Areas of Potential Concern requiring investigation and/or remedial alternative analysis. Ms. Rochotte is responsible for all aspects of the RCRA Consent Decree management, including: reporting, communication and negotiation with USEPA and the State regulatory personnel; development and implementation of all required permitting with local, state and federal authorities; scheduling and overseeing all Work Plan development; providing Technical Oversight of the field implementation of the RFIs and IMs; preparation of the human health and ecological risk assessment elements of the RFIs, development of RFI Reports, CMSs and Corrective Measures Implementation (CMI) Work Plans. Ms. Rochotte directs and manages all data review and validation, data management and presentation, identification of any remaining data gaps and development of plans to address the data gaps to complete delineation of the nature and extent of all constituents of potential concern. The various RFI work plans encompass evaluation of surface and subsurface soils, groundwater, soil gas, air, surface water and sediment, as well as historic waste units (including but not limited to closed landfills, lagoons, and ponds).

Ms. Rochotte also is responsible for preparation of budgetary forecasts and all financial assurance documentation for the Consent Decree RFI/CMS/CMI program. Ms. Rochotte manages regulatory requirements and reporting for all IM Operation and Maintenance (O&M) activities, including monitoring and reporting for a groundwater interceptor trench and treatment system, and a sheet pile wall with DNAPL recovery wells and contaminated groundwater treatment. She authors public information and outreach materials, and ensures the public has access to decision-making documents through the Information Repository that KEMRON maintains at a local public library.

Ms. Rochotte provides significant regulatory and project risk evaluation for the client regarding the Consent Decree work, coordinating frequently with senior client environmental managers to identify potential liabilities and risks, and develop strategies to best manage them. Her regulatory insights and knowledge and strong project management and communication skills have established a rapport and level of trust with the regulatory personnel that was absent in the program prior to her involvement. Her risk identification and management skills have provided the client with many cost savings, liability protections and project forecasting abilities.

The chemical constituents evaluated under the RFIs and IMs include VOCs, SVOCs, PCBs and metals in multiple environmental media, based on historic management of steel manufacturing related products and wastes. Parcels subject to IMs and RFIs include both client-owned and privately held parcels. Since assuming management of the various Consent Decree projects, she has successfully negotiated multiple changes in key documents that have resulted in benefit to the overall environmental impact of the projects involved, with supplemental significant benefit to the project budgets and schedules. She has overseen successful negotiation of permits issued by the State and US Army Corps of Engineers. To date, she has prepared and secured 23 access agreements for off-site RCRA field work. All project work under her direction to date has been completed on or ahead of schedule and within the budgets authorized by the client. During 2013-14, the streamlined processes and revised scopes of work Ms. Rochotte developed and oversaw for project elements previously prepared by others resulted in reduced environmental liability to the client and

provided client cost savings over $1,000,000. Under her direction, three RCRA IMs have been successfully completed without significant regulatory comment and with unconditional approval of the Completion Reports.

Ms. Rochotte has directed development of multiple RFI Work Plans, addenda for RFI step-outs, RFI Reports, Risk Assessment Assumptions Reports, CMS work plans, Alternative Summary Reports, CMSs and CMI Work Plans for regulatory review and approval.

The various RFI/CMS/CMI area-specific project descriptions are provided below:

Two closed landfill SWMUs RFI/CMS: April 2013-On-going. Two separate SWMUs were subject to RFI together, consisting of two closed landfills located in the facility's slag processing area. One SWMU is approximately 38 acres in size, was used for disposal of a wide range of facility wastes ranging from wastewater treatment sludges, coke plant wastes, slag and various other wastes. ***DNAPL*** is present in the landfill, however, the subsurface environment is highly heterogeneous and no discrete DNAPL source area is identifiable. The DNAPL is believed to be associated with historic presence of up to 17 oil ponds formerly operated on the western portion of the SWMU, used to separate and reclaim oil from wastewater placed in the ponds. The RFI was initiated by a prior consulting firm and completed by KEMRON under Ms. Rochotte's direction. RFI work included installation of soil and in-situ waste borings, construction of groundwater monitoring wells in three separate monitoring zones, conduct of pump and drawdown tests in groundwater monitoring wells and in-situ waste borings, soil gas well installations, and sampling and analysis of surface, intermediate and deep soil, groundwater, soil gas, and adjacent surface water and sediment. Sampling and management of landfill seeps have been conducted under Interim Measures work, and a DNAPL capture and treatment barrier wall system was constructed and continues to be operated as a RCRA Interim Measure, to prevent release of DNAPL to an adjacent stream. COPCs include **VOCs, metals, SVOCs, and PCBs**, with the RFI concluding that key risk drivers are VOCs, specifically benzene, and PCBs in the DNAPL/waste and shallow groundwater are the key risk driver for the SWMU.

The second SWMU consists of an approximately 18 acre closed landfill that primarily received industrial wastewater treatment sludge and facility debris. No oil ponds were operated nor were coke plant wastes reported as disposed in this landfill. COPCs include **VOCs, metals, SVOCs, and PCBs**. Limited detections of metals, SVOCs and PCBs exceed unrestricted land use for this SWMU, but no detections exceed hazardous waste characteristic standards.

Ms. Rochotte led the preparation of one RFI Report for both SWMUs, which EPA approved. Based the differing character of the wastes and RFI findings as to potential risk posed by the two SWMUs, and differing Corrective Measures that were necessary to be considered for each SWMU, Ms. Rochotte recommended and USEPA agreed that separate CMS Work Plans and Alternative Summary Reports should be prepared. KEMRON authored these documents for each SWMU, and USEPA approved each. Based on the anticipated need for a new engineered cap for the first SWMU, a separate engineering firm was selected to prepare the CMS, with Ms. Rochotte providing historic RFI information, records, and providing guidance regarding the CMS. Ms. Rochotte led a KEMRON team in preparation of the second SWMU CMS. The CMSs were submitted and USEPA commented on each, with revised CMSs for each SWMU being submitted in November 2022 and March 2023, respectively. The CMSs remain under regulatory review. A new engineered cap, long term groundwater monitoring, and application of an Environmental Covenant to access and groundwater and land use limitations are the recommended Corrective Measures for the first landfill. Maintenance of the existing cap and long term groundwater monitoring, with application of an Environmental Covenant establishing land and groundwater use limitations are the recommended Corrective Measures for the second SWMU.

Closed Wastewater Lagoons and Drying Bed SWMU: April 2013-July 2015 One Solid Waste Management Unit (SWMU) RFI included investigation of closed wastewater lagoons and a drying bed , known as SWMU 23, included volatile organic and metal constituents of potential concern (COPCs). Ms. Rochotte led the team that prepared the RFI Work Plan, and KEMRON provided oversight of another contractor's field

implementation of the KEMRON-authored RFI Work Plan first phase implementation. KEMRON prepared all data presentations and the Risk Assessment Assumptions Report under Ms. Rochotte's leadership; these submittals were approved with minimal comment. KEMRON's data presentation demonstrated an absence of potential human health or ecological risk at this site. KEMRON's risk-based data evaluation and reporting resulted in ***achievement of a USEPA No Further Action determination*** for the SWMU.

Privately Owned Additional Areas RFI/CMS/CMI: April 2013-On-going. Nine privately owned parcels where PCBs in soil were suspected to be present from historic dredge spoil placement were investigated under the RFI Work Plan prepared by Ms. Rochotte's team. Ms. Rochotte leads all property owner interactions, establishment of access agreements, preparation of field updates, regulatory reports, figures and schedules with proactive interaction at each step to assure the property owners are fully advised of the RFI/CMS progress and results. KEMRON oversaw another contractor's field work for the initial RFI phase, and subsequently self-performed additional RFI phases. ***Seven of the nine parcels achieved an EPA decision of No Further Action***, based on KEMRON's evaluation and presentation of the RFI Data. The remaining two parcels were determined to have PCBs present above the unrestricted use promulgated standard. Ms. Rochotte led the team's preparation of the CMS Work Plan (approved without comment) and the Alternatives Summary Report (approved with minimal EPA comment), followed by CMS preparation under Ms. Rochotte's direction as a streamlined submittal with the Corrective Measures Objective for both parcels being restoration to unrestricted use PCB standards. The CMS was approved and a Work Plan, patterned after the USEPA PCB regulations for a self-implementing PCB cleanup. The ***CMI Work Plan was unconditionally approved***, and Ms. Rochotte is leading preparations for implementation of the remedial work, including interactions with the private property owners to establish CMI access agreements and post-CMI restoration requirements, developing the work schedule, and preparing the bid package for the client to competitively bid the scope of work.

Slag Processing Area RFI: April 2013-On-going. The facility's slag processing area is a large industrial area subject to RFI, with investigation areas incorporating closed landfills, closed oil separator ponds, slag management areas, historic transformer areas, AST locations, other steel-making byproduct storage areas, and former waste disposal and/or management areas. The area is bounded by two streams, such that migration from the RFI area to surface water requires evaluation. After achievement of regulatory approval of the initial RFI Work Plan as prepared under Ms. Rochotte's direction, KEMRON implemented the work plan, then created data presentations to identify remaining data gaps. Ms. Rochotte led the team in preparing a plan for the next RFI phase, which KEMRON also has implemented following USEPA approval of the work plan addendum. An additional RFI Work Plan Addendum remains under regulatory review, and pending USEPA approval, will be implemented as what KEMRON anticipates will be the final RFI Phase, leading to RFI Report preparation. Ms. Rochotte leads and directs all planning and data displays for historic and current data and information including areas that have had Interim Measures completed, to provide a comprehensive display of the soil, groundwater and surface water data, assessing whether data gaps remain, and presenting the data to the Regional and State regulators to refine the path forward toward RFI completion and preparation of a CMS. COPCs include PCBs, metals, VOCs and SVOCs.

TCE in Groundwater RFI: Ms. Rochotte led a team in developing the RFI Work Plan for investigation of an area with **Trichloroethene (TCE) impacted groundwater**. The work was planned and implemented on an expedited basis, to **evaluate potential vapor intrusion risk** to nearby commercial structure occupants. The work plan, achievement of regulatory concurrence, implementation and reporting were completed ahead of schedule under Ms. Rochotte's leadership. The report remains under regulatory review, with conclusion that the TCE is from an off-site source and data demonstrating that there is no unacceptable risk to occupants of the nearby structure. This TCE investigation area was an area of concern within a larger parcel slated for RFI. To expedite the TCE investigation, Ms. Rochotte devised a means to split the area of concern out and address it in a focused RFI Work Plan addendum, with site-specific data quality objectives and decision criteria. This focused investigation allowed the client to address regulatory concerns while maintaining the previously established overall facility-wide prioritization and scheduling for the Consent Decree RFI/CMS implementation.

Coke Plant and Blast Furnace Area RFI: The RFI area includes SWMUs and AOCs in the vicinity of the facility's blast furnace, basic oxygen furnace, and coke plant. Ms. Rochotte again led a team in developing the RFI Work Plan, and implementing two separate RFI phases (the first under the original RFI Work Plan and the second under Addendum 1 to the Work Plan). The **primary COPCs include VOCs, SVOCs, PCBs, and ammonia**, associated with coke manufacturing and waste generation areas, facility sumps, blast furnace ponds, an historic waste pond area, and coke oven gas/gas line components. An additional phase of the RFI is described in a Work Plan Addendum prepared under Ms. Rochotte's leadership, and pending implementation; the scope of work is anticipated to be conducted in calendar year 2024.

Hot Strip Mill and Cold Mill/Coatings RFI Areas: March 2016-On-going. Two additional RFI Work Plans were prepared under Ms. Rochotte's direction and are pending USEPA approval and KEMRON implementation. SWMUs and AOCs in these RFI Areas include historic PCB-containing materials storage areas, wastewater treatment plant components, historic facility hazardous waste storage areas, and both active and inactive used oil reclamation facilities. COPCs are primarily VOCs, SVOCs and PCBs.

Senior Project Manager: Former E.G. Smith Property, Cambridge, OH. **October 2017 to present (on-going).** Ms. Rochotte was requested by the client to assume the role of Project Manager for this RCRA Corrective Action site in order to resolve regulatory issues and establish a productive movement of the site through the completion of a Corrective Measures Study (CMS) and into selection of the site remedy, followed by implementation of the remedy. The RCRA Facility Investigation (RFI) was completed as a facility-led RCRA Corrective Action project. While the client owns a portion of the affected property, the site involves an active manufacturing facility that is owned and operated by others. This multiple ownership division of the property results in Ms. Rochotte negotiating and managing input from the client, the current owner and the regulatory personnel. Additionally, the **chlorinated volatile organic compound (C-VOC) groundwater contamination plume** was identified as having migrated off-site, requiring negotiation of access with other entities. While C-VOCs and metals in soil, and C-VOCs in groundwater are site constituents of concern from historic operations and waste management practices, remediation completed to date resulted in **TCE contamination of groundwater** being the remaining key constituent and medium of concern. The RFI was completed prior to USEPA's reduction of the TCE risk-based screening level; therefore, the state regulatory agency requested additional evaluation of the **potential vapor intrusion pathway** at the site. Additionally, unresolved regulatory concerns existed regarding delineation of the extent of groundwater contamination and adequacy of the remedial alternatives that had been proposed in a draft CMS prepared by others. Upon assumption of the Project Manager role, Ms. Rochotte directed design of a phased approach to refine site understanding. The phased approach was approved by the regulatory agency and implemented by KEMRON personnel to identify data gaps, refine the understanding of current site conditions, and identify additional steps necessary to reduce uncertainty with regard to appropriate CMS remedial alternatives evaluation. Ms. Rochotte led the development and implementation of a groundwater sampling and analysis work plan, and a subsequent vapor intrusion (VI) sampling and analysis plan. Using the updated data set, Ms. Rochotte directed development of a report to address remaining regulatory comments on the draft CMS, identifying technical matters that were resolved by the current data and proposing additional refinement data collection where indicated by regulatory standards and the decision criteria included in the KEMRON work plans. All remaining data gaps were identified and resolved with data collection, with evaluation of the dataset using geospatial and statistical tools, accompanied by conferring with regulatory personnel, resulting in agreement that the dataset had sufficiently addressed uncertainty and data gaps. KEMRON provided a significantly revised CMS report to Ohio EPA, which was approved in May 2022.

The state regulatory agency issued the Statement of Basis in fall 2022, followed by issuance of a final Decision Document in June 2023. Ms. Rochotte is working with client and the two other property owners to finalize three separate Environmental Covenants that are included in the selected Corrective Measures. KEMRON also is drafting the Corrective Measures Implementation (CMI) Work Plan, which includes the land use controls specified in the Environmental Covenants, long term groundwater monitoring, facility inspections

and periodic reporting on groundwater concentrations and trends, and Site conditions. As part of project management tasks, KEMRON also has characterized and managed investigation derived waste, prepared closure costs and Corrective Measures cost estimates, and coordinated with the client's legal counsel regarding off-site access agreement development and regulatory interpretation questions as they arise.

Senior Scientist: Moses Lake Wellfield Contamination Site, Moses Lake, Washington. **November 2017 to January 2018**. Ms. Rochotte managed plan preparation for the Moses Lake Wellfield Contamination Site project work, which was awarded as a remedial project under the direction of USEPA and USACE. Ms. Rochotte established and managed a team of scientists to develop a comprehensive set of work plans for the remediation project regarding surface soil and disposal trench areas to address contamination in accordance with the USEPA Interim Record of Decision. Environmental media involved in the project included soil, groundwater and waste deposits, with key constituents of concern including: TCE, petroleum hydrocarbons, lead, arsenic, mercury, and PCBs. Ms. Rochotte served as lead author or lead reviewer on six of the key project documents, including: Excavation Work Plan, Stormwater Pollution Prevention Plan, sheeting and shoring plan, waste management plan, environmental protection plan, UFP-QAPP, and contractor quality control plan. These plans all were approved by the client with minimal or no comments, on an expedited schedule and within a very limited budget.

Senior Project Manager: Class I Hazardous Underground Injection Well Permit Application, Confidential Manufacturing Facility. **March 2011 to April 2012**. Ms. Rochotte led a team of engineers and geologists, including a subcontracted engineering firm, in preparation of a Class I Underground Injection Control well permit application for approval by the state regulatory personnel. Included in the application was a comprehensive presentation of local and regional geology and hydrogeology, detailed well testing and monitoring history and plans for future monitoring and testing, and engineering analysis to demonstrate containment of injected waste. The permits to operate were issued by the State in 2013 with minimal comment on the applications as submitted. The resulting permits provided multiple compliance clarifications and reductions of environmental liability based upon language negotiated by Ms. Rochotte with regulatory personnel during the permitting process.

Senior Project Manager: Class I Hazardous Underground Injection Well Permit Application, INEOS Nitriles, Lima, Ohio. **July 2021/February 2022**. Ms. Rochotte led a team of engineers and geologists in review and revision of portions of this chemical manufacturing facility's Class I Hazardous Underground Injection Control well permit renewal application for submittal to the state regulatory agency. KEMRON's scope of work included comprehensive presentation of local and regional geology and hydrogeology, evaluation of all artificial penetrations in the defined Area of Review to identify any potential migration pathways from the injection zone to underground sources of drinking water, updating data and interpretation from the facility's seismic monitoring program, and demonstration that the site continues to meet applicable siting criteria.

Senior Project Manager: Class I Hazardous Underground Injection Well Permit Renewal Application, Confidential Manufacturing Facility. **March 2018 to April 2021**. Ms. Rochotte was selected to lead a team of engineers and geologists, including a subcontracted engineering firm, in preparation of a Class I Underground Injection Control well permit renewal application for approval by the state regulatory personnel. The application is based significantly on the successful application filed in 2012, and includes updates to local and regional geology and hydrogeology, detailed well testing and monitoring history and plans for future monitoring and testing, and engineering analysis to demonstrate continued containment of injected waste. The draft renewal permits were issued by Ohio EPA in October 2020. Ms. Rochotte led the draft permit review and comment, authored the client's comments for submittal, participated in the virtual public meeting, and is led regulatory negotiations to resolve the underlying issues for the comments in advance of Agency final permit issuance.

Senior Project Manager: Former ARMCO Hamilton Plant, New Miami, OH. **Apr 2008/On-going.** Ms. Rochotte is managing the completion of a CERCLA Remedial Investigation (RI) and FS on this approximately 250 acre proposed National Priority List site. She is responsible for development and implementation of the

Field Sampling Plan, Quality Assurance Project Plan, RI Work Plan, the RI Report, and development of remedies for the Areas of Concern. The Site historically housed a steel mill with coke manufacturing and coke byproducts areas, blast furnace and ponds, sinter mill, and slag management areas; USTs and ASTs contained fuel and fuel oil. Waste areas include a closed hazardous waste landfill and an historic laydown and sludge/waste storage/management area. **Constituents being evaluated include VOC, SVOCs, dioxins and furans, metals, and PCBs**. The project includes evaluation of all media, including the Great Miami River biota and sediment, air, soils and groundwater for impacts from the site in accordance with CERCLA and NCP requirements. Ms. Rochotte regularly interacts with USEPA, the lead agency, and the state regulatory agency, and has negotiated project-specific requirements with the regulators. As part of the RI process, Ms. Rochotte is managing the development of a site-wide Human Health Risk Assessment and Baseline Ecological Risk Assessment. Ms. Rochotte oversaw the development of a sampling and analysis plan for a site-specific soil background dataset to be used in the risk assessments. All environmental data collected have been subject to thorough data review and data validation to ensure the RI provides a complete, accurate and fully defensible assessment of site conditions. The RI is currently being completed, and development of a Feasibility Study will follow. Adjustments to the groundwater monitoring network were planned and executed in 2022 under Ms. Rochotte's direction, to provide a more representative monitoring network. Periodic additional groundwater sampling and analysis events have been conducted in the on-site monitoring network of nearly 50 wells that target three separate monitoring zones, and two off-site wells located on private property. Multiple changes in regulatory oversight personnel have negatively impacted the project; however, Ms. Rochotte has communicated well with each assigned regulatory project manager to the benefit of the project. The work includes negotiation and maintenance of access to off-site privately held property for purposes of groundwater monitoring, and interpretation of Site COC fate and transport.

Senior Scientist: Class I UIC Well Workover Technical Consulting. **August 2011 to May 2015**. Ms. Rochotte served as a Senior Geologist in advising a client regarding planning and execution of major workovers of two Class I hazardous waste injection wells completed at depths of approximately 3,200 feet below grade. Ms. Rochotte served as the lead regulatory expert, working in conjunction with an engineering firm directly contracted by the client. She led all regulatory discussions and coordination, facilitating meetings and technical conference calls with the technical and regulatory team. Under her guidance, all regulatory plans were approved and the project was able to proceed without regulatory delays that would otherwise have put the facility's operations at risk and avoided potential multi-million dollar off-site transport and disposal costs of the wastes normally injected in the wells. She also led a KEMRON team in identifying potential project schedule, budget and safety risks, and provided direction to the client for monitoring and managing wastes produced back from the well and otherwise generated during the workovers. Based on recommendations provided, the client was able to manage much of the wastes through internal facilities at a significant cost savings compared to off-site disposal. Also implementing her recommendations, salvaged materials from the well workover were able to be cleaned and disposed or recycled by plant personnel rather than through disposal firms, providing additional cost savings.

Senior Project Manager: Technical Oversight of RCRA Interim Measures PCB Remediation, Confidential Manufacturing Facility. **Apr 2012/Feb 2014;** Interim Measures Monitoring and Maintenance **2013-2020**. This project involved oversight of a PCB remediation effort in a stream and the stream floodplain, with work conducted under the requirements of a Consent Decree with both federal and state regulatory oversight. The project is conducted in two phases, and in accordance with two separate design documents originally prepared by another consultant. As the project manager, Ms. Rochotte was responsible for assuring all required project documentation and permitting was completed prior to the remediation contractor's mobilization. This included receipt of a US Army Corps of Engineers Nationwide Permit 38, as well as state and local permitting. Ms. Rochotte also directed a KEMRON team of engineers and scientists to complete Design Changes, updates and addenda to the project Quality Assurance Project Plan and Design Document. Ms. Rochotte successfully negotiated and maintained access agreements for multiple properties not owned by the client with great success. KEMRON is responsible for all technical oversight of the project, construction quality assurance, data review and validation and all interactions with and reporting to the federal and state regulatory personnel. The completion report for the 2012 project phase was approved by USEPA

with few comments, and KEMRON successfully negotiated with USEPA to eliminate deed notations that initially were conditions of approval. The 2013 phase of the project was completed under budget and ahead of schedule. Both USEPA and the state regulatory agency have expressed that they are highly satisfied with the work as completed. Five years of post-remedial monitoring, conducted through 2019 and documented in reports (2014-2020), demonstrated successful achievement of all Interim Measures performance objectives.

Senior Scientist: Sampling and Analysis Plan for RCRA Order, Confidential Client. **Sep 2012/Dec 2013.** Ms. Rochotte served as a Senior Scientist in development of a sampling strategy and identification of data quality objectives for multiple sites within a recently closed manufacturing facility in USEPA Region 4. USEPA issued a unilateral order for the sampling and analysis plan, based on its observations in the field during a limited federal inspection and sampling event. In support of the Project Manager, Ms. Rochotte developed decision criteria and data quality objectives for the sampling event and potential subsequent investigatory steps under the Order.

Senior Project Manager: Hazardous Waste Disposal Efficiency Evaluation, Confidential Manufacturing Facility. **Sept 2011**. In providing compliance support to a major manufacturing facility that is a large quantity hazardous waste generator, Ms. Rochotte identified potential issues with the efficiencies of the management of a key facility acidic hazardous wastestream, including filtration and ultimate disposal. She assembled a team of KEMRON and subcontractor personnel to conduct an evaluation of the wastestream management, including chemical and scanning electronic microscope analysis of wastestream samples, evaluating waste management system trends and metrics, and providing recommendations for improvements to the waste management system to reduce compliance risks and enhance system efficiencies.

Senior Project Manager: Conduct of Confidential RCRA Audits at Major Manufacturing Facilities. **Jun 2010-Feb 2022**. Ms. Rochotte led a team of experienced KEMRON professionals in conducting in-depth multi-day RCRA audits at two major manufacturing facilities. Working in conjunction with facility personnel and company environmental personnel from other locations, as well as internal and/or outside Legal Counsel (depending upon the Site), Ms. Rochotte led the team's development of audit checklists and procedures, and was responsible for assembling all findings into a confidential document for submittal to Counsel under audit privilege. All findings were supported by applicable regulatory citations and were accompanied by specific recommendations to address findings. KEMRON was selected to assist one of the facilities in addressing findings to ensure complete compliance and conformance with applicable regulations and corporate policies and procedures. Audits have been conducted in five states and three USEPA Regions, and have included SPCC, UIC, and waste regulatory audit protocols.

Senior Project Manager: Radford Army Ammunition Plant, Radford, VA. **Jul 2010/Sep 2015.** As the project manager, Ms. Rochotte managed the implementation of RCRA Corrective Measures at two solid waste management units (SWMUs) at RFAAP. The project includes development of Corrective Measures Work Plans for the two SWMUs, with impacted media including soil, ground water and surface water. The facility, an active propellant manufacturing site, is located in an area of karst geology and in a sensitive surface water area adjacent to the New River. Corrective Measures for a former landfill SWMU include installation of monitoring wells, landfill cap repair and maintenance, storm water runoff improvement design, and planning and conduct of long term maintenance. The second SWMU scope included excavation and site restoration of a former acid waste treatment area; this site was addressed through implementation of Interim Measures to unrestricted future use standards within 8 months of receipt of notice to proceed, including the timeframes necessary for all client and regulatory reviews.

The landfill Interim Measures were completed on an expedited basis following regulatory approval of the work plan. Both IMs were completed in conformance with the project documents; IM completion reports for both sites were approved by regulatory personnel with no or minimal comments. The landfill long term monitoring phase is on-going, with an aggressive ramp down and exit strategy in place. Ms. Rochotte is responsible for all aspects of the project including development of all plans, regulatory interaction and negotiation, assignment and management of the entire project team, maintaining an aggressive project schedule and

conducting regular reporting to the client, providing information to the public via the established Restoration Advisory Board and additional public meetings as necessary. Now in its fourth year of long term monitoring (LTM), all LTM reports have been approved by USEPA and VDEQ without comments. Each LTM report includes a monitoring optimization review. Under Ms. Rochotte's direction, optimization efforts have resulted in elimination of the vast majority of monitoring compounds. A RCRA remedy review is scheduled to be completed in 2015 and is anticipated to result in a recommendation for discontinuation of groundwater monitoring, with continued maintenance of Land Use Controls (LUC) and annual inspections to document LUC effectiveness.

Senior Project Manager: AK Steel Land Ban Petition Renewal, Middletown, OH. **August 2015/April 2017.** Ms. Rochotte was selected to lead a team of scientists and engineers in preparation of the application to renew the facility's RCRA Land Ban Exemption Petition for two Class I hazardous waste injection wells. Ms. Rochotte planned and led a project kick-off and planning meeting with the client and USEPA to review the project schedule and requirements for the final deliverable. The two Class I injection wells are used to dispose of Spent Pickle Liquor from steel manufacturing. The documents were prepared on schedule and on budget, and were approved by the client with minimal questions and edits. Ms. Rochotte also is leading the same project team in responding to any regulatory comments as the USEPA Region 5 review of the submittals remains in progress.

Senior Project Manager: AK Steel Rockport Works SPCC Plan Development: **Jun 2008/November 2015.** Responsible for review and update of Spill Prevention Control and Countermeasure (SPCC) Plan for this steel manufacturing facility located in Indiana. The project includes custom-developed owner/operator SPCC inspection forms for oil containers and oil-filled operational equipment, site-specific schedules for inspections and integrity testing as appropriate by container, and development of a complete inventory of SPCC regulated containers for the entire facility. Additionally, training materials will be evaluated to determine their adequacy in addressing regulatory standards for training of oil handling personnel at the facility. Training recommendations will be provided. Ms. Rochotte is leading a team of KEMRON personnel in this project, including the KEMRON project Professional Engineer, to update all plan elements and ensure SPCC regulatory requirements are met while facility regulatory burden is minimized to the fullest extent possible. Ms. Rochotte has managed subsequent SPCC Plan updates, and coordinates with assigned Professional Engineers to provide on-going SPCC regulatory support to the facility.

Project Scientist: SPCC Plan Development, Miba Manufacturing, McConnelsville, OH. **Sep 2010**. Ms. Rochotte was responsible for conduct of Spill Prevention Control and Countermeasure (SPCC) evaluation of two separate facilities that are located on adjoining properties, and development of SPCC plans for both sites. The project included development of SPCC regulated inventories for each facility, identification of any corrective actions necessary for the facilities to achieve compliance, development of site-specific procedures for oil handling and management related to SPCC standards, and providing comprehensive SPCC Plans for implementation by each facility. The plans were being developed to ensure all applicable regulatory requirements are met, while also incorporating regulatory relief incorporated in SPCC rule updates are implemented to the fullest extent possible to provide long term cost savings to the facilities.

Senior Project Manager: AK Steel Ashland Works SPCC Plan Development and FRP Evaluation: **June 2008/October 2015**. Responsible for review and update of Spill Prevention Control and Countermeasure (SPCC) Plan for this steel manufacturing facility located in Kentucky. This project included a facility evaluation regarding Facility Response Planning (FRP) regulatory standards. KEMRON evaluated the facility and prepared documentation to submit to the US Coast Guard and US EPA to document that FRP requirements are no longer applicable to the Ashland Works and document closure of the facility areas that formerly were subject to FRP standards. For each of the two physically separated facilities that comprise the Ashland Works, KEMRON completed the following: develop a comprehensive SPCC inventory; develop compliant and accurate SPCC Plans; custom-develop owner/operator SPCC inspection forms for oil bulk storage containers and oil-filled equipment; and prepare site-specific schedules for inspections and integrity

testing as appropriate by container. Additionally, current training materials were evaluated and recommendations provided regarding a training program to address regulatory standards for training of oil handling personnel at the facility. Ms. Rochotte led a team of KEMRON personnel in this project, including a KEMRON project Professional Engineer, to update all plan elements and ensure SPCC regulatory requirements are met while facility regulatory burden is minimized to the fullest extent possible. The initial SPCC Plan work was completed in 2009, and additional environmental support to the client continued after that time to ensure Plan revisions and updates, as well as in-plant procedures and protocols, were maintained in compliance with all regulatory requirements.

Senior Geologist/Project QA Officer: Red River Army Depot: **Jun 2005/Oct 2010.** Ms. Rochotte is the project QA Officer for the Red River Army Depot project, being performed under a Guaranteed Fixed Price contract, issued through USACE, and being conducted in accordance with the TCEQ's Risk Reduction Program (TRRP). She also provides regulatory interpretation and geologic support to the project. She prepared the Leaking Petroleum Storage Tank (LPST) site closure request documentation for the RRAD Building 333 former LPST site. The client approved the document with minimal comments on the draft. Upon submittal to TCEQ, the closure request received an immediate reduction in site monitoring frequency requirements and subsequent final review and approval of site closure. In her role as QA Officer, she is responsible for ensuring that data quality objectives are achieved for all environmental sampling and analysis conducted. This includes soil, sediment and groundwater data from multiple events spanning numerous years. She oversees laboratory analytical and field data reviews to ensure all environmental data are complete, accurate, and valid, and provides documentation of data quality for project documents and files as required by standard KEMRON QA/QC protocol and project-specific standards.

Senior Project Manager, Fort George G. Meade Performance Based Contract: **Jun 2007/May 2013.** Ms. Rochotte served as the Project Manager for this performance based remediation contract that includes five separate Operable Units: OU-1, Trap and Skeet Range; OU-2, Former Troop Housing Boiler Plant; OU-3, Nike Site; OU-4, Southeast Corner Groundwater Sites; and OU-5, DRMO. KEMRON was responsible for completion of delineating contaminants in all media, and addressing the contaminants of concern to meet contract objectives for the OUs. Media requiring remedial investigation at Ft. Meade included soil, surface water, ground water, and air. Ms. Rochotte was responsible for managing development of all site documents, including Field Sampling Plans, Quality Assurance Project Plans, Health and Safety Plans, Remedial Investigation Reports, Feasibility Studies, Proposed Plans and Records of Decision. The project included public involvement with an active Restoration Advisory Board. Additionally, Ms. Rochotte prepared regular reports on project update and leads team meetings with key client points of contact to communicate status and any potential issues regarding scope and schedule. Based on changes in scope of the work determined necessary by the client and regulators, the project concluded in 2013. KEMRON completed closure of one site with no further action required, and achieved all performance objectives established by the client for all other sites.

Senior Project Manager, AFIT, Environmental Training: **Jul 2004/Nov 2007.** Ms. Rochotte managed two separate contracts with AFIT that included development and presentation of environmental training. The training modules are included in the AFIT Introduction to Environmental Restoration Program, Environmental Restoration Program Management, and Water Quality Management courses. Topics presented included treatment technologies and regulatory negotiation in the Environmental Restoration courses, and water testing, monitoring and reporting for the Water Quality course. The projects included development of original training materials, including PowerPoint slides, exercises, handouts and reference lists, and presentation of the course materials at AFIT. Ms. Rochotte has been a presenter at AFIT since 2003, with requests from instructors to return each year based on consistently high student feedback on the content and quality of her presentations.

Senior Project Manager: Class I UIC, AK Steel, Middletown Works**: June 1998 to On-going**. Under contract to AK Steel, Ms. Rochotte serves as a regulatory advisor and provides in-plant support to ensure compliance with this facility's permitted hazardous waste injection wells. She has served as a facility

representative during compliance inspections and on-site testing. She has performed quality assurance and regulatory/technical adequacy reviews of the No Migration Petition renewal prepared by another consultant for the AK Steel Class I UIC wells. Preparing responses to regulatory correspondence, she advises AK Steel of potential US EPA and Ohio EPA deficiencies and comments regarding the injection well program. Ms. Rochotte has facilitated meetings with USEPA Region 5 and Ohio EPA personnel in multiple regulatory discussions, and has been a key point of contact regarding scheduling, resolution of the Region's comments, and advising AK Steel regarding regulatory standards and requirements. She provides on-going regulatory expertise and advice to AK Steel regarding operations and maintenance of the two hazardous waste disposal wells. She works closely with AK Steel environmental personnel to timely address any compliance issues, identifying innovative and cost-effective and permanent solutions to compliance concerns. Ms. Rochotte develops written documentation in the form of responses to regulatory comments on submittals, responses to any alleged regulatory violations, plans to comply with regulatory standards, and tools (such as forms, spreadsheets and other customized electronic documents) for the facility to track and implement solutions to environmental concerns. She maintains close contact with the client to ensure KEMRON's work is completed within schedule needs mandated by facility-specific deadlines and manufacturing needs. Ms. Rochotte also leads a team of personnel responsible for monthly UIC well operating data review and evaluation, from which the state-required monthly operating reports are prepared and submitted.

Senior Project Manager: SPCC Plan Development, AK Steel, Middletown Works: **March 2006/On-going.** Responsible for review and, in conjunction with the assigned Professional Engineer, update of Spill Prevention Control and Countermeasure (SPCC) Plan for this approximately 3,000 acre steel manufacturing facility. Updated Plan included custom-developed owner/operator SPCC inspection forms for oil containers and oil-filled operational equipment, site-specific schedules for inspections and integrity testing as appropriate by container, and development of a complete inventory spreadsheet of SPCC regulated containers for facility. The 2006 SPCC Plan text was written as a new document with significant updates and changes from previous AK Steel versions, in conjunction with and as reviewed by the project Professional Engineer, to update all plan elements and ensure SPCC regulatory requirements are met while facility regulatory burden is minimized where possible. On-going periodic SPCC regulatory support and Plan review and revisions continue to be managed by Ms. Rochotte.

Senior Project Manager: USAEC Remediation, Marion Local Training Area, Marion, Ohio: **May 2004/May 2008**. Ms. Rochotte was the Project Manager for this site, which was included in a KEMRON USARC Guaranteed Fixed Price contract, issued through USAEC (Contract #W911SO-04-F0017). Ms. Rochotte authored or managed development of all key CERCLA documents for the 127 acre site, including the Quality Assurance Project Plan, Community Involvement Plan, Sampling and Analysis Plans, Engineering Evaluation and Cost Analysis (EE/CA), Action Memorandum, Removal Action Work Plan, Storm Water Pollution Prevention Work Plan, ecological and human health Risk Assessment Workplans, and Traffic Control Plan. She directly interacts with the regulators involved in the project, establishing technical criteria and approach, defining ARARs, and negotiating plan conditions and requirements. Ms. Rochotte develops and presents project updates to the public. She was responsible for planning and conducting a public availability session and related community relations during a CERCLA Non-Time-Critical Removal Action. She coordinated substantive permit element development for applicable US Army Corps of Engineers nationwide permit submissions and wetland permitting. Hazardous waste management and on-site treatment were completed during the removal action to achieve Land Disposal Restriction requirements and standards. The state regulators have concurred with documents developed with minimal or no comments, allowing the project to remain on an expedited schedule.

Senior Project Manager: USAEC Remediation, King Mills USARC, Ohio: **June 2004/May 2007.** Ms. Rochotte was the Project Manager for this site, which is included in a KEMRON USARC Guaranteed Fixed Price contract, issued through USAEC (Contract #W911SO-04-F0017). Ms. Rochotte authored or managed development of all key CERCLA documents for this active Army Reserve installation, including the Quality Assurance Project Plan, Community Involvement Plan, Sampling and Analysis Plan, Site Investigation Report, Focused Feasibility Study, Proposed Plan, Decision Document, Remedial Design/Remedial Action Work Plan

and Operations and Maintenance Plan. The Proposed Plan and Decision Document received state regulatory concurrence without comment. The selected alternative was a presumptive remedy, dual phase high vacuum extraction, to address TCE contamination in groundwater at the site. The entire project was completed on an expedited schedule, such that the system installation was completed nine months prior to the contractual deadline and within budget.

Senior Project Manager: USAEC, Silver Springs USARC, Wisconsin: **June 2004/August 2006.** Ms. Rochotte was the Project Manager for this Army Reserves site, included in the KEMRON USARC Guaranteed Fixed Price contract issued through USAEC (Contract #W911SO-04-F0017). The project included compilation and review of all existing environmental data and development of conclusive documentation to demonstrate that no CERCLA action was required for the site, with subsequent achievement of regulatory closure under CERCLA. Site groundwater monitoring well sample analyses had demonstrated some exceedances of certain Wisconsin Department of Natural Resources (WDNR) regulatory standards for VOCs. The VOCs were believed to be the result of an off-site source; however, the WDNR required the USARC to monitor the groundwater on the site to evaluate contaminants detected. KEMRON retrieved historical records from historic Army Reserves and State of Wisconsin files for both the subject site and adjacent parcels that could impact groundwater conditions on the Silver Spring parcel. KEMRON compiled the data, producing summary data tables and trend analyses, and comparing the data to relevant WDNR groundwater regulatory standards. Upgradient groundwater data also were evaluated and compared to detected analytes on the Silver Springs USARC. KEMRON prepared a Technical Memorandum that provided a comprehensive regulatory history documentation and data tables and graphs. KEMRON concluded that the data do not support that a CERCLA release had occurred on-site, but that site groundwater contamination is from an unknown, off-site source. With the conclusion of the PA/SI phase, KEMRON determined that the Army's obligations under CERCLA had been fulfilled and that the record illustrates that the Army is not a PRP for the detected contaminants in groundwater at the Milwaukee USARC parcel. KEMRON participated in teleconferences with WDNR to discuss the findings of the data Technical Memorandum. The State concurred that no further action under CERCLA was required. The client's desired CERCLA site closure was achieved on budget and in advance of the contractual deadline.

Senior Geologist/Project QA Officer: USAEC, Fort McCoy, WI**: June 2004/August 2006.** Ms. Rochotte was responsible for development of the Sampling and Analysis Plan (SAP) for groundwater investigations at Fort McCoy, WI, and a Soil Sampling and Analysis Plan for confirmatory soil sampling at the Fort McCoy Former Fire Training Burn Pit #1, a RCRA Corrective Action site. USEPA, Region 5, the lead regulatory agency, concurred with both SAPs with minimal comments. Ms. Rochotte also oversees data validation tasks and ensures that data quality objectives have been met and environmental data for the project are usable for their intended purpose.

Project Manager, Eaker Air Force Base: **May 2006/October 2008**. KEMRON teamed with others to provide project management, O&M, sampling, and analysis of multiple remediation areas at the Eaker Air Force Base. Duties involved coordination between field sampling crew and the laboratory, summarizing and interpreting analytical data and producing portions of the final reports to the agency.

Senior Project Manager, US EPA, Enforcement and Permitting: **May 2004/Jan 2011**. Ms. Rochotte served as an expert UIC consultant and witness to a US EPA Regional office, providing technical and regulatory support to Regional Counsel, Regional UIC staff and the Department of Justice. Ms. Rochotte drafted an area UIC permit for the Region's use in addressing the UIC issues that exist in this sensitive case, has participated in regulatory negotiations with the Permittee, interfaced with the State Primacy Agency, and developed technical and regulatory arguments and positions for the Region. She served as the federal government's expert witness in case settlement. The case involved an entity with 9,000 regulated units, with compliance based on water programmatic areas. She reviewed and provided substantive elements for revision of the defendant's monitoring plans, environmental management structure and documentation, identified chemicals of concern, led field inspections with Regional

personnel, and developed concepts for data management, reporting and evaluation.

Senior Project Manager, Morgan County Community Involvement Corporation, Phase I ESA: **2002**. Ms. Rochotte was the project manager for this Phase I Environmental Site Assessment, completed to ASTM standards, for an Ohio facility with historic soil and groundwater contamination. The project was completed by summarizing the regulatory history of the parcel and including key milestones that documented site resolution of historic releases that meet the definition of a Recognized Environmental Condition. The Phase I ESA was completed on an expedited schedule and within budget.

Senior Project Manager/Senior Geologist: Consolidation Coal Company: **Feb 2005/Aug 2006.** Ms. Rochotte was responsible for development and submittal of Class V Underground Injection Control (UIC) Class V permit to drill and permit to operate applications for a total of five wells at two Consolidation Coal facilities in southeastern Ohio. In addition to development of the applications, the project included regulatory interpretation, meetings with and presentations to state regulators, site visits to assess conditions and make recommendations, design and treatment recommendations, development of geologic cross-sections and interpretations, and development of injected waste, mine pool and/or groundwater monitoring plans for compliance confirmation.

Senior Geologist/Senior Project Manager: Voluntary Reporting Form Development and Implementation, Ground Water Protection Council: **March 2005/Oct 2005**. Ms. Rochotte was responsible for development and implementation of a voluntary reporting form that the Ground Water Protection Council (GWPC) will use to the status of state regulation of impacts of storm water discharges to ground water. The voluntary reporting form was provided to state storm water, Underground Injection Control, and other regulators via the GWPC website to gather information on how states were coordinating on and managing surface and ground water to document and regulate storm water and its impacts. The results of the responses received were summarized, and suggestions were provided to the Ground Water Protection Council regarding research and/or pilot studies to help fill information gaps. The form was designed to be implemented electronically via the Ground Water Protection Council's website.

Senior Geologist, US Army, Fort Sheridan BRAC: **Aug 2006/Aug 2008**. Ms. Rochotte provided technical and regulatory support for this multi-year project. She is responsible for managing and/or performing quality assurance reviews of major project documents. She has authored portions of multiple key site documents including proposed plans, decision documents and design documents. Ms. Rochotte has provided on-going regulatory interpretation and support, and geologic support for the project. She was individually responsible for the development of project Waste Management and Minimization Plan, Quality Assurance Project Plan, Sampling and Analysis Plan, and Remedial Action Work Plan for the Action Memorandum Sites. She has been a key link in interfacing with the laboratory regarding analytical procedures and laboratory reports, and has conducted the quality assurance/quality control review of laboratory data packages to evaluate adequacy compared to data quality objectives established in the QAPP. Ms. Rochotte also has been the primary contact for the third-party independent data validator, and has provided all necessary support and information to the Army's data reviewer for all environmental project samples. She provides support at BCT and RAB meetings, and advises other project personnel regarding significant regulatory issues. Ms. Rochotte continues to evaluate project data and procedures against standards established in the QAPP, SAP and other project documents, initiate corrective action as necessary, and update documents through revisions and addenda based on site-specific developments and project needs.

Senior Scientist: Drinking Water SAV, URS: **Nov 2004**. Ms. Rochotte led a three person team in performance of a Staff Assistance Evaluation (SAV). The SAV was an in-depth four-day review of the Travis AFB's Safe Drinking Water Program against applicable State of California, US EPA, and US Air Force requirements. As team leader, Ms. Rochotte was responsible for directing members of the team, and performing field, document and regulatory reviews. The US Air Force ECAMP protocol checklists were used as the basis of inspections of the installation's drinking water facilities, systems and

management. The team prepared reports of findings noted during the investigation, validating findings against Air Force/DoD policy and applicable state and federal requirements. As part of the SAV, Ms. Rochotte reviewed the findings of recent ECAMPs regarding the Travis AFB drinking water system; documentation of the public water supply system and equipment; system reports to and correspondence with State regulatory personnel; maps of the wells and distribution system relative to the base; monitoring data and reports; reports and supporting documentation regarding the base's cross-connection and backflow prevention program; installation disaster response plan; installation recycled water system information and data; valve maintenance and dead-end flushing program schedules and documentation; calibration records; tank maintenance, water treatment and disinfection, tracking of service connections, routine in-house system inspections, alarm tests and other operational and regulatory records; certification and training records for all drinking water system operators; correspondence and supporting documentation related to drinking water enforcement actions and associated responses; and, engineering diagrams and system design drawings. She led the team in field inspections of the drinking water system, which included three public water supply wells and an off-site surface water system. Ms. Rochotte conducted daily cross-talk briefings and meetings with CEV and JAG representatives at the close of each day's inspection activities. Ms. Rochotte maintained detailed project notes throughout the SAV. She presented project findings and recommendations to the BCE and BEE, and their respective staffs, at the close of the SAV. The written findings, recommendations and notes were presented to the BCE at the close of the debriefing.

Senior Project Manager, UIC and Wastewater Study, USAFSPC: **June 2004/Aug 2004**. Ms. Rochotte served as the KEMRON lead manager, under subcontract to Ecology and Environment, to develop internal AFSPC auditing tools and expert oversight to field staff involved in conducting a Class V UIC and wastewater study at Patrick Air Force Base and Cape Canaveral Air Force Base. Ms. Rochotte developed a customized inspection form for use by field personnel, and coordinated with AFSPC staff and Ecology and Environment senior managers to strategize field methods to be used to identify potential Class V and wastewater compliance issues. She served as the senior contact for field personnel throughout the field phase of the project, advising and directing staff as UIC-related issues arose. Ms. Rochotte assessed site -specific conditions to identify potential environmental compliance and liability issues, and presenting recommendations for the USAFSPC to address the issues.

Senior Geologist, SDWA Decision Tools Development: USAFSPC: **Apr 2004/Aug 2005**. Ms. Rochotte developed a Class V UIC well identification and inventory tool for AFSPC. The tool is a user-friendly spreadsheet, with accompanying program information and instructions for completing the identification and inventory tool. During this project, Ms. Rochotte also assisted in development of decision trees for applicability of SDWA regulations for AFSPC, including the radionuclides and disinfection byproducts rules.

Senior Project Manager, Ground Water Monitoring Well Sampling, Analysis and Evaluation, Private Client: **June 1998/Dec 2006**. Ms. Rochotte managed the annual sampling, analysis and data evaluation of a deep monitoring well, that is completed in a zone approximately 4,000 feet below ground surface. Laboratory analytical results and field methodologies were presented in a report. Based on Ms. Rochotte's recommendations, the project was expanded to include additional data evaluation to assist the client in determining future management of the monitoring well. The data evaluation included a comprehensive quality assurance review of past data, compilation of the full data set, and statistical evaluation of specific analytical results for key compounds that will assist in determining future monitoring strategies.

Senior Project Manager, Landrum & Brown, Phase I Environmental Due Diligence Audits (EDDA): **Sep 2001**. Ms. Rochotte managed this project that included a comprehensive Phase I Environmental Due Diligence Audit, conducted per FAA guidance, at a site adjacent to the Toledo International Airport. The findings and conclusions of the report were fully acceptable to the FAA and L&B, and will be used to determine additional steps necessary if the property is to be acquired by the airport for future use.

Project Manager, Confidential Client, Environmental Compliance Audits: **June 2000**. Ms. Rochotte conducted environmental compliance audit at three separate facilities for a confidential client. Project included development and implementation of customized auditing tools, site evaluations, document reviews and preparation of report of findings, accompanied by recommendations to correct identified issues. The audit encompassed CWA, SDWA, RCRA, SPCC, UST and air issues.

Senior Geologist, US AFSPC, Opportunity Assessment, Cape Cod Air Force Station: **June 2004**. Ms. Rochotte led a team of KEMRON professionals in conducting an opportunity assessment of the alternatives for discharge of cooling tower wastewater at the Cape Cod Air Force Station, in follow-up to an ECAMP assessment. Phase I of this project included conducting a compliance review of current disposal practices and identification of potential alternatives. Phase II included a thorough analysis of a potential treatment options and other alternatives for managing the blow-down in compliance with applicable federal, state and local requirements and guidance. The project included sampling and analysis, comprehensive regulatory requirements review and documentation, evaluation of potential alternatives, analysis of each alternative=s potential environmental liability, and recommendations for disposal of the blow-down.

Senior Project Manager, Confidential Client, Phase I ESA, Limited Phase II ESA, and Abatement / Removal: **Jun 2006/Oct 2006**. In preparation for demolition of a large facility, the client contracted with KEMRON for a Phase I environmental site assessment and limited Phase II site assessment. The Phase I indicated multiple past site uses that merited investigation in a targeted Phase II ESA. The Phase II ESA included an asbestos survey of the building, which was approximately 45,000 ft^2 in size, as well as planning and installing soil borings to analyze for chemicals of concern, including petroleum products, metals, semi-volatile and volatile organic compounds, and glycols based on historic property use.

Additionally, numerous environmental management issues were identified, including the presence of PCB-containing transformers and other electrical equipment, paint wastes, fluorescent light tubes, mercury-containing switches and equipment, wastewater from site grease traps, used oil and regulated refrigerants, all of which required removal from the premises prior to building demolition. KEMRON was contracted to abate all asbestos containing materials, and remove and manage all wastes and other regulated substances from the structure to allow demolition to proceed on schedule. KEMRON was responsible for acquiring all necessary permits and authorizations for site work.

Senior Project Manager, US EPA, Class V Regulatory Updates: **Jun 1998/Sep 2000**. Under subcontract to The Cadmus Group, Inc., assist US EPA in development of comprehensive regulatory tracking database for use by Regions and Headquarters in monitoring updates to primacy Underground Injection Control Programs. Responsible for identifying key elements of the database, and providing expertise on regulatory development processes for database design. Develop presentation materials for EPA to introduce Regions to database. Provide technical expertise in reviewing state regulatory packages for technical adequacy and completeness. In addition, facilitate national UIC Class V workgroup meetings, coordinate with Regions and provide technical support to US EPA in regulatory development.

Senior Project Manager, USAFSPC, Environmental Training: **Jun 2004/Sep 2004**. Ms. Rochotte developed original training materials regarding federal Clean Water Act and Safe Drinking Water Act regulations for the US Air Force. The training was designed to provide regulatory interpretation and compliance assistance information to Air Force personnel, to ensure US installations attain and maintain compliance with current regulations, and are aware of currently proposed Federal Drinking Water program requirements.

Senior Project Manager, Ground Water Protection Council, National UIC Educational Brochure**: Sep 2008/Jun 2009**. Responsible for development of national Underground Injection Control (UIC) educational brochure for distribution by the Ground Water Protection Council. The brochure includes

graphics and text that provide the basis of the national UIC Program, its interrelationships with other regulatory programs, and explain the requirements for and issues related to the various UIC well classes.

Senior Geologist: Private Client, Ground Water Monitoring, Waste Minimization and Waste Analysis Plan Review and Revisions: **Sep 1998/Oct 1999**. The project included the modifications to a ground water monitoring plan, waste minimization and treatment plan and a waste analysis plan for a major steel manufacturing facility. Ms. Rochotte also is providing regulatory interpretation services to the client on an on-going basis to assist the facility in responding to inquiries from regulatory entities and advise the client on appropriate steps to ensure regulatory compliance.

Senior Project Manager, US EPA, National Drinking Water Academy: **Jun 1998/Sep 2003**. Author and presenter for US EPA's Drinking Water Academy, designed to present courses on Drinking Water, Source Water Protection and Underground Injection Control technical and programmatic topics to Federal and State regulators. Courses authored and presented include Overview of the Safe Drinking Water Act, Introduction to the UIC Program, UIC Permitting, Introduction to EPA's Drinking Water Source Protection Programs, and Managing Shallow Class V Injection Wells. As an author and presenter, Ms. Rochotte is responsible for comprehensive course content development, including text and PowerPoint presentation, development of exercises and graphics, QA/QC and presentation of all course materials. Presentations may be accomplished in either classic classroom style or by Internet Broadcasts.

Senior Project Manager, Landrum & Brown, Phase I ESA using FAA EDDA Methodology**: Jun 2001/Aug 2001**. Dayton International Airport. This project included a comprehensive site assessment of seven existing rental car facilities and a proposed rental car relocation site, encompassing approximately fifty acres. Environmental issues of concern included USTs and soil and groundwater contamination associated with past UST system releases and hazardous materials storage, and potential impacts to planned future property use based on existing conditions.

Senior Project Manager, Landrum & Brown, Phase I EDDA: **Aug 2001/Sep 2001**. Dayton International Airport. Implementing FAA Order 1050.19, this project included review of two properties totally over 100 acres. Issues identified and examined included potential impacts from firing range activities, reported past releases to surface water and groundwater, and the presence of operating rail spurs on the properties, as well as hazardous materials storage. Environmental areas of concern were identified, and Phase II EDDA recommendations were included based on the FAA Order=s requirements.

Senior Project Manager, Landrum & Brown, Phase II EDDA: **Sep 2001/Nov 2001**. Conducted at Dayton International Airport in follow-up to KEMRON's completion of a Phase I EDDA at an adjacent trapshooting range, the project included development and implementation of a Sampling and Analysis Plan (SAP) prepared by KEMRON. The SAP was designed and implemented to evaluate existing conditions in soil at the site, to determine the potential environmental impacts of trapshooting on the premises, including metals and semi-volatile compounds.

The sampling and analyses were designed to evaluate soil impacts at depths included near-surface, six inches, 24 inches and 36 inches below grade, phasing in the analyses based on results from shallower samples. Using the analytical results, KEMRON prepared maps to illustrate identified environmental impacts, summarized actions that may be taken to address contaminated areas, and provided budgetary cost estimates for recommended alternatives.

Senior Project Manager, US EPA, Evaluation of Options for Class V UIC Wells: **Jun 1998/Sep 1999**. This project included researching federal and state requirements for remediation of soil and groundwater in support of US EPA's evaluation of appropriate means of managing and regulating Class V UIC wells. The project was focused on existing federal requirements relevant and/or applicable to Class V industrial disposal wells and prohibited Class IV UIC wells. The deliverable included a discussion of existing Federal requirements, guidance and policy under, SDWA, RCRA and CERCLA, and various state UST,

groundwater, and voluntary remediation (Brownfields) programs, and their relevance and applicability to the UIC wells in question. Tables were prepared and included in the report to compare the various programs' numeric standards by medium (groundwater and soil), and summaries of each program reviewed were provided in an appendix to the report. KEMRON also was tasked to peer review multiple documents prepared by other contractors regarding the Class V and Class IV federal UIC program. The project was conducted on a compressed time schedule; the deliverables were completed on time and within budget.

UIC Regulations for Class V Wells, US EPA, Region 5, Class V UIC Workshop for Local Officials: **Dec 1998/Oct 1999**. Ms. Rochotte developed and presented training course for Region 5 Direct Implementation states and local officials regarding the historic Class V program, existing regulations and changes made through the December 1999 Class V UIC rule. Responsible for manual preparation, presentations, design and implementation of course evaluation, and summarizing notes of significant questions with corresponding EPA responses.

Senior Geologist, US EPA: *Comparison of Alternatives for Discharging Municipal Wastewater in Florida*. **Jun 1999/Dec 2000**. As a subcontractor to Horsley & Witten, this project involved collection, analysis and summarization of data for the St. Petersburg area for inclusion in the *Report on the Comparison of Alternatives for Discharging Municipal Wastewater in Florida*, prepared for US EPA, Office of Ground Water and Drinking Water. Ms. Rochotte was the senior geologist involved in coordination with the Florida Department of Environmental Protection for selection of critical UIC and geologic documents to be analyzed and used in the project. She also reviewed and synthesized all available data regarding the St. Petersburg area as it related to the study, including the city=s Class I UIC wells= construction, operation and maintenance data, reuse system and UIC effluent analytical data, ground water monitoring data, and geologic/hydrogeologic information.

Senior Project Manager, US EPA: **Oct 1998/Oct 2001**. Authored the *State Implementation Guidance for the Revisions to the UIC Regulations for Class V Injection Wells*, including PowerPoint training course and presentation of the training nationally to US EPA Regional offices. Materials included text, graphics, fact sheets, frequently asked questions sheets, summary tables and flow charts, new forms, a regulatory cross-walk, and question/issue summaries for each training. Presented the training course in multiple US EPA Regions, where Regional, State and Tribal staff attended workshops on implementation of Class V Underground Injection Control Regulations.

Senior Project Manager, Landrum & Brown: **Jun 1998/Aug 2000**. Phase I and Phase II FAA Environmental Due Diligence Audits (EDDAs), Cleveland Hopkins International Airport. Implementing FAA Order 1050.19, the project entailed examination of over 600 acres of property to evaluate potential environmental contaminants of concern, and a site investigation of identified areas of concern. Issues addressed through the on the properties investigated included USTs, solid waste, hazardous waste, surface water and other soil issues.

Senior Project Manager, Private Client: **Jun 2000/Sep 2000**. Developed and presented Environmental Awareness Training for auditing and operations personnel at confidential major manufacturing facility. The training included information regarding general and site-specific regulatory requirements under the air, hazardous waste, surface water, solid waste, and spill prevention environmental programs. The custom-designed training included site-specific examples of actions that may impact environmental compliance. Designed as a PowerPoint presentation, handouts also were designed and provided to participants.

Senior Project Manager, Continental Airlines: **Nov 2001/Feb 2002**. Baseline Assessment, John F. Kennedy International Airport. This project entailed development of a site-wide assessment of existing conditions to provide a basis for the client's lease negotiations regarding environmental liability. A site sampling plan was developed and carried out, including installation of soil borings, ground water

monitoring wells, and an asbestos survey. The investigation included volatile organic and semi-volatile organic chemicals, pesticides, herbicides, polychlorinated biphenyls and RCRA metals in soil and/or ground water samples. A ground water potentiometric surface map was constructed for the site, and a report was developed summarizing all findings. Recommendations were provided to the client regarding potential liabilities, based upon a review of applicable State and Federal regulations, policy and guidance. The project also included collection of geotechnical data for construction of a new facility on site, in accordance with specifications provided by the client=s architect.

Senior Project Manager, US EPA: Dec **1998/Sep 1999**. Assisted US EPA in finalization of Class V Underground Injection Control National Study documents, by reviewing technical and regulatory summaries for accuracy, completeness and effectiveness.

Project Manager, ODOT: **July 1998/Mar 1999**. Two separate geophysical field investigations were conducted for ODOT. The first investigation was developed and implemented to evaluate the potential presence of human gravesites in a right of way taking. The second was designed to identify the locations and implement removal of underground storage tanks at an abandoned facility.

EMPLOYMENT HISTORY

Senior Project Manager/Project Geologist, KEMRON Environmental Services, Inc., Marietta, OH, 05/1998 – Present

Geology Program Manager, Ohio Environmental Protection Agency, Division of Drinking and Ground Waters, Columbus, OH, 10/1991 – 05/1998

Geologist 3, Ohio Environmental Protection Agency, Division of Drinking and Ground Waters, Columbus, OH, 03/1990 – 09/1991

Graduate Teaching Assistant, Miami University, Oxford, Ohio. 08/1988 to 12/1989

Geophysicist, United States Offshore Division, Pennzoil Company, Houston, TX, 07/1981 – 02/1988

Previous Work Experience

October 1991 to May 1998--Geology Program Manager, Ohio Environmental Protection Agency, Division of Drinking and Ground Waters, Columbus, Ohio. Managed statewide Underground Injection Control (UIC) Program for Class I, IV and V injection wells. Instrumental in development of statute. Responsible for developing state regulations, and ensuring consistency with all applicable portions of the Federal and State equivalents of the Safe Drinking Water Act (SDWA) and Resource Conservation and Recovery Act (RCRA). Coordinated Program efforts with and developed reports to U.S. EPA, Region 5, to illustrate Program performance. Individually responsible for establishing program priorities, strategic planning, statute and rule interpretation, policy, guidance and procedure development. Oversaw all permitting, enforcement, compliance evaluation and technical assistance activities of staff. Coordinated multi-media efforts with appropriate State and/or Federal CERCLA, RCRA, CWA and SDWA programs. Oversaw integration of pollution prevention activities into program activities; reviewed facility-wide waste minimization and pollution prevention plans for adequacy. Ensured staff development; developed performance expectations and monitored performance. Representative to Federal regulatory development workgroups comprised of representatives from all US EPA Regions and Headquarters and numerous States, regarding regulatory development, assessment of regulatory needs, and national reporting requirements. Key representative at public meetings and hearings, and at symposia and conferences. Agency appointee to Ohio Seismic Hazards Advisory Board from 1991 to 1998, evaluating seismic activity risk and recommending actions to the Governor. Served on Agency Quality Services

through Partnership (QStP, the State's TQM program) Steering Committee for three years, including extensive training and experience in facilitation, communication and team building. Trained and experienced in public involvement and media relations. Presented training to internal and external customers on QStP, Class I, IV and V injection well requirements and provided extensive compliance assistance.

March 1990 to September 1991--Geologist 3, Ohio Environmental Protection Agency, Division of Ground Water, Columbus, Ohio. Responsible for comprehensive evaluation, review, control, and permitting of UIC wells regulated by the Ohio EPA under the SDWA and RCRA. Reviewed and evaluated permit applications and operating reports.

Evaluated plans, specifications and design, as well as results for: ground water monitoring, seismic monitoring, waste analysis, corrosion monitoring and closure/post-closure. Developed guidance and policy. Conducted site inspections. Independently evaluated and critiqued all UIC seismic related plans and reports submitted to Ohio EPA for completeness and technical adequacy. Developed permit and enforcement actions.

August 1988 through December 1989--Graduate Teaching Assistant, Miami University, Oxford, Ohio. Instructional responsibilities included development and presentation of material to undergraduate geology students in historical geology and paleontology laboratories.

Individually responsible for lesson plan preparation, presentation of lectures, development of laboratory exercises, examinations and conducting field studies.

July 1981 through February 1988--Geophysicist, U.S. Offshore Division, Pennzoil Company, Houston, Texas. Principally responsible for regional and local studies to locate and recommend oil and gas well drilling sites to management. Interpreted data for and directed construction of structural and stratigraphic maps utilizing reflection seismic data and borehole logs. Participated as team member on numerous projects involving multi-disciplinary groups. Developed and coordinated personal computer projects. Prepared and presented both written and oral technical reports to management and partners detailing results of well site studies.

PUBLICATIONS and PRESENTATIONS

Sneen, M. and Rochotte, M.L., Post Remediation and Restoration of Two Small Southwestern Ohio Streams. Society for Freshwater Science (May 2015).

Rochotte, M.L., Battelle "Industrialized Stream Remediation Challenges and Adaptations" (January 2015).

Rochotte, M.L., Ground Water Protection Council: "Storm Water and Ground Water: A Summary of State Regulatory Status" (October 2006).

Rochotte, M.L., Ground Water Protection Council: "Storm Water and Ground Water: Draft Voluntary Reporting Project Results" (September 2005).

Rochotte, M.L., Ground Water Protection Council: "Management of Dioxin-Contaminated Ground Water: Technical and Regulatory Barriers, and Potential Injection Solutions" (September 2004).

Rochotte, M.L., Ground Water Protection Council: "Regulatory Reform in Ohio EPA's Class I UIC Program" (January 1996).

Rochotte, M.L., Ground Water Protection Council: "National Regulatory Reform for the Class I UIC Program" (March 1997).

Rochotte, M.L. and Tucker, O.G., US Air Force Environmental Training Symposium: “Cooling Tower Blowdown Management: Potential Disposal Issues and Alternative Solutions” (March 2005).

Rochotte, M.L. and Tucker, O.G., US Air Force Institute of Technology: “Water Quality Testing, Monitoring and Reporting” (January 2005).

Rochotte, M.L. and Zumbro, M.K., US Air Force Institute of Technology: “Negotiating with Regulators’” (March 2004).

Hodnett, M.L., 1993, Ohio EPA’s Underground Injection Control Program, Facets of Groundwater, Freshwater Foundation.

Renwick, W.H., Boardman, M.R., Hodnett, M.L., and Gao, W., 1989, Total Pollen and Organic Matter Analysis of Cores from Winton Lake, Report to Ohio EPA, Division of Environmental Planning and Management.

Boardman, M.R., Bergstrand, P.M., Colby, N.D., Hodnett, M.L., Lasemi, Z. and Slone, G.B., 1989, Limestone Nodules from the Oregonia and Elk Creek Beds, Cincinnatian Series, Southwestern Ohio, Abstract, Ohio Academy of Sciences.

Abdo Chaber, LRS
Senior Project Manager

Abdo Chaber is a Senior Project Manager for KEMRON's Charleston, West Virginia office. He is a Licensed Remediation Specialist (LRS) in the state of West Virginia. He has over 15 years of experience in environmental consulting and project management. Mr. Chaber has experience in management of large, multi-scope programs and complex projects including work on both a state (West Virginia, Kentucky, Ohio, Pennsylvania, and Georgia) and a federal level. Mr. Chaber's specialties include risk-based closures, environmental site assessments and remediation, due diligence, underground storage tanks, and management of multi-project portfolios.

EDUCATION

BS Biology, Marshall University, 2001
MS Environmental Science, (in progress)
Marshall University, anticipated graduation- 2026

CERTIFICATIONS/AFFILIATIONS

WV Licensed Remediation Specialist #285
Member of the West Virginia Air & Waste Management Association
Member of the West Virginia Monitoring Well Drillers Advisory Board (2015-Present)
40 Hour OSHA Hazardous Waste 29 CFR 1910.120
8-Hour OSHA Refresher Course 29 CFR 1910.120
30-Hour OSHA Construction Course
Level I Antiterrorism Awareness Training
OPSEC Awareness for Military Members, DoD Employees and Contractors
WV Well Driller Certification #WV00474
Excavation Safety for Competent Person Training
Dow Chemical/SC Plant Safety Training (8 Hour)
AutoCAD 2009 Essentials Certification through MountainCAD Corp.

Mr. Chaber has experience with many project aspects, including: assembling, coordinating, and leading project teams; contracting and management of subcontractors; budget monitoring and scope management; liaison with state, federal and local regulatory agencies, and contract laboratories; preparation of bid specifications, work plans, sampling and analysis plans, remedial action plans, risk-based assessment and remediation reports, site assessment reports, and contamination assessments; pilot-scale testing of contaminant delineation innovative remedial technologies; Brownfield site redevelopment; Resource Conservation and Recovery Act (RCRA)/ Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site investigations; Underground Storage Tank (UST) closures; Long Term Monitoring (LTM) plans; hydrogeologic studies; environmental due diligence; waste permitting/compliance; and program development and management. Mr. Chaber has a great working relationship with all West Virginia Department of Protection (WVDEP) Project Managers.

Mr. Chaber has specific experience with risk-based corrective action and remedial evaluation including the use of fate and transport modeling and development of site-specific target levels. Field work includes installation of groundwater monitoring wells, soil and groundwater sampling, RCRA, CERCLA, and leaking underground storage tank (LUST) field investigation, UST removal, and contractor oversight during remediation activities. Mr. Chaber has extensive experience conducting Phase I Environmental Site Assessments (ESA) and Phase II ESAs for various private clients for potential real estate transactions in several states. Mr. Chaber also has experience with remedial testing, pump tests, vacuum extraction tests, and rising head tests.

Mr. Chaber is a member of the West Virginia Monitoring Well Driller's Advisory Board, which meets on an annual basis to discuss regulation, practice, licensing for the installation, maintenance, and abandonment, and documentation of all monitoring wells within the state.

Mr. Chaber has a background in the regulation of the coal mining industry via the West Virginia Department of Environmental Protection. Mr. Chaber has experience with mine permitting, NPDES permitting, compliance reporting, regulatory requirements from start-up to release of mining permits, and state and federal mining regulations.

PROJECT MANAGEMENT SKILLS

- Over 10 years of experience as a manager leading high performance teams.
- Successfully completed numerous multi-scope projects requiring diverse project teams.
- Routinely manage projects requiring innovative and strategic solutions to complex problems.
- Excel at executing the three fundamentals of project management - scope, schedule & budget.
- Responsible and accountable in resource allocation and scope management.

SELECTED PROJECT EXPERIENCE

Project Manager, Bilge Water Tank Cleaning, Norfolk Naval Shipyard (July 2024-Current):
Serve as Project Manager for tank cleaning activities at the Norfolk Naval Shipyard. Activities included waste characterization sampling, and the fluid removal and cleaning of four (4) bilge water and dry-dock wastewater tanks, two (2) used oil above-ground storage tanks (ASTs), two (2) drainage sumps, one (1) containment area, two (2) drainage troughs, and five (5) pier-side pump wells. Prior to conducting work, I prepared a site-specific Work Plan as well as an Accident Prevention Plan.

Project Manager/Licensed Remediation Specialist, VRP, TSCA PCB Cleanup, and Interim Remedial Action Activities, West Virginia American Water – Former Capital City Junk (September 2019-Current):
Serve as Project Manager and Licensed Remediation Specialist (LRS) for site assessment, 761.61(a) Self-Implementing On-Site Cleanup of PCB impacts through the United States Environmental Protection Agency (EPA) Toxic Substances Control Act (TSCA), as well as conducted interim remedial action (IRA) activities at the former Capital City Junk site located in Charleston, West Virginia. Contaminants of concern include PCBs, VOCs, SVOCs, and metals. Management of the site IRA is being conducted in conjunction with the WVDEP VRP along with coordination with the EPA.

Project Manager/Licensed Remediation Specialist, Uniform Environmental Covenant Act (UECA), Dunbar Food Mart (April 2022-Current):
Serve as Project Manager and LRS for site assessment and risk assessment activities at the Dunbar Food Mart (former Tobacco House) facility located in Dunbar, West Virginia. Contaminants of concern include benzene, ethylbenzene, and methyl tert-butyl ether (MTBE). Management of the site is being conducted through the WVDEP via the UECA program.

Project Manager, VRP and Interim Remedial Action Activities, Dow Chemical Company – Filmont Landfill (July 2022-March 2024):
Served as Project Manager while working with Environmental Resources Management, Inc. (ERM) for site assessment, risk assessment and interim remedial action activities at the former Filmont Landfill located in South Charleston, West Virginia. Contaminants of concern include VOCs and SVOCs. Management of the site interim remedial actions is being conducted through the WVDEP VRP along with coordination and cooperation with WVDEP's Environmental Enforcement.

Project Manager, VRP Activities, Owens-Brockway Glass Container Inc. (July 2022-March 2024):
Served as Project Manager while working with ERM for site assessment and risk assessment activities at the former Owens-Brockway Glass Container Inc. facility located in Huntington, West Virginia. A total of five (5) parcels entered into the WVDEP VRP separately. Have received Certificates of Completion (COC) on two (2) out of the five (5) parcels with two (2) additional parcels anticipated to receive COCs by summer 2024. Contaminants of concern include metals. Management of the site remediation is being conducted through the WVDEP VRP.

Project Manager/Licensed Remediation Specialist, VRP Activities, Appalachian Railcar – Hinton Yard:
Served as Project Manager and Licensed Remediation Specialist for site assessment, risk assessment and remediation activities at the Appalachian Railcar – Hinton Yard facility located in Hinton, West Virginia. Contaminants of concern include volatile organic compounds, semi-volatile organic compounds, PCBs, pesticides, and metals. Management of the site remediation is being conducted through the WVDEP VRP.

Project Manager/Licensed Remediation Specialist, VRP Activities, Hypar Machine Company:
Served as Project Manager and Licensed Remediation Specialist for site assessment, risk assessment and remediation activities at the Hypar Machine Company facility located in Richwood, West Virginia. Contaminants of concern include metals and PCBs. Management of the site remediation is being conducted through the WVDEP VRP with oversight by US Environmental Protection Agency representatives in accordance with the PCB Regulations under the Toxic Substances Control Act of 1976.

Site Supervisor/Onsite Coordinator, Joint Base Myer-Henderson Hall, Arlington, Virginia:
Site Supervisor/onsite Coordinator for UST closure/closure-in-place services at Joint Base Myer-Henderson Hall. Provided site supervision for UST closure and closure-in-place activities for four (4) separate locations at the Joint Base Myer-Henderson Hall complex. Areas included Buildings 227, 305, 307, and 313. Prior to conducting UST closure/closure-in-place activities, KEMRON conducted site investigation activities to determine the presence/absence of subsurface impacts utilizing Geoprobe® direct-push technology. Supervision of closure-in-place activities at Building 313 included the removal of product from the UST, purging the UST until the internal UST atmosphere reached a lower explosive limit of <10%, and to remove the tank bottoms, sludge, and rinsate from the UST followed by filling the UST with concrete. Also provided supervision of UST removal activities at Buildings 227, 305, and 307. As the Site Supervisor/Onsite Coordinator, was responsible for oversight of all closure activities, ensured all work was completed as per the established workplan, ensured that all work was being conducted safely while following all health and safety plan requirements, collected necessary samples as per Virginia Department of Environmental Quality Protocol, and coordinated with trucking company in order to excavate additional soils from the UST basin at buildings 227 and 307. Additionally, Mr. Chaber was responsible for and preparation of the ensuing Site Investigation and UST Closure Report.

Project Manager, Speedway Portfolio (West Virginia, Ohio, Kentucky, and Georgia):
Served as Project Manager for a number of active and former retail petroleum facilities within the Speedway portfolio. Actively managed a total of nine (9) West Virginia sites and one (1) Kentucky site. Activities included soil and groundwater investigations, monitoring well installation, UST system closure and oversight, excavation and off-site disposal of petroleum impacted soils, pilot testing of potentially applicable in-situ remedial technologies, Corrective Action Plan preparation and implementation, remediation system design/installation/O&M, groundwater monitoring, reporting, and coordination with the WVDEP and KYDEP. Has closed five (5) leaking underground storage tank sites utilizing BOS-200® technology. Currently has two (2) sites in post-remediation monitoring with anticipated closure in the beginning of 2022.

Project Manager, UST Facilities (West Virginia, Virginia, and Ohio):
Served as Project Manager for a number of active and former retail petroleum facilities currently under the West Virginia Department of Environmental Protection Leaking Underground Storage Tank program and the Ohio State Fire Marshal Bureau of Underground Storage Tank Regulations program, and the Virginia Department of Environmental Quality Water Quality Division Underground Storage Tank Program. Responsible for project direction, budgeting, development of work scope, project scheduling, compliance and correspondence. Sites include the former C&L Super Serve, Hurricane, West Virginia, Mason's Country Packette, Bolt, West Virginia, JKH, Inc. Tobacco House, Dunbar, West Virginia, BP&D Holdings, LLC facilities including the former Grimm's Grocery, Pullman, West Virginia and

Guysville Food Center, Guysville, Ohio and Joint Base Langley Eustis, AAFES Service Station, Building 1380, Fort Eustis, Virginia. Has closed a total of 10 leaking underground storage tank sites utilizing BOS-200® technology.

Project Manager, Site Assessment/UECA Program, Multiple Facilities:
Served as Project Manager for a number of active retail petroleum facilities currently under the West Virginia Department of Environmental Protection Uniform Environmental Covenant Act program. Responsible for project direction, budgeting, development of work scope, project scheduling, compliance and correspondence. Sites include C&L Super Serve, Mallory, West Virginia, 5-Star, Inc., Fairmont, West Virginia, and former 7-Eleven Facility #135, Rainelle, West Virginia.

Project Manager, Site Assessment/VRP Activities, Multiple Facilities:
Served as Licensed Remediation Specialist for facilities currently under the West Virginia VRP. Responsibilities included preparing coordination of the site for inclusion into the VRP. Preparation of a Sampling and Analysis Work Plan, Quality Assurance Work Plan, Remedial Action Work Plan, Final Report, and Certificate of Completion. Directed site investigation activities at the site on behalf of the property owner under the WVDEP VRP program, including Geoprobe soil and groundwater investigations and groundwater monitoring well installation and sampling. Sites include former Rice's Pennzoil, Belmont, West Virginia, Hypar Machine Company, Richwood, West Virginia (see above), Speedway Facility #3963, Rainelle, West Virginia, and Speedway Facility #3972, Charleston, West Virginia.

Class B Certified Remover/Onsite Coordinator, Multiple Facilities:
General Services Administration (GSA) Contract, multiple locations. Class B Certified Remover/Onsite Coordinator for UST closure/closure-in-place services at five facilities under a GSA Contract. Provided UST closure-in-place oversight activities for three GSA facilities including the Elizabeth Kee Federal Building in Bluefield, WV; the Wheeling Federal Building in Wheeling, WV; and the Parkersburg Federal Building in Parkersburg, WV. Prior to conducting UST closure-in-place activities, KEMRON conducted site investigation activities to determine the presence/absence of subsurface impacts utilizing Geoprobe® direct-push technology. Closure-in-place activities included the removal of product from the UST, purging the UST until the internal UST atmosphere reached a lower explosive limit of <10%, and to remove the tank bottoms, sludge, and rinsate from the UST followed by filling the UST with concrete. Also provided UST removal oversight activities for two GSA facilities including the Abingdon Federal Building in Abingdon, VA and the United States Forest Service Building in Elkins, WV. As the Class B Certified Remover/Onsite Coordinator, was responsible for oversight of all closure activities, ensuring all work is completed as per the established workplan, ensuring that all work is being conducted safely while following all health and safety plan requirements, collecting necessary samples as per West Virginia Department of Environmental Protection/Virginia Department of Environmental Quality Protocol, and preparation of the ensuing UST Closure Report.

Environmental Scientist, Site Assessment/VRP Activities, Multiple Facilities:
Field management of monitoring well installation at the former Capital City Junk, Charleston, West Virginia and Little General Facility #4080, Belle, West Virginia. Responsibilities included utilizing Geoprobe technology for characterization of soil, collecting the necessary QA/QC blanks, and following the required WVDEP guidelines for VRP projects.

Environmental Scientist, Site Maintenance and Environmental Cleanup:
Responsibilities included use of bioremediation to address spills as well as testing and treatment of purged water. Used bioremediation for the treatment of impacted soil and water. Utilized Geoprobe technology for characterization of soil and groundwater at several industrial and commercial facilities in West Virginia, Ohio and Kentucky to evaluate the extent of impacts resulting from petroleum releases.

Environmental Scientist, Monitoring and Groundwater Recovery Well Installation:
Field management of groundwater monitoring and recovery well installation activities at retail petroleum leaking underground storage tank sites in West Virginia, Kentucky, and Ohio. Mr. Chaber has installed more than 40 monitoring wells at LUST sites.

Environmental Scientist, Industrial Chemical Facility:
Development of sampling and analysis plan for Occupational Safety and Health compliance sampling within an industrial chemical facility. Responsibilities development of sampling protocol, quality assurance and quality control approach, comparison to health standards and dissemination of findings to client.

Field Coordination Experience:
Mr. Chaber is responsible for coordination of field activity work plans and field note documentation for the Charleston office. Mr. Chaber works as a liaison between management, administrative and field staffs in order to effectively communicate project work scope, safety requirements, quality objectives and proper budgetary considerations. Responsibilities include promotion of safety awareness, review of all field documentation including chains-of-custody, manifests and governmental correspondence, procurement of field equipment, and providing continuing education and follow-up monitoring of field activities.

Environmental Inspector:
Served as an Environmental Inspector with the West Virginia Department of Environmental Protection Division of Mining and Reclamation. Duties included enforcing federal and state mining and reclamation laws for surface and underground mines. Investigation of citizen complaints regarding all applicable mining issues. Inspection of various deep and surface mine facilities including but not limited to: prep plants, slurry impoundments, and underground mine operations to ensure compliance. Collection and testing of water to ensure compliance with NPDES permit. Coordinate with project development staff to initialize, develop, and enforce new programs including inspections/requirements, permitting issues, and monitoring of development. Completed numerous Office of Surface Mining offered training courses in fields such as; Excess Soil Disposal, Evidence Preparation & Testimony, Underground Mining Technologies, Applied Engineering Principles, Quantitative Hydrogeology, as well as many others.

Quality Assurance Technician:
Worked as a Quality Assurance Technician with Aplicare, Inc. Duties included executing various wet chemistry procedures (i.e. pH, specific gravities, viscosities, available iodine assay's, other titrations, and many others) on products to assure they are within company specifications. Performed raw chemical testing to ensure compliance with company quality control limits. Ran TOC (Total Organic Carbon) samples for the de-ionized water system. Performed equipment calibrations (pH meter, scales, thermometers, flow meter, surface tensiomat, viscometer, refractive index meter, conductivity meter, torque meter). Reviewed batch formulation records for errors or inconsistencies. Perform batch formulation calculations for various raw materials. Perform IPC's (In Process Controls) to ensure the quality of the product prior to manufacturing completion. Obtained extensive knowledge using Adobe Illustrator 10 by creating FDA compliant labels for over 50 of Aplicare's products.

JONAH L. ANDERSON
PROJECT MANAGER/REGIONAL FIELD MANAGER/PROJECT SCIENTIST

Education
BS, Environmental Protection with a Minor in Microbiology from West Virginia University, WV, 2005

Registrations / Certifications / Training
- 40 hr OSHA Hazardous Waste 29 CFR 1910.120, (8-hour Refresher expires 1/2019)
- 30 Hour OSHA Construction Standards Industry
- Class IV WV Drinking Water License and Fluoride Certification (expired)
- Ohio EPA DERR Soil Classification, Description and Logging Training.
- Nielson Environmental Field School for the Complete Ground-Water Monitoring Field Course
- Microsoft Project
- Ohio EPA Vapor Intrusion
- Transportation Worker Identification Credential (TWIC)
- Applied Groundwater Statistics
- Project Management Course
- Excavation Competent Person
- Hazwoper Supervisor
- Ohio EPA Ground Water Training
- WVDEP eDMR Course
- First Aid/CPR/AED

Mr. Anderson offers Twenty (20) years of progressive experience in the environmental field including but not limited to, water remediation systems, development of proposals, federal project site walks, cost estimates, work plans, staffing assignments, data review, report preparation, QA/QC audits, and project management, including roles as site manager, project manager, project scientist, and health and safety manager. Mr. Anderson's project management experience includes NPDES clients, groundwater monitoring projects for State permitting compliance and RCRA clients, as well as remediation and investigation projects. Mr. Anderson is also an experienced field scientist with experience in soil logging and well installations, test pit logging, soil/groundwater/surface water sample collection, data evaluation, air monitoring, and sampling program development. He also is experienced in SPCC, AST, GPP, SWPPP, LTM, Emergency Response, and RCRA Closure plan development. Mr. Anderson has also provided project health and safety oversight for project staff and subcontractors on numerous investigations. Additional work experience includes SOP development and training relative to sampling techniques commonly employed in environmental investigations, and review and implementation of new and evolving methodologies.

SELECTED PROJECT EXPERIENCE

Project Manager. Gavin Power LLC, Cheshire, OH. 3-2022 to Present. Project consists of the groundwater monitoring program plan including consistent sampling and analysis procedures that are protective of human health, safety, and the environment, and that were designed to ensure monitoring results that provided an accurate representation of groundwater quality. The development of the plan focused on the monitoring of PE‐certified groundwater monitoring networks according to the requirements of USEPA's April 17, 2015 coal combustion residuals rule, i.e., the CCR Rule. Following SAP development and approval, sampling of Groundwater Monitoring Wells to Meet the Requirements of the Federal Coal Combustion Residuals Rule at 40 CFR 257.93 (a) through (c) was initially conducted to collect eight discreet samples from monitoring wells in the PE-certified groundwater monitoring networks around inactive fly ash ponds, permitted CCR receiving landfills, and bottom ash process ponds. The parameters from 40 CFR Part 257 Appendix III (Constituents for Detection Monitoring) and Appendix IV (Constituents for Assessment Monitoring) were collected during the initial phase of data collection for the CCR Rule. Continuing monitoring at various units for State Permit Compliance and Federal CCR (detection and assessment) monitoring is being conducted following collection of initial background data.

Project Manager. Gavin Power LLC, Cheshire, OH. 4-2023 to Present. Project consists of Third Party oversite for a CCR regulated Bottom Ash Pond Closure and dewatering project. Field data collection (pH, turbidity, total residual chlorine, and conductivity), sample collection, and data management aspects for a database creation and ongoing efficiency tracking are completed to ensure the temporary water treatment systems are functioning to meet client objectives and regulatory requirements.

Project Manager. Marietta College, Marietta, OH. 11-2020 to Present. Project consists of a State Funded Grant for a study of COVID-19 in Wastewater. Project development consisted of peak flow review in coordination with the City of Marietta for all the student dormitories on campus and developing sampling

strategy to meet the Colleges requirements. Weekly composite sampling at multiple locations is currently underway. The study is currently ongoing and is projected to be a 5-month duration.

Regulatory Specialist. Cleveland Cliffs/AK Steel, Asset Retirement Obligation Reporting. 7-2020 to 12-2020. Multiple U.S. Steel Manufacturing Facilities. Active role as regulatory specialist and project scientist for this project for fifteen (15) active manufacturing facilities located through the eastern United States to identify Asset Retirement Obligations (ARO) for each site. The project included development of a questionnaire and interview of each facility environmental personnel, and development of plant-specific C&R scopes. Reviews of each facility's operations included: all site-specific permits and engineering drawings for site environmentally regulated units; waste generation and disposal/recycling records; regulatory orders; federal and state regulations, policy and guidance; SPCC inventories; existing estimates regarding closure of site units (such as USTs, injection wells, wastewater treatment units, etc.); aerial photos and other information to identify any waste piles on site; leasing obligations; and other site-specific information. The information was used to identify each site's C&R obligations, coordinate information requests for each site, and preparation of draft, final draft and final reports. The reports included summary text, detailed regulatory matrices, and a custom-designed site-specific cost model. The project was completed without ability to conduct site-specific visits due to the COVID-19 pandemic, on a highly compressed schedule. The reports for all 15 sites were completed with minimal client comment, on schedule and under budget.

Senior Scientist. Fort Mcalester (MCAAP). Mcalester, OK. 8-2019 to 9-2019. Field team leader for project kickoff related to groundwater monitoring effort for the initial contract phase. Ground water sampling was conducted on permanent wells using low flow methodologies at multiple sites across the facility. This effort included mostly dedicated pumps to collect VOC's, RSK's, TOC, Dissolved Manganese, SO4, DPD field analysis, and Nitrate/Nitrite.

Project Manager. AEP Amos Facility, Winfield, WV, 8/2018 to 10/2018. Developed a sampling and analysis plan for a fuel spill located at the AEP facility. Following plan approval by WVDEP field activities were executed and a data summary report was completed. Following plan submittal WVDEP issued a closure letter for the tank site.

Project Manager. AEP Amos Facility, Winfield, WV, 1/2020 to 4/2020. Developed a sampling and analysis plan for an Ammonia Spill located at the AEP facility. Following plan approval by WVDEP field activities were executed and a data summary report was completed. Following plan submittal WVDEP issued a closure letter for the spill area.

Project Scientist. RCRA Part B Permit Renewal Application, Momentive Performance Materials, Friendly, WV, 4/2017-5/2018. As Project Scientist completed development and submittal of a RCRA Part B Permit Renewal Application for a specialty organic chemicals manufacturing facility. Permitted units include storage in tanks and containers, an operating landfill, surface impoundments, and a rotary kiln. Corrective action requirements include a closed landfill, an operating groundwater extraction well, and multiple units with groundwater monitoring and reporting requirements.

Project Manager. MPM Silicones, Friendly, WV, 5/2015 to 1/2019. Conducted a LL-Hg study in accordance with an approved WVDEP work plan in preparation for a waste water treatment facility upgrade. Conducted review of the current RCRA part B permit and completed groundwater sampling training for site employees. The groundwater sampling training coincided with WVDEP facility audits and resulted with no comments on sampling methodology and process.

Project Manager. Solvay, Marietta, OH, 1/2017 to current/ongoing. Designed sampling strategy and conducted BWON (Benzene Waste Operations: National Emission Standards for Hazardous Air Pollutants), MON (Miscellaneous Organic National Emission Standards for Hazardous Air Pollutants), Subpart CC (Organic Air Emission Standards for Tanks, Containers, Surface Impoundments, and Miscellaneous Units) sampling by USEPA 25D methodology for the facility, which is being directed by USEPA. Developed sample strategy based on USEPA guidance for sampling volatile organic concentrations of waste samples. Project implementation was conducted under USEPA over site and had

project constraints due to working in the process areas of the facility and sampling from active production vessels.

Project Manager. Brown Asphalt, Parkersburg, WV, 3/2015 to 5/2015. Completed development of SPCC, GPP, SWPPP Plan for submittal to WVDEP.

Project Manager. CES Barnesville Facility, Barnesville, OH, 2/2015 to 5/2015.: Completed development of SPCC, GPP, SWPPP Plan for submittal to WVDEP.

Project Manager, Sabic Landfill and GW System, Washington, WV. 9/2010 to current/ongoing. Completed a background water quality study for NPDES permit development and manage the leachate groundwater system operations and compliance for the landfill.

Project Manager, Enlink Midstream, Brushy Fork, WV, 6/2015 to 5/2018. Remediation project for crude oil spill response located near Brushy Fork, WV. Development of site work plans and completion reports in accordance with WVLRS standards. The project has had data reduction through multiple phases of remediation and site monitoring. Received a no further action letter from WV DEP May 2018.

Project Manager AMES, Dexter City, OH, 3/2016 to 5/2016: Completed SWPPP development and submittal to state of Ohio.

Project Manager. Solvay, Marietta, OH, 2/2016 to 1/2018: Conducted a review/update of the SPCC Plan and updated the inventory to meet regulatory requirements.

Project Manager for AEP Kammer: AEP Plant expansion site, New Martinsville, WV, 6/2015 to 12/2015. Provided field environmental oversight of soil excavations within an electrical substation expansion on an active plant site.

Project Manager. Solvay, Marietta, OH, 6/2016 to 12/2016. Well abandonment and dedicate pump system installation to improve optimization of the groundwater monitoring network. Completed a Site Specific H&S Plan for the described work.

Project Scientist. AEP CCR sites Conesville and Gavin, Conesville, OH and Cheshire, OH. 12/2017 to 1/2018. AEP Coal Cumbustion Residuals (CCR) sampling for two AEP power plant sites located in Conesville and Cheshire, OH. Assisted in project scheduling, staffing and completeness reviews for 16 comprehensive groundwater monitoring well sampling events over a compressed 12 month period. Integral in the project kickoff and planning phases of the projects.

Project Manager. Solvay, Marietta, Ohio. 3/2017 to current/ongoing. Project manager for the groundwater treatment system operations and maintenance for the form Cytec facility.

Project Scientist. Landrum & Brown, Phase I ESA using FAA EDDA Methodology: Charlotte Douglas International Airport, Charlotte, NC 5/2014. This project included a comprehensive site assessment of all existing rental car facilities and surrounding adjacent properties, encompassing approximately fifty acres. Environmental issues of concern included USTs and soil and groundwater contamination associated with past UST system releases and hazardous materials storage, and potential impacts to planned future property use based on existing conditions.

Project Scientist, Landrum & Brown, Phase I ESA and Hazardous Material Survey using FAA EDDA Methodology: Charlotte Douglas International Airport, Charlotte, NC. 6/2015. This project included site assessment for adjacent industrial properties and several current airport locations for the planned expansion projects. A comprehensive site assessment was conducted in accordance with FAA and EDDA regulation. In addition to this a Hazardous Material survey was completed for the subject areas to determine areas of concern for asbestos and lead in paint.

Sunbelt Rentals, Project Geologist; June 2016 to January 2018: Mr. Callihan has assisted in emergency response, assessment, and remediation of multiple sanitary sewer releases around the Atlanta Metropolitan area. Activities have included emergency response, material release control and abatement, release assessment including quantity and impact estimates and potential treatment planning, surficial site treatment, and reporting. Additionally, Mr. Callihan has assisted with waste removal, waste manifesting, and coordination and supervision of multiple vacuum and waste transport trucking companies.

Georgia EPD Underground Storage Tank Management Program, Project Geologist; March 2016 to May 2019: Mr. Callihan has conducted water resource surveys throughout southern Georgia in order to prioritize site remediation for the Georgia EPD. Additionally, Mr. Callihan has overseen multiple activities associated with remediation of UST sites, including monitoring and recovery well installation, sampling, multi-phase evacuation events, and remediation system O&M. Additional responsibilities associated with this project included figure production, data support, and written report assistance.

Wellsite Geologist and Crew Manager, Permian Basin – Multiple Sites, October 2012 to November 2015: Managed the oversite of wellsite geologist crews during drilling of petroleum, saltwater injection, and waste wells throughout the Permian Basin in New Mexico and Texas. From initial spud through total depth boring termination and casing operations, managed interactions with other onsite contractors, including drillers, geosteering companies, and mud specialists, while maintaining communication with off-site energy client personnel. Primary duties of the geologists on each site were to evaluate and log lithologies of drill cuttings, collect soil and gas samples, test and evaluate for presence of hydrocarbons, and monitor combustible gasses within the borehole and samples. Over the course of three years, Mr. Callihan oversaw the drilling operations for more than fifty wells and four separate energy companies,

Quality Assurance (QA) Team Manager and Geographic Information Systems (GIS) Analyst, Atlanta, Georgia, 2010 to 2011: As a GIS Analyst and Quality Assurance Manager to a GIS Team, was responsible for cartography, line digitization, and component connectivity of the distribution network of power lines for a major electricity provider in the southeastern United States. As QA Manager, was responsible for coordination of task assignment to a team of 12 GIS Analysts, quality checking all GIS products that came from the team prior to client submittal and review, and direct coordination with the client on data deliverables, scheduling, and coordination of new tasks and projects within the client-run GIS database.

Project Scientist: Conducted many multi-phase extraction (MPE) events for various clients throughout Georgia. 12/2005 to 12/2006. Projects included set up and monitoring of multiple wells to monitor for draw down, collection of product from contaminated groundwater and transport of contaminated media to appropriate recycling facilities. Locations for events ranged from various size LUST sites and Hartsfield-Jefferson International Airport.

Project Scientist: USACE LUST Sites, Location. 12/2005 to ongoing. Conducted groundwater sampling events for multiple clients including LUST sites, Army Corps of Engineer Projects, US Army facilities, RCRA sites, CERCLA sites, and private industry sites. Groundwater collection procedures include hand bailing, various pumping, and low-flow sampling. Responsible for preparing and implementing standardized procedures for monitoring, management and disposal of investigation derived waste (IDW), and documenting all field activities and data.

Project Scientist/Safety: Multiple Projects. 12/2005 to ongoing. Provided oversight for data logging and installation of ground water monitoring wells, soil borings for data collection, well injections, and monitoring well abandonment. Well installation sites include Industrial, Federal, UST investigations, RCRA permitted sites, and multiple Phase II investigations.

Project Scientist: York Atlas Missile Site, Nebraska. 6/2006. Conducted remedial investigation for former Atlas 10 Missile Silo Site in York, Nebraska for the Army Corp of Engineers. Investigation consisted of a subsurface delineation of an unknown sized TCE plume by using a Geo-Probe to collect soil and groundwater samples.

Project Scientist: Conducted Phase I and II ESA's located in West Virginia, Ohio, North Carolina and Georgia. 12/2005 to ongoing. Site investigations range from small inactive industrial sites to Charlotte, NC Airport. Field investigations include property reconnaissance, deed history search, and evaluation of database information collection. Finalized reports in accordance with ASTM standards and using best professional judgment for recommendations. Field investigations consisted of contaminant delineation and data evaluation for impacted ground water and soil with final report recommendations.

Task Manager, Radford Army Ammunition Plant SWMU 57, Radford, VA: 10/2010 to 9/2015. Conducted excavation and off-site remedy task management and oversight for Radford Army Ammunition Plant (RFAAP), implementing the USEPA and VDEQ approved final work plan for SWMU 57. Field work consisted of groundwater sample collection for confirmation of ability to achieve clean closure, collection of pre-excavation soil samples through hand auger sampling for waste profile and verification of depths for contaminated soil removal. Coordinated with RFAAP for all activities conducted onsite, including site specific permitting, notifications, personnel clearances and badging for entire field team, scheduling notifications and approvals, and approvals of all equipment brought on-site. Responsible for oversight of field team and preparation of daily reports to KEMRON Senior Project Manager and RFAAP key points of contact on a daily basis. Interim Measures consisted of removal of contaminated soil, conduct of soil confirmation sampling, evaluation of all site data to verify achievement of remedial goals, and backfilling with clean approved fill. Also included was abandonment of ground water monitoring wells in accordance with state requirements, and preparation of all related well closure documentation for submittal to the state. After field completion, responsible for completing the Interim Measures Completion Report and for management quality assurance and quality control review. Responsible for representing UXB-KEMRON at quarterly RAB meetings, and presenting current site specific information to the public. This project received an exceptional rating on the CPAR following contract closeout.

Task Manager, Radford Army Ammunition Plant SWMU 40, Radford, VA: 10/2010 to 9/2015. Conducted cap repair as part of Interim Measures Implementation and initiated long term monitoring for closure at SWMU 40 solid waste landfill. Task manager and field scientist for installation of a (deep double cased) down gradient monitoring well. The installation of the monitoring well was to serve as the third down gradient monitoring well within the network of wells at SWMU 40 for long term monitoring. Acting Task Manager for completion of Long Term Monitoring, data evaluation, and potentiometric surface map evaluation. Completed approval of soils for site use through coordination with RFAAP and USAEC. Coordinated with RFAAP for all activities conducted onsite, including site specific permitting, notifications, personnel

clearances and badging for entire field team, scheduling notifications and approvals, and approvals of all equipment brought on-site. Responsible for oversight of field team and preparation of daily reports to KEMRON Senior Project Manager and RFAAP key points of contact on a daily basis. After Interim Measures completion, responsible for completing the Interim Measures Completion Report and for management quality assurance and quality control review. Completion of Long Term Monitoring Reports, Site Remedy Review and data evaluation to meet project goals. Responsible for representing UXB-KEMRON at quarterly RAB meetings, and presenting current site specific information to the public. Completed the site remedy review and received concurrence by regulators and site personnel to discontinue monitoring while continuing to enforce the LUC. This project received an exceptional rating on the CPAR following contract closeout.

Project Scientist, AK Steel Middletown Dicks Creek RCRA Corrective Action Project, Middletown, OH. 5/2012 to 11/2014. PCBs are present within the stream area of Dicks Creek due to the historical use of PCB-containing oils in equipment used at the plant. Project support consists of document review, project specific document addendums, and assistance in developing site strategies to support the remediation activities. Completed permit application for year three NPDES permit and PTI/Design for Water Treatment System. Document review consisted of the; Year Two Design Document, Year Three Design Document, The Consent Decree, The storm Water Pollution Prevention Plan, The Site Specific Health and Safety Plan, and site specific permits.

Project Scientist, AK Steel Middletown Slag processing, SWMU 38/39, Interceptor Trench, MDA-33, SWMU 23 and Additional Areas RCRA Corrective Action Project, Middletown, OH. 1/2015 to ongoing. Ongoing support for file review, RFI informational input, field labor costs, and site walks for plan preparation. Field support for soil gas sampling, soil gas well installation design, groundwater monitoring and NAPL verification.

Project Scientist, AK Steel Ashland Coke Plant RCRA Corrective Action Project, Ashland, KY. 9/2015: Providing support for plant closure and development of the RCRA Sampling and Analysis Plan (SAP). Support includes development of SAP site geology background and data review and evaluation of screening criteria.

Project Scientist, AK Steel Mansfield Plant RCRA Contingency Plan Project, Mansfield, OH. 9/2012 to 1/2013. Completed plan development for the site specific RCRA Contingency and Emergency Response Plan for submittal to local, state, and federal agencies. Project consisted of plan development, site evaluation, client approval, and plan submittal.

Project Scientist, MIBA Bearings Plant RCRA Closure Plan Development Project, McConnelsville, OH. 10/2013 to 3/2014: Completed plan development for the site specific RCRA Closure Plan for submittal to Ohio EPA. Project consisted of plan development, site evaluation, client approval, financial assurance, and plan submittal. Field manager for closure plan implementation and developed project specific H&S Plan following plan approval by regulators. Completed the RCRA Closure Completion Report with approval by regulators.

Project Scientist, USARC-Kings Mills, OH. 9/2011. Active Army Reserve Station with a ground water treatment system for treatment of TCE. Completed tasks for this project consisting of system maintenance assistance, ground water sampling audits, and assisting in completion of the ground water summary reports.

Project Scientist, AK Steel Hamilton CERCLA (Superfund) Project: Closed Steel Company Site, Southwest OH. 10/2010 to ongoing. Environmental Scientist for supplemental remedial investigation activities completed at a closed steel manufacturing facility (Former Armco Hamilton facility) in Hamilton/New Miami, OH. Responsible for access agreements to complete site background soil data evaluation. Site audit for safety and O&M requirements. Located and surveyed (GPS) areas of safety/health concerns.

Project Manager, Cytec Willow Island Facility, Willow Island, WV. 5/2013 to current/ongoing: Project Manager for active facility compliance, troubleshooting, and storm water sample collection. Worked with facility and WVDEP for new process compliance to meet state chlorine residual discharge compliance. Managed permit renewal requests, upstream water quality study for permit renewal data, effluent bacteria study for foreseen compliance issues with NPDES permit, and ongoing compliance monitoring for facility wastewater.

Project Scientist/Safety/Manager: Conducted well installation/piezometer and abandonment at a RCRA facility site (Cytec Industries) in Marietta, OH. 10/2015 to current/ongoing. Instrumental in the design and installation of a special packer that was installed to control artesian properties of multiple wells located on the site. Completed well construction logs after well and piezometer installation. Site safety officer during drilling activities. Updated and developed Site Specific Health and Safety Plan and RCRA Contingency Plan. Site management consists of Quarterly inspections with the Client and EPA, monthly involvement with the community action board, direct involvement with the client, and managing all day to day activities that take place on site.

QA/QC Auditor: Multiple Sites, Various Locations. 9/2010 to current/ongoing. Routinely conduct and complete field audits. Site audits consist of groundwater sampling methods and adherence to SOP's and SAP's. To date, personally responsible for conduct of audits on Cytec, KRATON, Solvay, Kings Mills, PPG, AEP projects, and multiple internal audits.

Project Manager/Scientist: Completes annual MDL study for the AEP Waterford and AEP Dresden Plants, OH. 9/2011 to current/ongoing. The method detection limit is completed in accordance with the recommended EPA procedure.

Project Scientist: Individually responsible for conduct of quarterly and annual SPCC inspections at AK Steel Zanesville Works and AK Coshocton Works, Zanesville and Coshocton, OH. 9/2010 to current/ongoing. Lead contact for all site specific information, and responsible for coordinating all site details with plant personnel. Responsible for drafting key elements of SPCC plan updates for review by Project Manager and Project Engineer. Additional assistance with updating SPCC plans for AK Steel Ashland and AK Steel West Works Plants.

Project Scientist, Red River Army Depot, Hooks, TX. 9/2010 to current/ongoing. Field environmental scientist for continuing groundwater investigation activities at an active military base in Texas. Groundwater sample collection by Low-Flow sampling methods and no-purge (Snap™) sampling methods. Assisted in performance monitoring at permeable reactive barrier (PRB) containment walls including slug tests, re-sizing and concrete pad repair and replacement of monitoring wells near the PRB wall, and semi-annual extraction of LNAPL at one specific site monitoring well. Completed project cost development for project proposal.

Project Scientist: Providence Park, Fulton County, GA 12/2005 to 12/2006. Department of Public Works. Provided assistance in the remedial activities associated with this site including well installation, groundwater sampling, contamination removal, and surveying.

Project Scientist: Brownfield project at former rail car repair station located in Atlanta, GA. 7/2006. Provided soil sampling for Lead and VOC contaminates for the extent of contamination investigation. Assisted in the removal of contaminated soils by taking confirmation samples and manifesting trucks.

Project Scientist: Former Union Carbide Facility, Hastings, WV. 9/2011 to 11/2013. Assisted in soil and groundwater investigations conducted at a former natural gas compression facility in Hastings, WV. Project work performed in accordance with WVDEP Voluntary Remediation Program (VRP) in conjunction with redevelopment of the property by a new industrial owner. Assisted with several phases of environmental assessment.

Project Manager, AMP, OH, 9/2010 to 12/2016: Project Manager for developing a Post Closure Groundwater Monitoring Plan for the Closed North Flyash Storge Area. The plan was approved by Ohio

EPA. Semiannual reports and groundwater statistical analysis, in accordance with USEPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, are completed for this site in conjunction with the field monitoring activities. Conducted a leachate study and statistical analysis report for the landfill.

Project Manager, Sabic/GE Landfills, Washington, WV. 1/2013 to current/ongoing: Project Manager for groundwater statistical analysis reporting, in accordance with USEPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, which is completed for this site in conjunction with the field monitoring activities.

Project Manager, Kraton Polymers Flyash Pond Investigation Belpre, OH. 11/2013 to 8/2014. Manager for field investigation at a slag pond and flyash management unit at an active manufacturing facility. Investigation was in preparation of pond closure and delineation of arsenic as a COPC. Project objective was to obtain data to vertically and horizontally delineate arsenic soil concentrations above the site background and determine if any samples had arsenic concentrations above the soil-to-groundwater leaching protection standard. Prepared the site specific H&S Plan.

Project Manager, Kraton Polymers Effluent Pond and Spill Response. Belpre, OH. 1/2014 to 12/2014. Manager for spill response at an active manufacturing facility located along the Ohio River. Coordinated response and sampling efforts to delineate vertical contamination from a release to the Ohio River. Following spill response efforts, a plan was developed to delineate the extent of contamination (DEE and Cyclohexane) in the final effluent pond at the manufacturing facility. Prepared a site specific H&S Plan for this project for working on and near water. Following site delineation, a report with analytical results was submitted.

Project Manager/Scientist, Belpre, OH. 5/2011. Conducted air monitoring at a large industrial site for KRATON Polymers. Scheduled and coordinated 24-hour monitoring. Monitoring consisted of pump set up and monitoring in accordance with applicable OSHA guidelines for lead.

Project Manager, Kraton Polymers Groundwater Investigation Belpre, OH. 1/2012 to ongoing/current. Developed and conducted a plan for tracking a Diethyl Ether Plume located at an active facility. Field efforts included drilling oversight, lab coordination, sample collection for soil and groundwater, and field screening for sample collection. Ongoing monitoring and data tracking are currently underway for this project.

Project Manager: Completed NPDES Permit Renewals for AEP Cardinal Plant, AEP Lawrenceburg Plant, AEP Sporn Plant, AEP Mountaineer Plant, AEP Conesville Plant, Sabic, KRATON and various other clients and locations. 9/2010 to current/ongoing. Project consists of coordinating sample collection, analytical requirements, and permit review and comment. Tracked costs and distributed and reviewed data for clients. Permit renewals were completed for permitted landfills and active plants.

Project Manager: Multiple Sites and Locations. 9/2010 to current/ongoing. Client interaction, tracks cost, permit or work plan review, develops SOP's, completes discharge monitoring reports, schedules sampling, and routinely provides cost estimates and proposals, analytical data review, as well as QA/QC for multiple NPDES and Groundwater clients. Clients consist of AEP, Ashland-Marathon, KNH/CES, Cytec, SMRC, Century, Colgate, Dimex, Flexmag, Solvay, Thermo Forma, Kraton, Mountwood Park, Praxair, Promanco, Richardson Printing, RJF, Sabic, Shield, Swagelok, Cytec, AMP, Eramet, Atlas Towing, Triad-Hunter, DuPont, Bob Evans, SkyLine Steel, and Warren Distribution.

Water Treatment Operator: Parkersburg Utility Board, Parkersburg, WV. 12/2006 to 9/2010. Conducted water quality lab analysis while maintaining a public water treatment facility that produced an average of 4 MGD. Duties consisted of state compliance for sampling, monthly operational reports, and having a vast knowledge of the entire treatment system. Pump calibration and chemical feed rate where checked daily to ensure safe drinking water in accordance with the EPA and Board of Public health guidelines.

Project Scientist: Ryeland Road Arsenic Site Berks County, PA.9/2006. Conducted site remediation preparation on this site which was used by Standard Chemical Works Corporation (SCWC) and Allegheny Chemical Corporation (ACC) to make pesticides, fungicides, paints and varnishes and some disposal of

waste. Preparation consisted of clearing land, silt fence installation, and test pit investigations to survey extent of contamination. Ryeland Road Arsenic site is a Region III CERCLA site.

Project Scientist/Site Health and Safety Officer: Flash Foods, Atlanta, GA. 8/2006. Conducted oversight for the removal of UST's located at a former fuel facility. Duties consisted of soil sampling, air monitoring, and Health and Safety oversight.

Project Manager, Warren Distribution, Glendale, OH, 10/2012 to 1/2013. Developed sampling strategy and conducted personal and area air sampling/process exposure monitoring. Project consisted of air sampling during phases of the production process in order to determine the potential for exposure to vapors of various chemicals and oil mist resulting in conditions for worst case scenarios. Developed a site recommendation report based on field data collection for the client to develop necessary and appropriate response policies for chemical handling incidents and policies for employee safety.

Project Manager, Atlas Towing Alternative Source Investigation. Parkersburg, WV. 9/2010 to current/ongoing: Completed permit renewal application and Consent Order consulting. Developed and implemented an alternate source plan for issues related to stormwater under approval by WVDEP.

Project Manager, St Marys Refining Company, WV. 1/2013 to current/ongoing. Manage semiannual groundwater monitoring events for a MNA groundwater project. Completed a site/off-site monitoring well and extraction system removal and abandonment in accordance with WVDEP regulation.

EMPLOYMENT HISTORY

Project Manager/ Regional Field Manager, Project Scientist, KEMRON Environmental Services, Inc., Marietta, OH, 9/2010 to current

Water Treatment Plant Operator, Parkersburg Utility Board, Parkersburg, WV, 12/2006 to 9/2010

Staff Scientist, KEMRON Environmental Services, Inc., Atlanta, GA, 12/2005 to 12/2006

Assistant Scientist –Microbiology Department, Division of Plant and Soil Science, WVU, 9/2004 to 9/2005

Assistant Scientist – Plant Pathology Department, Division of Plant and Soil Science, WVU, 9/2003 to 9/2004

Aviation Machinist Mate, United States Navy, Oak Harbor, WA, 9/1997 to 9/2001

M. STEPHEN CALLIHAN, PG, PROJECT MANAGER

Education
BS, Geology, Appalachian State University, 2009

Registrations / Certifications / Training
- Georgia Registered Professional Geologist (PG002296)
- Texas Registered Professional Geoscientist (15037)
- Arkansas Registered Geologist (3012)
- USACE Construction Quality Management (CQM) (#784)
- OSHA 29 CFR 1910.120, 40-Hour Health and Safety Training and Annual Refreshers
- OSHA 30-Hour Construction
- OSHA 10-Hour Construction CBT
- OSHA 1926 Subpart P – Excavation and Confined Spaces Competent Person Certification (CPT)
- CPR/First Aid Certified
- Level I Antiterrorism Awareness Training
- SafeLand USA Rig Safety Training
- DOT Hazmat Transportation Training

Stephen Callihan is a Project Manager and Registered Professional Geologist with over 15 years of professional experience in hydrogeological investigation, site characterization, environmental remediation, and Military Munitions Response Program (MMRP) sites. As a Project Manager, he has successfully navigated large-scale and long term contracts with many stakeholders, complicated regulatory contexts, and dynamic field conditions. He has experience with a variety of federal clients (AEC, BRAC, USACE [multiple districts], NAVFAC, and USEPA) as well as private sector clients under multiple contracting types (Firm Fixed Price [FFP] and Performance-Based Contracts [PBC], time and materials, and unit cost-based). He possesses extensive knowledge of federal and state-specific regulations, including CERCLA, RCRA, and state-specific RCRA and UST regulations. He has managed a variety of projects, including but not limited to RCRA Facility Investigations and Corrective Measures Studies (RFI/CMS), Remedial Investigations and Feasibility Studies (RI/FS), Remedial Design (RD), monitored natural attenuation (MNA) and Long Term Monitoring/Operations and Maintenance (LTM/O&M), source area remediation/removal, underground storage tank (UST) removals and associated remediation and reporting, in-situ site remediation via injection and amendment emplacement, Permeable Reactive Barrier (PRB) design and implementation, as well as unexploded ordinance (UXO) removal and digital geophysical mapping (DGM). He is skilled in performing the planning, investigation, design, remediation and/or implementation phases of projects, while managing construction and field teams and maintaining project schedule and budget. Mr. Callihan serves as the primary point of contact for clients, while providing financial and schedule oversight, managing project personnel, subcontractors, and resource acquisition, and ensuring delivery of quality products to the client in a timely and cost-efficient manner.

SELECTED PROJECT EXPERIENCE

OTC Landfill PRB Wall, Red River Army Depot, Texarkana, TX, Project Manager, September 2024 to present: Mr. Callihan is the Project Manager and senior Geologist for a project located at Red River Army Depot to complete a Permeable Reactive Barrier (PRB) Wall investigation, design, and implementation, and monitoring network evaluation and amendment under an existing RCRA Permit. This contract is a FFP task order performed under a Joint Venture. The scope of work includes site evaluation in the form of Membrane Interface Hydraulic Profiling Tool (MIHPT) Surveying, groundwater sampling, test trenching, and soil boring to be followed be final design of a PRB Installation Plan. The PRB Installation is anticipated to be a self-performed project overseen by Mr. Callihan, which will comprise the installation of an approximately 1400 linear foot PRB and multiple new monitoring wells, followed by a period of performance monitoring. An updated Remedial Action Plan, Corrective Measures Implementation Plan, and RCRA Permit Modification for the site will all be submitted during the completion of this project.

Former Lone Star Army Ammunition Plant, Texarkana, TX, Project Manager, March 2024 to present: Mr. Callihan manages this Compliance Monitoring Services task order, covering six sites at the former Lone Star Army Ammunition Plant (LSAAP), performed under a Joint Venture. Work must comply with permit and regulatory requirements under RCRA and CERCLA, including Industrial and Hazardous Waste Permit and Compliance Plan No. CP-50292, Response Action Plans completed under TRRP, Texas Solid Waste regulations and permit requirements for Area A Landfill, site specific sampling and monitoring plans, and a Record of Decision (ROD) issued for the Old Demolition Ground (ODA). The scope of work includes groundwater and surface water sampling and analysis; landfill gas monitoring; landfill cap inspections; landfill cap monitoring; and development of reports incorporating all activities and data for both Army and

TCEQ/USEPA approval. The High Explosive Burning Ground (HEBG) contains UXO hazards and requires UXO support and escort for all site activities.

Scanlon Reservoir, Scanlon, MN, Project Manager, February 2022 to present: As Project Manager of this FFP contract, Mr. Callihan has overseen the planning, land-based site development construction, and on-water operation of the sediment remediation project. This project involved earth moving and site development, with multiple field crews working concurrently while preparing for water-based operations, involving distribution and placement of Pelletized Powder Activated Carbon (PAC) and sand cover across the reservoir bottom to protect benthic organism from ingestion of dioxin/furan contaminants within the reservoir. Beyond project planning, scheduling, budget and personnel management, and site and subcontractor coordination, Mr. Callihan's responsibilities included conducting meetings with EPA and USACE stakeholders, permit application and document production oversight, and client communication.

Red River Army Depot, Project Manager, June 2020 to present: Managed and supported multiple compliance activities under a PBC contract USACE Fort Worth and Tulsa at the Red River Army Depot (RRAD) under RCRA. Activities include groundwater compliance, Long Term Monitoring Optimization (LTMO), RCRA Industrial and Hazardous Waste Permit Renewal and Modification, an Interim Corrective Measures (ICM) Feasibility Study (FS), and extension of a previously installed PRB. Successfully oversaw implementation of field sampling events, which include nine regulated sites and over 200 groundwater monitoring locations, management of field and construction personnel, as well as completion of reporting and permit compliance submittals within client-requested timelines and budgets. Oversaw and completed the preparation of a formal LTMO Study, which was used to propose modification to groundwater network and compliance requirements of the RRAD Industrial and Hazardous Waste Permit. Renewal and Modification of the RCRA Permit was also an incorporated task under this contract. Led the ICM FS at an industrial site, which included data analysis across multiple areas of the site, remedial design evaluation, engineering estimates, and remedial alternative selection. Approval of the FS led to successful implementation of the selected remedial action consisting of PRB Wall extensions and performance monitoring. The remedial action was completed successfully and performance monitoring will ultimately lead to modification of the RCRA permit and incorporation into the LTM plan.

Fort Stewart, Hinesville and Hunter Army Airfield, Savannah, GA, Project Manager, August 2019 to February 2025: Managed all project activities at eight sites, four at Hunter Army Airfield (HAA) and four at Fort Stewart for a PBC task order under company ERMA contract with AEC. The sites included petroleum releases, chlorinated VOC groundwater releases, and areas containing munitions and explosives of concern (MEC). As Project Manager, Mr. Callihan maintained active client contact and coordination; managed project risks, financials, schedule, subcontracts, and purchase orders; and planned and hosted Tier 1 meetings between AEC and GAEPD. Activities at Fort Stewart included the production of Corrective Measures Studies (CMSs) and Corrective Action Plans (CAP) for three Munitions Response Sites (MRS), one former grenade launcher range and two anti-aircraft ranges, at the Installation in accordance with a RCRA Part B Permit. All studies and action plans were approved through the GAEPD DoD Unit. At HAA, beyond Project Manager, he also served as the technical manager for the design and implementation of Emulsified Vegetable Oil (EVO) injections and groundwater monitoring at three sites to remediate chlorinated VOC in the groundwater, soil remediation via excavation and off-site disposal, and long term monitoring under CERCLA. He implemented monitored natural attenuation (MNA) for two petroleum Corrective Action sites under GAEPD Underground Storage Tank Management Program (USTMP). This effort included completion of Corrective Measures Studies (CMS), Proposed Plans (PPs), Records of Decision (RODs), and Remedial Action Work Plans (RAWP) under CERCLA, as well as Monitoring Only Reports (MORs) under the USTMP.

Fort Campbell Environmental Condition of Property (ECP), Fort Campbell, KY, Project Manager, August 2023 to June 2024: KEMRON's JV with Leisnoi was awarded a task order by USACE Louisville District to complete an ECP for 130-acre area located at Fort Campbell along the Tennessee-Kentucky border. The project consists of conducting a combined ECP and Phase I Environmental Site Assessment (ESA) report that satisfies all requirements of ASTM E 1527-21, as well as additional requirements set forth by DOD requirements and ASTM D5746-98, and AR 200-1. As project manager Mr. Callihan oversees the

preparation, review, and submittal of all planning and safety documents, as well as leading the field effort for on-site inspection, and completing the evaluation and final report of the ECP/Phase I ESA.

Plant Watson Temporary Remedy, Gulfport, MS, Project Manager, March 2022 to January 2023: Managed the FFP contract which involved construction of a temporary groundwater extraction system beneath a former coal combustion residual (CCR) unit at a power plant in southern Mississippi. The extraction system involved construction of a water conveyance system from four main extraction wells within the CCR unit across the CCR unit, through, over, and/or under multiple operational obstructions to an internally constructed water treatment system, which then discharged treated water into an onsite leachate pond. Responsibly managed planning and procurement of all designs, required materials, and specialized subcontractors, and supported day-to-day operational management of the construction crew. The still-operational remedy was completed within client-requested time limits and under the estimated client budget.

Confidential Client, Active Steel Tube Mill, Houston, TX, Project Manager, December 2019 to present: The site is an active tube mill with a tetrachloroethylene groundwater plume remediation in accordance with the TCEQ TRRP requirements. After completion of an APAR, a SIN was filed and a groundwater remediation system installed and operated in order to achieve groundwater Remedy Standard A requirements. The groundwater remediation system was idled and the site is currently under a monitoring program, while the project is transitioned through a Municipal Setting Designation with the City of Houston. Upon receipt of the MSD approval, an updated APAR and a Response Action Effectiveness Report (RAER) will be prepared and submitted to TCEQ to close-out the SIN. Semi-annual groundwater monitoring is currently continuing with monitoring reports regularly submitted and approved to TCEQ. Coordination and negotiation with both TCEQ and the City of Houston is ongoing to complete the project.

Confidential Client, Closed Hazardous Waste Landfill, Houston, TX, Project Manager, December 2019 to present: Manages the compliance program for a closed hazardous waste landfill associated with a former steel mill. The site operates under a RCRA post-closure permit which requires groundwater LTM, maintenance and reporting in compliance with the requirements of the TCEQ issued permit. Annual waste permit reporting requirements are completed through the STEERS on-line reporting system, with groundwater data analysis and reporting filed annually with the TCEQ permit division. Communication and compliance issues are directly addressed by KEMRON working with the TCEQ Permits Division Project Manager. Responsible to represent the client during TCEQ site inspections and prepares responses and implement corrective measures for any issues identified.

Due Diligence and Environmental Assessments (ESAs), Project Manager; May 2018 to present: Effectively overseen and conducted the implementation of Phase I ESAs, Phase II ESAs, and Transaction Screenings in accordance with ASTM E 1527-21 / 40 CFR Part 312, ASTM 1903-18, and ASTM 1528-22, respectively, as well as other due diligence and redevelopment services, including but not limited to Pre-Construction Assessments, Geotechnical Assessments, and Brownfield Redevelopment Projects. ESA Project activities have involved real estate transactions for various private clients, property owners, and property developers. Additional due diligence applications are provided below:

- **Georgia Hazardous Site Response Act Program (HSRA):** Managed projects associated with the completion of release notifications for properties, which have been impacted by contaminants in exceedance of the State Notification Concentrations (NCs). The preparation of the release notifications includes conducting water receptor surveys, completing RSQM scoring, and effectively communicating with State regulators.

- **Georgia Brownfields Program:** Overseen and conducted the application of properties into the Georgia Brownfields Program in accordance with the Georgia Hazardous Site Reuse and Redevelopment Act. These projects included the preparation of the application documents, including Prospective Purchaser (PP) Corrective Action Plans (CAPs) and Compliance Status Reports (CSRs) in order to receive a limitation of liability for various soil and groundwater contaminants.

- **Federal DOD Due-Diligence:** Managed and conducted multiple combined ECP and Phase I ESA reports for federal properties to satisfy all requirements of ASTM E 1527-13, as well as additional requirements set forth by DOD requirements and ASTM D5746-98. These ESA/ECP projects were to reclass properties so that the DOD could release the land to civilian use via Findings of Suitability to Transfer (FOST) and Findings of Suitability to Lease (FOSL) .

Georgia Power Company, Project Manager; June 2018 to December 2023: Managed a variety of turnkey environmental services for Georgia Power in order to remain in compliance with UST regulations and to facilitate property transactions during Operation Headquarter closures across the State of Georgia. Services have included UST closure, site assessment, soil remediation, site restoration, and reporting activities. Mr. Callihan has provided construction management consisting of crew and equipment mobilization, site preparation, removal and closure of petroleum storage tanks and fueling systems, as well as remediation and restoration, including material removal, over-excavation, and backfill operations. All compliance services were completed and received No Further Action (NFA) approval from the GA EPD.

Hartsfield-Jackson International Airport (HJAIA), Project Manager January 2016 to May 2021: Conducted and overseen multiple projects associated with environmental monitoring, remediation and compliance, and emergency response at HJAIA. Details of selected projects conducted at HJAIA are provided below:

- **Environmental Monitoring and Remediation:** Acted as project manager and field supervisor for multi-phase evacuation pumping and sampling events at multiple petroleum release sites for HJAIA. He is responsible for budgeting and project preparation, subcontractor procurement, field activities, site coordination, and reporting at each site. Following the goal of reaching a No Further Action (NFA) status at a particular release site, Mr. Callihan coordinated site closure and abandonment activities at remediated sites. All monitoring, compliance, and closure is coordinated with Georgia EPD compliance officers.

- **Environmental Compliance AST/UST Systems:** Overseen the proper closure of multiple UST systems formerly associated with the Department and Aviation (DOA). The different fueling systems range in type from single-tank systems for back-up power generators for emergency airport conditions to multiple tank systems used for fleet refueling and aviation equipment testing facilities. Closure methods have included in-place closures, closure by removal, and replacement of underground facilities with an above-ground tank system. As the project manager, Mr. Callihan has taken responsibility for multiple roles in closure projects including both office and field-based supervisory positions. Responsibilities have included subcontractor selection and acquisition, coordinating and overseeing all field work, UST excavation oversite, soil and groundwater sampling, proper backfill and compaction testing, and closure reporting. All UST closure activities are reported to HJAIA and State of Georgia compliance officers.

- **Environmental Emissions Compliance:** Acted as field supervisor and provided reporting assistance to environmental compliance activities conducted at HJAIA. In particular, he has coordinated and conducted air emissions testing and reporting for emergency lighting power systems used in association with airport runway operations. Responsibilities include subcontractor procurement, drafting and revision of emissions testing SSHP, coordination with DOA facilities management and airport towers to control runway lighting systems for testing, data analysis, and reporting.

- **Emergency Response and Remediation:** Coordinated and conducted the field operations of several emergency response and remediation projects. Examples of these projects include sewage line spill responses, maintenance and storm water structure cleanouts, waste characterization and disposal of hazardous and non-hazardous waste, and underground utility line failure release. Responsibilities associated with emergency response include subcontractor procurement and coordination, on-site management of personnel and subcontractors, safety supervision, waste characterization and profiling, and reporting.

Speedway LLC, Project Manager, May 2018 to October 2022: Responsible for all due diligence services for Speedway, including Phase I and Phase II Environmental Site Assessments, Pre-Construction Assessments for new facility development, HSRA Notifications, and applications of properties into the Georgia Brownfields Program, including PPCAPs and PPCSRs. Performed activities associated with due diligence and site remediation services. Responsibilities associated with these activities include groundwater sampling, well installation, soil boring, soil classification and sampling, reporting, site surveying, on-site reconnaissance and figure design and drafting. Provided emergency response services for client facilities in the region, and has overseen clean-up, response, and remediation of multiple releases associated with facility operating activities and facility construction.

Arrow Exterminators, Project Manager; May 2018 to December 2023: Supported Arrow in the improvement and implementation of emergency management plans for spill control of common pesticides and first aid response measures. Additionally, was responsible for setting up and maintaining a network of emergency spill responders in order to create a region-wide coverage area capable of emergency spill management for all Arrow Exterminators operating locations.

Steele Brothers Landfill, Project Manager. December 2018 to April 2019: Managed the investigation of the Steele Brothers Landfill, a HSRA-regulated former landfill in Walker County, Georgia for the Georgia Environmental Protection Division (GAEPD). This project was managed as an FFP through task order award under the Underground Storage Tank & Hazardous Site Response Contract. He oversaw project planning, vendor and subcontractor selection and procurement, oversight of subcontractors, soil and groundwater sampling, and reporting. Mr. Callihan supervised the work of multiple staff scientists onsite and was responsible for site characterization and correspondence to the GAEPD. The approved characterization report and overall project were completed within the requested schedule without exceeding the budget.

US Marine Corps Base Camp Lejeune, Project Manager. September 2017 to May 2018: As Project Manager for this FFP contract for NAVFAC, was responsible for managing all aspects of the project, including budgeting, scheduling, staff and subcontractor oversight, and reporting. The objective of this project was to provide Vegetation Removal, Surface Clearance, and Digital Geophysical Mapping (DGM) for an active 13-acre explosives range (Range G-29) at Camp Lejeune in Jacksonville, North Carolina. Work consisted of UXO-escorted vegetation removal followed by surface clearance of a marsh area with variable ground cover including standing water. Following surface clearance, DGM surveying was completed at the site, with results presented to the client for future remediation.

Anniston Army Depot (ANAD), Project Geologist/Field Supervisor January 2017 to March 2020: Mr. Callihan has acted as Field Supervisor for multiple investigation sites at ANAD, including releases of chromium waste, industrial waste, and petroleum products. As Field Supervisor Mr. Callihan has been responsible for subcontractor acquisition and supervision, monitoring well installation, soil characterization and sampling, and groundwater gauging and sample collection. Additionally, Mr. Callihan has assisted in client interaction, report preparation, and figure and table drafting and support.

Atlanta Housing Authority, Project Geologist/Site Supervisor; June 2016 to May 2019: Mr. Callihan has conducted and overseen field work and reporting for multiple Phase I and Phase II ESAs and Additional Site Investigations at potential housing development sites throughout Metropolitan Atlanta, Additionally, Mr. Callihan has assisted in activities associated with HSRA Notifications and application of assessed properties into the Georgia Brownfields Program.

Georgia EPD Land Protection Branch, Project Geologist; February 2016 to May 2019: Mr. Callihan has performed surface water and sediment sampling, as well as completing a site survey, for an Interim Site Action Plan for Agri-Cycle, LLC. Additional responsibilities at the site have included well installation, groundwater monitoring and sampling, and waste characterization of both fluid and solid waste. As part of this Interim Site Action Plan, Mr. Callihan has also drafted and developed figures and maps for the ongoing project, and assisted with reporting activities.

CHRISTINE HORCH, PG
SENIOR GEOLOGIST

Education
M.S., Hydrogeology, Wright State University, 2001
B.S., Environmental Geology, Ohio University, 1998

Registrations / Certifications / Training
- 2013/ IN: Professional Geologist (Reg. No. 2394)
- 2014/ KY: Professional Geologist (Reg. No. 112241)
- 2024/ TX: Professional Geologist (Reg. No. 15534)
- USACE Construction Quality Construction Mgmt
- ASFE Loss Prevention
- HAZWOPER 40 hr, 8 hr Supervisor; CPR/First Aid
- PSMJ Project Management
- DOT Hazardous Waste Management
- Well Log Interpretation
- Meeting Facilitation
- Public involvement and media relations

Ms. Horch is a hydrogeologist and licensed Professional Geologist with 25 years of experience providing project management and technical support for a variety of environmental site investigations, compliance and remediation projects under several Federal and State regulatory programs including Resource Conservation and Recovery Act (RCRA) Corrective Action and Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) / Superfund, post closure compliance and Coal Combustion Residuals (CCR) rules.

Her experience includes evaluating contaminant migration pathways and characteristics, interpreting contaminant plumes and natural systems, assessing sustainable remedial alternatives, overseeing compliance groundwater monitoring programs, evaluating a variety of statistical approaches, and developing strategies for Alternate Source Demonstrations. Her understanding of geology and hydrogeology comes from experience formulating complex hydrogeologic conceptual site models for sites impacted by chlorinated solvents, metals, light non-aqueous phase liquids (LNAPL) and dense non-aqueous phase liquids (DNAPL) contamination in a variety of settings, including porous media (such as buried valley aquifers), karst, and fractured bedrock, adjacent surface water bodies, and in high and low permeability geologic settings.

Ms. Horch's familiarity with a variety of state-specific and federal regulatory programs has been applied to support project strategy development, litigation assistance, groundwater compliance program development and implementation, vapor intrusion investigations, insitu and exsitu remediation including enhanced bioremediation and natural attenuation studies, community outreach program development and implementation, environmental sustainability footprint evaluations of remediation programs, and geothermal feasibility evaluations. Christine possesses strong project management skills and values working collaboratively with diverse multi-disciplinary project teams to develop strategies and implement creative solutions for complex environmental programs. She serves as the lead author on various technical reports, data and statistical evaluation summaries, proposals, work plans, public outreach documents, and other technical and non-technical correspondence.

SELECTED PROJECT EXPERIENCE

Quality Officer. East Troy Contaminated Aquifer, Troy, OH. **Nov 2024/On-going.** Ms. Horch serves as a quality officer supporting the implementation of a CERCLA Remedial Action involving removal of soil impacted by chlorinated solvents and restoration of an on-site commercial property adjacent to a river and levee, an active railroad and adjacent residential and school neighbors. She supports the development of Plans for fulfillment of regulatory requirements and technical specifications. In this role, Ms. Horch interacts with US EPA, Ohio EPA, US Army Corp of Engineers, City officials and neighboring stakeholders to ensure implementation of work is consistent with the technical specifications. Ms. Horch also serves as the project waste transportation and disposal coordinator for non-hazardous, characteristic non-hazardous, and F-listed waste disposal involving development and implementation of a Waste Management Plan and involved support of an evaluation for Contained-In Determination with Ohio EPA.

Senior Geologist. Former ARMCO Hamilton Plant, New Miami, OH. **Nov 2023/On-going.** As a geologist, Ms. Horch teamed with others to implement a CERCLA Remedial Investigation on this approximately 250 acre proposed National Priority List site. She is a technical advisor for the development and implementation of the Supplemental RI Work Plans and RI Reporting, Field Sampling Plan, and Quality Assurance Project Plan. The project includes evaluation of all impacted media,

including focus on surface water-groundwater interaction with the adjacent Great Miami River in accordance with CERCLA and National Contingency Plan (NCP) requirements. She developed SOPs and oversaw the installation of river stream gages. She regularly interacts with USEPA, the lead agency, and the state regulatory agency, and is involved with negotiating project-specific requirements with the regulators and local stakeholders as it relates to regional groundwater use. As part of the RI process, Ms Horch is supporting updates to the site Hydrogeologic Conceptual Site Model that will be used in the development of site-wide Risk Assessments. She participates in monthly meetings and assists in the preparation of monthly reporting. All environmental data collected have been subject to thorough data review and data validation to ensure the RI provides a complete, accurate and fully defensible assessment of site conditions. Constituents being evaluated include Volatile Organic Compound (VOC), Semi-Volatile Organic Compounds (SVOC), dioxins and furans, metals, and PCBs. The RI is currently being completed, and development of a Feasibility Study will follow.

Quality Technical Oversight. Confidential Client, Residential and Commercial Removal Actions, Middletown, OH. **May-November 2024.** Ms. Horch served as the technical quality oversight personal supporting the implementation of off-site CERCLA Remedial Actions involving removal of soil impacted by PCBs on off-site residential and commercial properties adjacent to an active railroad and waterway. Duties included observation of sub-contractors, field sampling and work oversight, coordinating with laboratories, and overseeing work implementation assuring adherence to technical specifications and applicable permits. Work also included an on-site bat survey for protected species.

Senior Geologist. Confidential Client Melt Plant Pre-Design, Middletown, OH. **July-September 2024.** Ms. Horch was a geologist assisting in the oversight of geotechnical drilling installations, coordination between field sampling crew, the site, laboratory and third-parties, summarizing and interpreting data and producing portions of final reporting including processing soil borings and metric evaluations.

Technical Support. Confidential Client, Industrial Site Inspection and Third-party Sampling Oversight, Middletown, OH. **November 2023-present.** Performs quarterly Barrier Wall and Interceptor Trench inspections including well integrity assessments and water-way walks used to evaluate river, banks, and vegetation and slope stability. These duties include guiding third-party sub-contractors onsite, conducting safety meetings and overseeing all safety measures in the field.

Hydrogeologist / Project Manager. Compliance Groundwater Monitoring Program, Hazardous and Residual Waste Industrial Landfills, OH. **2010-2019**. As the project hydrogeologist and project manager of these projects, managed the implementation of long-term post-closure compliance groundwater monitoring programs, reporting, and regulatory support of units adjacent to surface water bodies. Project duties included the design of monitoring well installations, evaluating groundwater geochemical conditions, statistical analysis of groundwater quality data for detection and assessment monitoring, statistical evaluation reporting, and regulatory negotiations. These project activities also included revising existing groundwater monitoring plans and sampling and analysis plans. She collaborated with a team of geochemists and statisticians develop strategic alternative statistical evaluation methods to accommodate evolving site conditions and to develop approaches for conducting Alternate Source Demonstrations. She was responsible for adherence to the site-client-specific health and safety protocols. The project team worked collaboratively with the client and regulatory agency to promote consensus and a streamlined approach to achieve compliance monitoring obligations.

Project Manager. CCR Compliance Groundwater Monitoring Program, Electric Utility, IN. **2017-2019**. As the project manager, Ms. Horch oversaw her project team to execute a CCR-compliant groundwater monitoring program. These activities include evaluating complex hydrogeologic settings adjacent to various surface water units, developing groundwater monitoring plans for detection and assessment monitoring programs, and support the development of sampling and analysis plans, including evaluating sampling techniques suitable for low-yield bedrock wells. In addition to supporting the design and construction of the monitoring networks, Ms. Horch develops the bid specifications identifying sampling, drilling and analytical laboratory team members.

Hydrogeologist / Project Manager. CCR Compliance Groundwater Monitoring Program, Electric Utility, OH. **2017-2019**. As the hydrogeologist and project manager, Ms. Horch supported hydrogeologic studies performed to address federal unit closure and CCR-compliant groundwater detection and assessment monitoring programs. These activities included the development of site conceptual models for two generating stations with units adjacent to surface water bodies, the design and construction of the monitoring networks, and the technical support to execute the CCR-compliant groundwater monitoring program.

Project Manager. Compliance Monitoring, Electric Utility, NC. **2017-2019.** As the project manager, Ms. Horch collaborates with her project team to develop and execute detailed evaluations of on-site and off-site groundwater data at multiple facilities to evaluate detection- and compliance-monitoring of CCR units. The data are used to evaluate potential impacts to offsite private water supply wells from the managed units. This program includes off-site private drinking water sampling, data evaluation, risk assessment, reporting and strategic litigation support.

Project Manager. Hazardous Waste Management, Manufacturing Facility, Dayton, OH. **2003-2010.** Managed hazardous and non-hazardous wastes generated by field investigations. Responsibilities included characterizing and segregating waste streams, managing the satellite accumulation of hazardous waste, and preparing documents and Toxic Substances Control Act (TSCA) reporting.

Health and Safety Monitoring, Various Sites, Ohio, Michigan and Indiana. 2003-2015. Provided health and safety auditing and oversight during monitoring well installations, construction, sampling and excavation projects associated with a remediation system and environmental test pits. In addition to investigation activities, these projects also involved the construction of watertight high-density polyethylene water lines through impacted soils at an active industrial manufacturing facility. Field activities included monitoring soil and breathing space with a photoionization detector, flame ionization detector, and Dräger Pump.

Project Manager. Crisis Management Planning, Cleveland Cavaliers Operating Company, Cleveland, OH. **2003-2004**. Assisted in evaluating the Emergency Response and Crisis Management Plans and identifying gaps relevant to applicable standards and codes.

Project Manager. Brownfield/Streamlined RCRA Corrective Action, Automotive Parts Manufacturing Facility, Dayton, OH. **2001-2010.** Project manager supporting a hydrogeologic investigation of a brownfield site impacted by volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), and LNAPL. The inactive facility lies above a federally designated Sole Source Aquifer and is adjacent to the confluence of two rivers. Work conducted under USEPA Region 5 oversight. Responsibilities included the design and implementation of a monitoring well installation and laboratory analytical program to characterize hydrogeology and contaminant distribution from multiple sources areas. Responsibilities also included project management and cost estimating; supporting work plan development of facility-wide RCRA investigations and supervising multiple field investigations; evaluating hydrogeologic flow patterns; and presenting at meetings with USEPA, State Regulators, and local government officials. During this work, collaborated with academic researchers at the University of Waterloo to use isotope analyses to identify potential sources of off-site groundwater contamination.

As a team member, supported the evaluation and preparation of USEPA Corrective Action Human Health and Environmental Indicators Report and RCRA Facility Investigation Report and assisted with a Corrective Measures proposal to identify options for final corrective measures and/or institutional controls and closure status. Technical analyses included characterization of the complex glacial aquifer system, groundwater/surface water interaction, formulation of conceptual site models, monitoring and evaluating effectiveness and efficiency of an existing LNAPL recovery system and assisting LNAPL stability and mobility assessments. Additional tasks include interpreting data using API LNAPL Mobility Model, Surfer, and AutoCAD and producing large data release packages and reports.

Project Manager / Hydrogeologist. Off-site Contaminant Migration, Former Manufacturing Facility, IN. **2005-2018**. Serving as a project manager and hydrogeologist, Ms. Horch lead a multi-disciplinary team to

conduct a third-party review of the proposed technical strategy at a VOC-impacted site led by Indiana Department of Environmental Management (IDEM). The proposed strategy relied on ongoing soluble amendment injection to enhance bioremediation and invasive off-site vapor intrusion sampling. Our team concluded, with IDEM agreement, that these steps were not necessary to evaluate exposure risks. The outcome of this work presented a new strategy to address potential concern of exposure pathways of vapor intrusion, groundwater stability and drinking water that expedited project milestones toward site closure. These activities included shallow groundwater sampling, natural attenuation demonstration, earning the plume stability (CA-750) designation, and conducting off-site drinking water sampling/mitigation.

Project Manager / Technical Advisor. Off-site Contaminant Migration Investigation, Various Sites, OH, IN, and MI. **2003-2010**. As a project manager and technical advisor, assists and supports off-site contaminant migration investigations near industrial manufacturing sites. Develops and manages investigations of neighboring property groundwater use, indoor air and vapor intrusion assessments, and community outreach programs for off-site commercial businesses, schools, residents, and municipalities. Manages environmental testing to investigate geochemical and microbial community populations for in situ reductive dechlorination potential using Compound Specific Stable Isotope Analysis at sites impacted with chlorinated solvents. Serves as the primary technical lead with teams conducting door-to-door private well sampling and meeting with residents and government agencies to present and explain the results. Provides technical support for regulatory negotiations with state and federal agencies.

Project Manager / Hydrogeologist. Litigation Support for Former Aerospace Manufacturing Facility, OH. **2012-2019**. As project manager and hydrogeologist, Ms. Horch is responsible for developing a hydrogeologic conceptual model including co-mingled plume investigations to support client negotiations with the state Attorney General. These activities include a review of historic on-site operations and investigations, records related to an ongoing large Superfund vapor intrusion investigation adjacent to the site, and the development and implementation of targeted investigation work plans with same-day analytical results to support strategy development for Corrective Action Order negotiations.

Hydrogeologist / Hydrogeologist. Litigation Support for Former Dry Cleaner, OH. **2015-2019**. Responsible for the third-party review of a hydrogeologic and fate and transport of a co-mingled vapor intrusion investigation. Supports the evaluation of chlorinated solvent distribution in groundwater and indoor air.

Hydrogeologist. Confidential CERCLA Site, Northeast OH. **2015-2019**. In support of remedial investigation/feasibility study, performed hydrogeologic assessments for a new regulatory team with consideration of both site-wide and unit by unit hydrogeologic conditions. The support included monitoring well networks and surface/ground water interaction assessments and work plan updates.

Project Manager. RCRA Corrective Action, Industrial Manufacturing Facility, Kentucky. **2015-2019.** Served as a project manager and hydrogeologist as the key point of contact with the Kentucky Department of Environmental Protection. Ms. Horch supported hydrogeologic investigations of a VOC-impacted site with multiple sources and commingling with neighboring plumes. Her responsibilities included strategic regulatory support, work plan development, monitoring well installation, source area evaluation, groundwater and indoor air vapor sampling programs both on and off-site, reporting, and litigation support.

Project Geologist. Streamlined RCRA Corrective Action, Various Manufacturing Facilities, IN, OH, and MI. **2002-2019**. Project geologist involved in environmental investigations for RCRA Corrective Action at large industrial facilities. Responsibilities included characterizing soil, hydrogeologic and environmental conditions and identify the presence and magnitude of releases to the environment through field investigations. Specific responsibilities included coordinating and overseeing overburden and rock coring for monitoring well installation in or near LNAPL and DNAPL areas, test boring, test pits, sampling soil, groundwater, spring, surface water, and surface sediment, well development, and slug testing. Oversaw and supervised the monitoring well installation programs, including conventional drilling techniques, wire-line rock coring, Geoprobe® direct-push and sonic drilling methods and telescoping-casing well

constructions. Voluntary Action Program (VAP), Former Automotive Manufacturing Facility, Ohio. Project support of Phase 2 and 3 site investigations and remedial action under the Ohio VAP program. One site received No Further Action approval from Ohio EPA.

Program / Project Manager. RCRA Corrective Action, Automotive Parts Manufacturing Facility, Kokomo, IN. **2005-2017**. Leading a large team as program/project manager for a confidential client's first Voluntary Performance-Based RCRA Corrective Action in Indiana at a site impacted by co-mingled chlorinated solvent plumes, DNAPL, and PCBs.

Hydrogeologist / Geologist. Automotive Parts Manufacturing Facility, Dayton, Ohio. **2002-2005**. Responsible for Ohio EPA-led groundwater monitoring program designed to fulfill requirements of post-closure permits of a hexavalent chromium waste system at an active facility. Assisted in work plan development and ensured compliance with the Sampling and Analysis Plan and the Quality Assurance Project Plan, including a review of laboratory and field monitoring quality assurance/quality control data. Also responsible for overseeing field investigations and evaluating groundwater quality data and report preparation. Provided emergency response to a solvent spill at the facility to their stormwater sewer system. Performed surface and groundwater investigations to determine the nature and extent to the environment. Responsibilities included groundwater investigation, oversight, data review and interpretation, contractor bidding, health and safety monitoring and development, analytical report writing and client interaction.

Project Scientist. Former Automotive Parts Manufacturing Facility, Ohio. **2001-2003**. Served as project onsite coordinator overseeing construction activities during sheet pile barrier wall installation along a river levee, a 48-inch water main, and beneath an overhead railroad. The barrier wall was installed as an Interim Measure for a LNAPL migration. Responsibilities included vibrating wire piezometer and geophone monitoring, construction and excavation supervision, compacted fill placement, health and safety monitoring and development, RCRA hazardous waste management, and Toxic Substance Control Act and as-built reporting.

Project Scientist, Confidential Client, Water Tower, Kettering, Ohio. **2002**. Served as on-site geologist providing geotechnical oversight of construction activities of a water tower in a residential neighborhood.

EMPLOYMENT HISTORY

KEMRON Environmental Services, Senior Geologist, 2023-present
1913 Media Group, Environmental Advisor, 2021-2023
Exhale Yoga, Instructor/Facilitator, 2021-present
Ignite Yoga, Business Administrator/Accounts Manager, 2020-2022
Haley & Aldrich, Inc., Senior Hydrogeologist/Project Manager, 2001-2019
University of Dayton, Adjust Instructor, 2000-2001
Miami University, Teaching Assistant, 1999-2000
Wright State University, Teaching Assistant 1998-2001

EVAN T. AMICK, LRS
STAFF GEOLOGIST/PROJECT MANAGER

Education
BS, Geology, West Virginia University, 2013

Registrations / Certifications / Training
- 40-Hour OSHA Hazardous Waste 29 CFR 1910.120
- 8-Hour OSHA Refresher Course 29 CFR 1910.120
- 30-Hour OSHA Construction Safety and Health
- 8-Hour HAZWOPER Supervisor 29 CFR 1910.120
- WVDEP Licensed Remediation Specialist #494
- Virginia Licensed Professional Geologist #002571
- Level I Antiterrorism Training
- OPSEC Awareness for Military Members, DoD Employees and Contractors
- USACE and NAVFAC Construction Quality Management for Contractors #784
- American Red Cross Adult First Aid/CPR/AED
- OSHA Bloodborne Pathogens 29 CFR 1910.1030
- HIPAA Compliance Training 45 CFR 160 and 164
- WV Asbestos Inspector License # AI007896
- WV Class B UST Worker #B2122
- WV Class S Wastewater Operator #WVOP30849
- WV Class H Wastewater Operator #WVOP30849
- WV Certified Monitoring Well Installer # WV00671

Evan Amick is an experienced Staff Geologist and Project Manager with understanding of regulatory programs on both state (West Virginia, Kentucky, Ohio, Virginia, Maryland, and Indiana) federal levels. Mr. Amick's specialties include site investigation, remediation, report preparation, and management of multi-project portfolios for private and federal clients. Mr. Amick is responsible for direction, preparation, scheduling, and implementation of health and safety practices and field activities at several Underground Storage Tank (UST), Aboveground Storage Tank (AST), Voluntary Remediation/Brownfields sites, National Pollutant Discharge Elimination (NPDES) Permit, Title V and R-13 Operating Permit, and Wastewater Treatment Plant (WWTP) facilities in West Virginia, Ohio, Pennsylvania, and Virginia. Mr. Amick has extensive experience in coordination and evaluation of site assessment and remediation of adsorbed, dissolved, LNAPL, DNAPL, and vapor-phase impacts at Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and Leaking Underground Storage Tank (LUST) facilities. Mr. Amick has a great working relationship with several West Virginia Department of Environmental Protection (WVDEP), Ohio Environmental Protection Agency (Ohio EPA), Ohio State Fire Marshal Bureau of Underground Storage Tank Regulations (BUSTR), and United States Environmental Protection Agency (USEPA) regulatory contacts.

Mr. Amick is responsible for management and preparation of the KEMRON WV office reporting caseload, which includes, but is not limited to: Phase I and Phase II Environmental Site Assessment (ESA) reports, Voluntary Remediation Program (VRP) and Uniform Environmental Covenants Act (UECA) Site Assessment Reports, WVDEP Division of Air Quality (DAQ) Title V Operating Permit Monitoring Reports and Compliance Certifications, LUST Site Investigation Reports, Ohio State Fire Marshal Bureau of Underground Storage Tank Regulations (BUSTR) Site Investigation Reports, NPDES Permit Discharge Monitoring Reports (DMRs), Monitoring Well Abandonment Reports, UST and Piping Closure Reports, AST Closure Reports, Corrective Action Plans, Asbestos Inspection Reports, and Spill Prevention Control and Countermeasure (SPCC) Plans.

Mr. Amick has specific experience with risk-based corrective action and remedial design including the use of contaminant fate and transport modeling and development of site-specific target levels. Field responsibilities include RCRA, CERCLA, and LUST field investigation; Health and Safety Plan (HASP) development and implementation; remedial action implementation; remedial injection; installation and operation of vapor and groundwater treatment systems; monitoring well installation; UST closure; groundwater, surface water, soil, and air sampling; WWTP installation, assessment, operation, and maintenance; and asbestos inspection. Mr. Amick has extensive experience conducting Phase I and Phase II ESAs in several states for a multitude of private clients to assist clients with real estate transactions and due diligence. Mr. Amick currently serves as a Licensed Remediation Specialist under the West Virginia Voluntary Remediation and Redevelopment program and possesses extensive experience with risk-based assessment and remediation.

Project Manager/Licensed Remediation Specialist, UECA, VRP, and USEPA Brownfields Programs, Multiple Facilities:
Serving as Project Manager for a number of facilities currently under the West Virginia Department of Voluntary Remediation, Environmental Protection Uniform Environmental Covenant Act, and USEPA Brownfields Redevelopment programs. Responsible for coordination of field activities, evaluating risk-based corrective action, and remedial evaluation including the use of fate and transport modeling and development of site-specific target levels, field investigation coordination, Site Assessment Report preparation, Risk Assessment and Data Validation coordination, remedial soil excavation coordination, and Land Use Covenant implementation and inspection.

Staff Geologist/Site Supervisor, RCRA Corrective Action, Multiple Facilities:
Serving as Staff Geologist for a number of facilities currently under the Resource Conservation and Recovery Act Corrective Action Program. Responsible for field investigation coordination, data evaluation, subcontractor coordination, sample custody, and client and regulatory correspondence. Has assisted with Remedial Investigation (RI) and Data Summary reports for numerous sites.

Project Manager/Site Safety and Health Officer, BOS 200® Injection, Multiple Facilities (West Virginia):
Serving as Project Manager and Site Safety and Health Officer for numerous injections utilizing BOS 200® Carbon Trap and Treat Technology as a method of corrective action for subsurface releases of petroleum contaminants continuously from 2018 to present. Responsible for HASP development and implementation, site investigation, remedial action design, project direction, budgeting, development of work scope, project scheduling, compliance and correspondence, and field implementation. Activities conducted as part of BOS 200® injections include the implementation of a Remedial Design Characterization, analysis of multiple soil and groundwater samples throughout the vertical and horizontal extent of the areas of impact, injection design and high-pressure injection of BOS 200®, microbial inoculations and nutrient supplements.

Project Manager/Site Safety and Health Officer, UST Facilities (West Virginia and Ohio):
Serving as Project Manager and Site Safety and Health Officer for a number of active and former retail petroleum facilities currently under the West Virginia Department of Environmental Protection Leaking Underground Storage Tank program and the Ohio State Fire Marshal Bureau of Underground Storage Tank Regulations program. Has assisted with and/or been responsible for HASP development and implementation, project direction, budgeting, development of work scope, project scheduling, compliance and correspondence at several sites in West Virginia and Ohio continuously from 2018 to present. Also responsible for field investigation and coordination, sample custody, client and regulatory correspondence, LNAPL Recovery Report preparation, Site Investigation Report preparation, Corrective Action Plan preparation, Corrective Action Implementation Report preparation, Discharge Monitoring Report preparation, Groundwater Monitoring Report preparation, UST Closure Report preparation, and Monitoring Well Abandonment Report Preparation for numerous facilities throughout West Virginia and Ohio.

Site Supervisor/Task Manager, AST and UST Facilities (West Virginia, Ohio, and Virginia):
Serving as Site Supervisor/Task Manager for a number of active and former UST and AST facilities including U.S. Army Corps of Engineers (USACE) projects under Performance Based Acquisitions (PBAs). Responsibilities included field investigation, AST and UST closure oversight, assistance with preparation of the Project Management Plan, Work Plans (including the Sampling and Analysis Plan (FSP and UFP-QAPP), Accident Prevention Plans, Storm Water Control/Storm Water Management Plans,

Waste Management Plans. Was also responsible for Site Investigation, AST Closure, and UST Closure Reports following field activities.

Project Manager/Site Safety and Health Officer, WWTP Operation Portfolio (West Virginia):
Serving as Project Manager for a number of wastewater treatment plant facilities. Actively manages operation, maintenance, and site health and safety at a total of 13 West Virginia WWTP sites from 2015 to present. Activities include management of weekly operation and maintenance of operating components and effluent water quality monitoring, Health and Safety Plan development and implementation, work plan preparation, client and contractor coordination, eDMR preparation, regulatory correspondence and coordination of quarterly compliance monitoring events. Has assisted with keeping facilities in compliance with NPDES Permit monitoring requirements for eight (8) years.

Task Manager, WVDEP Industrial NPDES Permit Management and Reporting, NPDES Permit Portfolio (West Virginia):
Serving as Task Manager for all activities associated with Industrial NPDES Permit Management and Reporting for numerous sites in West Virginia. Responsibilities include assistance with facility compliance with NPDES Permit procedures, NPDES Reissuance Application preparation and submittal, HASP implementation, preparation of Discharge Monitoring Reports, client and regulatory coordination, implementation of field and sampling procedures, development of work scope, project scheduling, and compliance and correspondence in accordance with NPDES Permit requirements.

Project Manager/Site Safety and Health Officer, WVDEP LUST Investigation and Sodium Persulfate Injection, Par Mar Facility #140 (West Virginia):
Serving as Project Manager and Site Safety and Health Officer for investigation and in-situ injection of a sodium persulfate-based catalyst as a method of corrective action for subsurface release of petroleum contaminants continuously from 2019 to present. Responsible for HASP implementation, site investigation, remedial action design, project direction, budgeting, development of work scope, project scheduling, compliance and correspondence, and field implementation. Also responsible for preparing the Corrective Action Plan (CAP), Rule Authorization, Corrective Action Implementation Report, and submittal of documents to the applicable regulatory authority.

Project Manager, WVDNR WWTP Assessment and Monitoring, West Virginia State Parks:
Serving as Project Manager for West Virginia Division of Natural Resources (WVDNR) contract for Wastewater Treatment Plant Assessment and Monitoring activities at 23 State Parks in West Virginia. Responsible for HASP implementation, assessment and monitoring of 23 wastewater treatment plants, review of Discharge Monitoring Reports with WVDNR personnel, client and regulatory coordination, project direction, budgeting, development of work scope, project scheduling, compliance and correspondence, and field implementation in accordance with contract requirements. Also responsible for preparation of contract required deliverables including inspection checklists, field documentation, and Quarterly Reports of Plant Operations.

Primary Instructor and Training Course Coordinator, WVDNR WWTP Annual Training of WWTP Operators, West Virginia State Parks:
Serving as Primary Instructor and Training Course Coordinator for West Virginia Division of Natural Resources (WVDNR) annual training of WWTP operators. The objective of WVDNR annual operator training is to fulfill continuing education requirements necessary for park WWTP operators to retain operator certifications. In order to operate WWTPs at West Virginia State Parks in accordance with state regulations, WWTP operators are required possess the operator certification relevant to the design flow of each facility, which ensures West Virginia State Parks remain open to the public and continue to generate revenue for the state. Responsible for: providing training course technical and regulatory references, training materials, and presentations to encompass a six (6)-hour timeframe; coordination with WVDNR

and other training course presenters; and providing four (4) to five (5) hours of technical instruction on topics including WWTP construction and designs, WWTP operation and maintenance, regulatory compliance, and corrective measures. WVDNR annual operator training is conducted by Mr. Amick in in-person seminar format in front of an auditorium containing between 100 and 110 WVDNR operator and supervisory personnel who serve as engineers, superintendents, and WWTP operators for 23 State Parks in West Virginia.

Project Manager, IDEM Leaking UST Section, Office of Land Quality Release Investigation and Remediation, St. Mary Medical Center, Hobart, Indiana:
Serving as Project Manager for investigation and remediation of a release of diesel fuel at St. Mary Medical Center. Responsible for HASP implementation, site investigation, remedial action design, management and installation of an automated free product recovery system, management and coordination of pond sediment removal activities, project direction, budgeting, development of work scope, project scheduling, compliance and correspondence, and field implementation. Also responsible for preparation of quarterly corrective action and groundwater monitoring reports, regulatory and client correspondence, and implementation of field procedures for automated free product recovery system operation and groundwater monitoring activities.

Site Supervisor/Task Manager, AST Closure (West Virginia, Ohio, and Virginia):
Served as Site Supervisor/Task Manager for all activities associated with the assessment and closure of two (2) aboveground storage tank (AST) systems located at Buildings 29 and 447 in Joint Base Myer – Henderson Hall, Arlington, Virginia. All work was being conducted on behalf of the U.S. Army Corps of Engineers (USACE), Baltimore District as part of a Fixed Priced Remediation (FPR) project under a Performance Based Acquisition (PBA). The Task/Delivery Order (TO) for activities was issued under KEMRON's Multiple Award Environmental Services (MAES) Contract and included provisions for the removal of contents from each two (2) ASTs, cleaning of each AST, cutting and removal 300-gallon AST in basement of Building 29, removal of 2,000-gallon AST adjacent to Building 449; capping of piping for AST related components, soil sampling and groundwater sampling (if necessary), site restoration at the AST removal locations. Mr. Amick facilitated the preparation of the Project Management Plan; the Work Plan (including the Sampling and Analysis Plan (FSP and UFP-QAPP), the Accident Prevention Plan, Storm Water Control/Storm Water Management Plan and Waste Management Plan); and the AST Closure Report following activities. Additionally, Mr. Amick coordinated all field activities for the project.

Staff Geologist, RCRA Facility Investigation, Cleveland Cliffs Steel (Ohio):
Serving as Staff Geologist for Expedited RCRA Facility Investigation (RFI) at Cleveland Cliffs Steel in the area of former metals slag processing operations. Responsible for supervision, field coordination, and oversight during investigation including advancement of 24 environmental soil borings and installation of five (5) groundwater monitoring wells. Responsible for ensuring investigation activities were conducted in accordance with project specifications, supervision of soil boring and groundwater monitoring well installation, processing and sampling of site media, soil boring log preparation, and direct communication of field activities with the Project Manager. Assisted with Remedial Investigation (RFI) and Data Summary reports at the conclusion of field activities.

Staff Geologist, Calcium Polysulfide Injection, Smokey Mountain Smelter:
Served as Staff Geologist for in-situ groundwater injection of a calcium polysulfide solution at Smokey Mountain Smelter Site in Knoxville, Tennessee as a method of remedial action for subsurface metals contamination. Assisted with field coordination and implementation pursuant the EPA-approved RAWP, client and regulatory correspondence, RAWP preparation, and remediation injection system operation and maintenance.

Staff Geologist/Task Manager, Title V and R-13 Operating Permit Management and Reporting, Charleston Area Medical Center:
Serving as Staff Geologist and assisted with project management for activities associated with Title V and R-13 Operating Permits in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 C Requirements for Operating Permits. Primary responsibilities include preparation and submittal of Semi-Annual Title V Monitoring Reports, Annual Compliance Certifications, Permit Modifications, Annual Emission Inventory, Permit Reissuance Applications, Medical Waste Incinerator Data Summaries, and Incinerator Fly Ash and Bottom Ash Data Summary and Waste Profile Renewal Applications. Also responsible for client and regulatory correspondence and coordination of field activities.

Field Geologist, Site Supervisor, Supplemental RI, Former ARMCO Hamilton Plant Site, New Miami, Ohio:
Serving as Field Geologist and Site Supervisor for Supplemental Remedial Investigation (RI) at the Former ARMCO Hamilton Plant Site in New Miami, Ohio. Supplemental RI field activities involved installation of nested groundwater monitoring wells to evaluate shallow, intermediate, and deep groundwater aquifers. Responsible for aquifer characterization in the field; soil classification and field documentation; determination of monitoring well placement and configuration; coordination with Ohio EPA, USEPA, and City of Hamilton stakeholders; subcontractor instruction and supervision; supervision with KEMRON field staff; and supervision of installation of nested groundwater monitoring wells. Responsibilities included ensuring investigation activities were conducted in accordance with project specifications, supervision of soil boring and groundwater monitoring well installation, coordination with relevant stakeholders, and direct communication of field activities with the Project Manager/Vice President.

Field Geologist/Site Supervisor, Technology Evaluation, Fike Artel Superfund Site, Nitro, WV:
Serving as Field Geologist for Technology Evaluation at Fike Artel Superfund Site in Nitro, WV. Responsible for supervision, field coordination, and oversight during investigation including soil boring installation, piezometer installation, and collection of grab groundwater samples using direct-push technology. Responsible for ensuring investigation activities were conducted in accordance with project specifications, coordination with regulators and stakeholders, soil classification, supervision of soil boring and piezometer installation and collection of direct-push grab groundwater samples, processing and sampling of site media, soil boring log preparation, and direct communication of field activities with the Project Manager.

Task Manager, Vienna PCE Superfund Site, Vienna, West Virginia:
Serving as Task Manager for groundwater and vapor sampling and remediation system operation and maintenance under WVDEP Office of Environmental Remediation (OER) Contract DEP2500000022. Responsible for field procedure and work scope implementation in accordance with contract and regulatory requirements, client and regulatory coordination, supervision and coordination of air sparge and soil vapor extraction system operation and maintenance, and direct coordination with the project manager. Also responsible for data evaluation; preparation of semi-annual system operation reports; semi-annual groundwater and vapor sampling reports; weekly, monthly, quarterly, and semi-annual O&M reports; regulatory and client correspondence; and participation in client and regulatory meetings.

EMPLOYMENT HISTORY

Staff Geologist, KEMRON Environmental Services, Inc., Poca, WV, January 2015 to Present

Environmental Technician, Potesta & Associates, Inc., Charleston, WV, January 2013 to January 2015

Christopher G. Hedrick
Site Supervisor/Project Manager

Christopher Hedrick serves as a Site Supervisor and Project Manager for KEMRON Environmental Services, Inc. (KEMRON) and is located in the Charleston, West Virginia office. As the Site Supervisor Mr. Hedrick is responsible for emergency response and implementing field activities at several retail petroleum facilities and industrial sites. His responsibilities include oversight and implementation of groundwater monitoring, installation and operation/maintaining remediation systems, installation and abandonment of groundwater monitoring wells, underground storage tank (UST) removal and underground injection for site remediation. Mr. Hedrick serves as a Project Manager for nine (9) wastewater treatment facilities.

EDUCATION

High School Diploma, Winfield High School, 2001

CERTIFICATIONS

OSHA 40-Hour Hazardous Waste Training
OSHA 8-Hour Refresher Hazardous Waste Training
Certified Hazmat Technician Training, 2012
Driver's Transportation Training and Logistics, June 2013
WV BPH, Class H Wastewater Operator; Certification # WVOP30471
WV BPH; Class S Wastewater Operator; Certification # WVOP30471
WV Well Driller License Cert# WV00573
WV UST Class B License #B971

Mr. Hedrick received his WV Well Drillers Certification in February of 2016 and received his WV UST Class B License in April of 2018.

EXPERIENCE

Environmental Field Technician

Mr. Hedrick has served as an environmental field technician for approximately 13 years. He has served as a field technician on more than (50) projects involving soil and groundwater remediation system operation and maintenance for retail petroleum facilities in West Virginia, Kentucky, and Ohio. Mr. Hedrick has also performed oversight with emergency response activities. Mr. Hedrick is additionally the primary transporter and operator of KEMRON's mobile treatment units (MTUs). Mr. Hedrick has conducted oversight and sludge/water sampling of manhole clean outs for utility companies. Mr. Hedrick has also conducted oversight of heavy equipment operation on multiple excavation sites including gasoline, diesel, used oil, PCB's, and hydraulic oil. Site supervisor for private client Pennsylvania Ave, Charleston WV. Managed on site activities for soil cleanup including sampling, excavation, soil boring, manifesting contaminated soil for disposal, and backfill of open excavation. Staff included (2) Operators, (1) Mobile Lab Technician, (2) Well Drillers, and (15) Truck Drivers.

Mr. Hedrick has approximately 12 years' experience with the installation and O&M of groundwater remediation systems, including groundwater pump and treat, dual-phase high vacuum extraction (DPHVE), air sparge/soil vapor extraction (AS/SVE), biosparging, and pump & treat/SVE systems. Mr. Hedrick has experience in soil and groundwater remediation system installation, remediation system troubleshooting, remedial pilot testing including vacuum extraction and air sparge pilot testing, aquifer pump tests, and rising head tests. Mr. Hedrick also has experience with installation and sampling of groundwater monitoring wells and soil vapor extraction wells. Mr. Hedrick has approximately 9 years' experience in training, supervising, and serving as the team leader for KEMRON and contractor's employees on groundwater remediation system installs/operation, in-situ remedial injections, soil excavation, drilling/Geoprobe operation and multi-media sampling programs.

WWTP Operator

As a WWTP Project Manager, Mr. Hedrick provides training, guidance and troubleshooting knowledge to WWTP field technicians on plants ranging in size from home aeration units to units treating greater than

50,000 gallons per day. Mr. Hedrick conducted all WWTP activities including O&M and coordinated sampling events up until 2017 at which time he was assigned to train and provide oversight of site activities being conducted by others.

Well Driller

Mr. Hedrick has Installed and/or abandoned wells on approximately (50) sites. Mr. Hedrick has performed oversight of subcontractors on monitoring well installation and abandonment sites. Mr. Hedrick was the site supervisor for private client Morgantown WV. Managed (2) subcontracted Well Drillers for (9) soil borings and conducted sampling activities. Mr. Hedrick serves as the drilling team leader during activities to ensure that activities are conducted safely and in accordance with Site Specific QA/QC and Sampling Plans.

BOS Injection Trailer Operator

Mr. Hedrick has assumed the role of the primary BOS Injection supervisor, for the last 9 years. Mr. Hedrick attended a training session with AST Environmental on the operation of the Injection trailer. He has successfully operated the Injection trailer on (17) retail petroleum sites leading an injection team consisting of up to (5) KEMRON personnel. Mr. Hedrick was the supervisor and operator of the BOS Injection trailer for a private client located in Princeton WV, in January 2022. The injection team consisted of (2) KEMRON Drillers, and (1) field technician.

UST Class B

Mr. Hedrick has performed direct oversight of subcontractor safety, and UST removal activities on approximately (35) UST sites as of April 2025. Tanks removed include gasoline, diesel, used oil, and heating oil. Mr. Hedrick conducted UST removal oversight on a private client project in Hurricane WV, in July of 2022. The project consisted of (6) UST removals. Staff included (2) equipment operators, (3) tank removal and clean out personnel, and a truck driver.

Field Sampling Team Leader

Mr. Hedrick has been assigned and functions as the KEMRON Field Sampling Team Leader on soil and groundwater sampling activities at a former Chemical Plant Superfund Site. For the past 11 years, activities have included low-flow sampling of a large groundwater monitoring well network, surface water sampling with flow measurements, and the installation of soil borings for soil and groundwater sample collection. Duties include daily operation, calibration and use of field screening instrumentation such as organic vapor analyzers, combustible gas indicators, toxic gas meters, and pH/Conductivity meters.

Remediation Operation and Maintenance

Mr. Hedrick led and coordinated the operation and maintenance on a soil vapor/groundwater extraction remediation system at the WVDEP Vienna PCE Superfund site for 3 years. Mr. Hedrick operated the system, provided oversight or daily O&M conducted by (2) Field Technicians and coordinated groundwater monitoring events.

Emergency Response and Remediation

Mr. Hedrick has provided oversight and coordinated numerous emergency responses and the cleanup of clean-up of hazardous substances, oil and other contaminants or pollutants over the last 13 years at facilities ranging from retail petroleum stations to industrial facilities. Mr. Hedrick's responsibilities were

to assist in installation and implementation of response activities including response and event assessment; source identification and discontinuation; response planning; oversight and implementation of spill remediation. Mr. Hedrick also served as KEMRON's heavy equipment operator, labeled proper shipping containers, determined correct shipping labels and hazardous waste marks on containers, assigned hazard class, group and proper shipping name to the wastes, waste profiling, transportation, and disposal, as needed.

Staff Scientist

Mr. Hedrick is responsible for technical report preparation including the documentation of site remediation and investigations, data evaluation, day-to-day summaries of site operations, and recommendations for supplemental activities. Mr. Hedrick has prepared Phase I ESAs, Phase II and Site Investigation Reports, Underground Storage Tank Closure Reports, Above Ground Storage Tank Closure Reports, Groundwater Monitoring Reports, Emergency Response Completion Reports, Discharge Monitoring Reports and Remedial Action Completion Reports. Mr. Hedrick also assists in Cost Estimate preparation, project budget tracking and daily scope completion/budget tracking.

AST

Mr. Hedrick has experience with Above Ground Storage Tank compliance monitoring as well as removal activities on approximately eight (8) sites as of April 2025. Tanks removed include gasoline, diesel, used oil, and tar. Mr. Hedrick has conducted mechanical integrity compliance testing and inspections of two (2) industrial storage facilities and will be receiving further training to expand his capabilities in future months.

EMPLOYMENT HISTORY

KEMRON Environmental Services, Inc., Poca WV, 4/2012 to present.

Bosley Rental and Supply, Cross Lanes WV, 3/2007 to 4/2012

West Virginia Army National Guard, Huntington WV, 12/2002 to 12/2010

HARRISON LUCKEYDOO, GEOLOGIST- IN TRAINING/ STAFF SCIENTIST

Mr. Luckeydoo brings two years of experience with surface water/soil/ground water sample collection, data evaluation, cross section/potentiometric contour map drafting, and permit/ plan drafting.

He received his GIT certification in November of 2022, and has overseen multiple monitoring well installations and soil borings. He has successfully lead multiple field investigation efforts.

Education
BS, Earth Sciences, The Ohio state University, 2022

Registrations / Certifications / Training
- Licensed Geologist-in Trianing, Kentucky, expires 2024
- OSHA 40-hour Health & Safety with Annual 8-hour Refresher, July 2022
- OSHA 10-hour Construction Safety and Health, July 2022
- JS-US007 Level I Antiterrorism Awareness Training
- Adult and Pediatric American Red Cross First Aid / CPR / AED (expires Feb. 2026)

SELECTED PROJECT EXPERIENCE

Staff Scientist, General James M. Gavin Power Plant, Cheshire, OH. August 2022 to present. Field investigation activities including ground water level gauging and evaluation, groundwater chemical parameter measurement using a YSI, groundwater sampling involving the use of low-flow and multi-volume purge methods, as well as Snap Samplers. April 2023 to present, involved in daily 3rd party investigations, performing grab sampling and testing of water from landfill water clarifiers and other water treatment units.

Staff Scientist, Solvay Specialty Polymers, Marietta, OH., Jul. 2022- Present. Field investigation activities include site-wide ground water level monitoring and evaluation, as well as low-flow ground water sampling with chemical parameters measured with a YSI. Mr. Luckeydoo also provides support to ground water treatment systems at Cytec, managed by Solvay. Field investigations involve site wide water level monitoring and evaluation. Operations and maintenance activities include general groundskeeping, cleaning various parts of the treatment system, and ensuring proper operation overall.

Staff Scientist, Kraton Chemical, LLC, Marietta, OH. Jul. 2022- Present. Field investigation activities include site-wide ground water level monitoring and evaluation, as well as low-flow ground water sampling with chemical parameters measured with a YSI.

Staff Scientist, Westlake Chemical, WV. Sept. 2022 to present. Field investigation activities included groundwater level measurements, soil sampling, groundwater sampling using multi volume methods with bladder/peristaltic pumps, groundwater chemical parameter measurement using a YSI.

Staff Scientist/ Geologist, Former Armco Steel Hamilton Site, Lima, OH. Oct 2022 to present. Field investigation activities included groundwater level measurements, soil sampling, groundwater sampling using low-flow methods with bladder/peristaltic pumps, groundwater chemical parameter measurement using a YSI, and drilling oversight for the installation of groundwater wells, with core and PID logging. After field activities were completed, drafted potentiometric surface maps.

Various support for 2022 Data Summary Report, including editing, working on Responses to EPA comments, and drafting Contaminant of Concern Isocontours. Supported drafting 2024 Hamilton Work Plan, activities including document editing and drafting of a Site Specific Standard Operating Procedure for Installation and Maintenance of Groundwater Monitoring Wells.

Staff Scientist, Red River Army Depot, New Boston, TX. Nov. 2022-present. Updating the SSHP and APP Western Industrial Area Interim Corrective Measures. Actions performed include working to include new AHA's to tackle new scope of the project, ensuring that all information was up to date, and communications with PMs and the Corporate Health and Safety Director to ensure that the documents were being drafted correctly. Field investigation activities including ground water level gauging and evaluation, groundwater chemical parameter measurement using a YSI, groundwater sampling involving the use of low-flow, performing LNAPL extraction, and performing slug tests to gather data on subsurface

hydrogeological conditions, oversight of drilling involving Membrane Interface Hydraulic Pressure Tooling (MIHPT) in order to better define PMZ at OTC landfill site. In the 2024 annual groundwater monitoring event, he sufficiently lead the KEMRON field team, coordinating with the Leisnoi field team lead to ensure project requirements were completed in a timely manner.

Staff Scientist, Lima Refining Co., Lima OH. Jan-Feb, 2023. Various work done on the 2023 LRC Permit to Operate for injection wells on site. Tasks include, but are not limited to, figure review, document revision, cross checking historical data, and compilation of appendices.

Staff Scientist, Hunter Army Airfield, Savannah, GA. Feb. 2023, Jan. 2024. Field investigation activities included ground water/ surface water/ soil sampling, as well as water level measurement and evaluation. Ground water was sampled using low-flow methods, with bladder and peristaltic pumps. Evaluated chains of custody and other documentation for quality control.

Staff Scientist, Fort Gordon, Augusta, GA. Feb. 2023. Field investigation activities included ground water sampling, grab sampling from carbon filtration systems, as well as water level measurement and evaluation. Monitoring wells site-wide were inspected for signs of damage and any other issues.

Staff Scientist, Smokey Mountain Smelters Site, Knoxville, TN. Feb.-Mar. 2023. Field activities involved assisting the operator of a direct push drilling rig, working with a four way manifold pump to inject Calcium Polysulfide into the subsurface as a method of metals precipitation. Monitored groundwater chemical parameters daily during injection using a YSI.

Staff Scientist, Enlink Midstream, Nutter Terminal, WV. Aug. 2023. Field investigation activities include collecting soil samples at intervals along a creek bed for lab analysis.

Staff Scientist, Fauss Family Trust, Vogue Swift Cleaners, Marietta, OH. Sept. 2023. Field investigation activities include oversight of the drilling of five new wells onsite, as well as low-flow ground water sampling with chemical parameters measured with a YSI.

Staff Scientist, Lone Star Army Ammunition Plant, Texarkana, Tx. Jan. 2024. Activities include drafting a 2024 update to the RAP and drafting the RACR for an abandoned Construction Landfill.

Staff Scientist, Middletown Works Additional Areas, Middletown, OH. Jul. 2024. Field Activities include staking out a gridded area with the use of a Trimble, to facilitate controlled excavation and confirmation sampling. Additional activities include a detailed cross check of waste manifests and weigh tickets against a digital database to ensure all documentation was accurate and accounted for.

Staff Scientist, OMNIS Pleasants Power, Belmont, WV. Aug. 2024 to present. Field Activities include low-flow groundwater sampling with chemical parameters measured with a YSI.

Staff Scientist, Fike/ Artel Superfund Site, Nitro, WV. Aug. 2024. Field Activities include low-flow groundwater sampling with chemical parameters measured with a YSI.

Staff Scientist, Vienna PCE, Vienna, WV. Dec. 2024. Field Activities include low-flow groundwater sampling with chemical parameters measured with a YSI.

Staff Scientist, Middletown Works, Middletown, OH. Sept. 2024. Activities include environmental oversight and core logging for geotechnical drilling occurring within the plant.

EMPLOYMENT HISTORY

Staff Scientist , KEMRON Environmental Services, Inc., Marietta, OH, 07/2022 to 07/2024

Sales representative, McDonalds, Oak Hill, OH, 06/2020-07/2020

Groundskeeper, Holzer Health Systems, Athens, OH, 07/2019-08/2019

PATRICK SPURGEON
PROJECT SCIENTIST/ GEOLOGIST

Education
BS, Earth and Environmental Science, University of Illinois at Chicago, Chicago, IL (2009)

Registrations / Certifications / Training

- 40 hr OSHA Hazardous Waste 29 CFR 1910.120
- 30 hr OSHA Construction Outreach Training
- 10 hr OSHA Construction Outreach Training
- C4 OSHA Hazwoper Supervisor
- Construction Quality Management (CQM) Training
- Transportation Worker Identification Credential (TWIC) (expires 6/21/2028)
- Ohio EPA DERR Soil Classification, Description and Logging Training.
- Ohio EPA DERR-DDAGW Ground Water Training, Well Development & Ground Water Sampling
- NASBLA Boat Safety Certification.
- JS-US007 Level I Antiterrorism Awareness Training
- Qualified per Federal Motor Carrier Safety Regulations 49 CFR 391.41
- American Red Cross First Aid / CPR / AED (expires January 2024)

Mr. Spurgeon offers over twelve years of progressive experience in environmental science, including but not limited to, field team leadership and coordination, forecasting and planning of project costs and field staffing logistics, data review, report preparation, field sample collection, and soil classification. Mr. Spurgeon's project experience includes military/federal government investigation programs, remediation projects, and UST projects. Mr. Spurgeon has experience in soil and test pit logging and well installations, soil/ sediment/ surface water/ groundwater/ ambient air sample collection, and data evaluation. Mr. Spurgeon has also provided project health and safety oversight for project staff and subcontractors on numerous investigations. Additional work experience includes training relative to sampling techniques commonly employed in environmental investigations, and review and implementation of new and evolving methodologies.

SELECTED PROJECT EXPERIENCE

Regional Health and Safety Representative, KEMRON Environmental Services, Inc., Marietta, OH. October 2019 to present. Responsibilities include representing KEMRON by attendance and collaboration at Mid Ohio Valley Safety Council (MOVSC) monthly meetings. Coordination and scheduling of monthly safety meetings. Coordination with Corporate Health and Safety staff on safety topics for monthly meetings and employee training / education, Health and Safety Plans (HASPs), facilitate distribution and employees' awareness of current safety topics. Contributing ideas and resources in response to COVID-19 outbreak, including collaboration on COVID-19 HASP Addendum. Additional and evolving responsibilities related to all aspects of maintaining KEMRON's dedication to safe work practices.

Environmental Scientist/Regional Health and Safety Representative, The PM Company, Belpre, OH. June 2020. Developed a HASP for soil excavation activities and environmental oversight at the site of a former BP gasoline station. As a former gasoline station, the possibility of encountering soils (and possibly shallow groundwater) contaminated with BTEX and TPH during excavation existed. Drafted Activity Hazards Analysis (AHA) sheets for all phases of KEMRON site work including excavation and sample collection of potentially contaminated soil, working near heavy equipment and general vehicle traffic hazards. Compiled an attachment of Safety Data Sheets (SDS) for all site Chemicals of Potential Concern (COPCs).

Environmental Scientist, Numerous projects and sites in OH, WV, TX. August 2010 to present. Project coordination responsibilities (July 2015 to present); Site Safety & Health Officer (June 2019 to present) including: Lab coordination and kit requests, working with subcontractors to draft subcontract agreements, working with project managers to define field costs for proposals, coordination to obtain and directing field staff to maintain compliance with site-specific permitting. Field team leadership and training of new field staff on site specific methodologies including: field documentation, review of and adherence to SOPs, safety documentation, instrument calibration, field sample collection, labeling, containerization, preservation, custody documentation, handling and shipping, field parameter measurement, re-development of groundwater monitoring wells, field parameter anomaly investigation and documentation, groundwater sampling via low flow, bailer, peristaltic pump, submersible pump, and geomon purge sampling methods.

Environmental Scientist, Red River Army Depot, Texarkana, TX. November 2010 to present. Field team leader for continuing groundwater investigation activities at this active military base in Texas. Responsible for several site-specific field investigation programs. Site investigations primarily involve determination of extent and monitoring of groundwater contaminant plumes at several locations. Project coordination responsibilities include: leading and training the field team of 4-6 employees, providing guidance on site-specific restrictions and streamlining completion strategy, frequent client consultation and updates, quality control sample accounting, and field paperwork QC prior to sample shipment. Additional activities include determining of groundwater classification based on yield, site wide groundwater sample collection by Low-Flow sampling method, groundwater sample collection by low-purge (Hydrasleeve™) and no-purge (Snap™) sampling methods, groundwater chemical parameter measurement using a YSI, performance monitoring at permeable reactive barrier (PRB) containment walls including slug tests, re-sizing and concrete pad repair and replacement of monitoring wells near the PRB wall, and oversight of surveyors during the subsequent re-survey of re-sized wells, and semi-annual extraction of LNAPL at one specific site monitoring well. Provided assistance with revision of facility RCRA Part B Permit renewal application, facility Compliance Plan, and Compliance Sampling and Analysis Plan for review by TCEQ. Provided additional assistance in responding to TCEQ comments on RCRA Part B Permit renewal application. Provided assistance with revision of facility Site Safety and Health Plan.

Project Scientist / Site Safety & Health Officer, Hunter Army Airfield, Savannah, GA. February 2023 to present. Field team leader for ongoing groundwater and surface soil investigation activities at this active military base in Georgia. Project coordination responsibilities include: leading and training the field team, providing guidance on adherence to site-specific SOPs and streamlining completion strategy, coordination with project management and implementation of alternate strategies in the face of unexpected field conditions, client consultation and updates, quality control sample accounting, and field paperwork QC prior to sample shipment. Additional activities include water table measurement and evaluation, groundwater sample collection by Low-Flow sampling method using a peristaltic pump, collection of composite surface soil samples to determine contamination levels prior to excavation.

Project Scientist / Site Safety & Health Officer, Fort Gordon, Augusta, GA. February 2023 to present. Field team leader for ongoing groundwater, effluent water, and surface water investigation activities at this active military base in Georgia. Project coordination responsibilities include: individually identifying all project and tasks requirements applicable to sampling event, customizing field paperwork to ensure capture of all required data and information, leading and training the field team of 4 employees, providing guidance on adherence to site-specific SOPs and streamlining completion strategy, coordination with project management and implementation of alternate strategies in the face of unexpected field conditions, demonstration of field techniques during client and regulatory oversight, quality control sample accounting, and field paperwork QC prior to sample shipment. Additional activities include water table measurement and evaluation, groundwater sample collection by Low-Flow sampling method using bladder pumps and peristaltic pumps, effluent water collection from active extraction and treatment system, and collection of surface water samples from shallow stream and active seeps.

Environmental Scientist, Cleveland-Cliffs Steel Tex-Tube, Houston, TX. October 2013 to present. Field investigation activities include ongoing water table measurement and evaluation, ongoing groundwater sample collection by Low-Flow sampling method, groundwater chemical parameter measurement using a YSI, field parameter anomaly investigation and re-development of select groundwater monitoring wells with a submersible pump, and safety oversight during monitoring well abandonment. Report preparation activities include drafting a revised Health and Safety Plan (HASP), data table creation, drafting of potentiometric surface maps and contamination analysis maps, and report text QC. Project coordination activities include scheduling and staffing ongoing site sampling activities, leading and training the field team, providing guidance on adherence to site-specific SOPs and streamlining completion strategy, coordination with project management, demonstration of field techniques during client and regulatory oversight, quality control sample accounting, and field paperwork QC prior to sample shipment, lab coordination and pricing negotiation including defining subcontract details, notification and scheduling to obtain access to neighboring properties, scheduling and pricing negotiation with waste disposal company to remove IDW drums from site fieldwork and safety oversight during drum removal, notification to City of Houston Dept. of

Public Works regarding traffic lane closure during fieldwork and coordination to procure the necessary permits.

Environmental Scientist, Cleveland-Cliffs Steel Greens Bayou Landfill, Houston, TX. October 2013 to present. Field investigation activities include ongoing water table measurement and evaluation, groundwater sample collection by dedicated bailer, groundwater chemical parameter measurement using a YSI, and safety oversight for subcontractors during site surveying activities. Additional field activities include experimental low flow purging and sampling of select wells for comparison to previous bailer sampling efforts to investigate turbidity issues, well re-development with a submersible to address siltation and attempt to remedy turbidity issues at select wells. Report preparation activities include drafting a revised HASP, data table and graph creation, drafting of potentiometric surface maps and contamination analysis maps, and report text QC. Project planning activities include scheduling and staffing of ongoing site sampling activities, lab coordination, scheduling and pricing negotiation with waste disposal company to remove IDW drums from site fieldwork and safety oversight during drum removal.

Environmental Scientist, Cleveland-Cliffs Steel, Middletown, OH. June 2013 to present. Semi-annual monitoring report to evaluate the effect of Class I injection wells on nearby drinking water. Project coordination responsibilities include sampling event scheduling, lab kit requests, coordination of subcontractor response for statistical analysis, compilation and QC of final report including all appendices and supporting documentation. Report preparation activities include data review, compilation and graphical presentation, text editing and report QC review. Additional activities include data review, compilation and graphical presentation for monthly operating report. Field activities include ongoing water table measurement and evaluation, ongoing groundwater sample collection by Low-Flow sampling method, groundwater chemical parameter measurement using a YSI, surface soil sampling, soil gas sampling using summa canisters, hydraulic conductivity measurement and data collection using a pressure transducer and a 10-pound slug, surface water sampling. Further reporting and document preparation activities, including review of existing historical documents and investigation into current site geophysical conditions to support project management in drafting Permit renewal and a new Land Ban Petition, as well as detailed QC of select excerpts of the draft document and coordination with administrative staff to facilitate revisions.

Environmental Scientist, Cleveland-Cliffs Steel Middletown Works Consent Decree/RCRA Corrective Action Project, Middletown, OH. August 2014 to present. Field activities include assisting in the implementation of ecological remediation for the Year One site activities, including identification and removal of invasive vegetation. Surface water flow rate measurement, surface water sample collection, creek sediment thickness measurement and sediment sampling. Providing project administration support through review of monthly Consent Decree submittals USEPA and other stakeholders, compiling quarterly submittals for transmittal to the established Information Repository to document all Consent Decree related decision making.

Environmental Scientist, Cleveland-Cliffs Steel Mansfield Plant, Mansfield, OH. March 2019 to present. Field activities include coordination with site environmental staff and plant operational staff to conduct quarterly inspection of all petroleum-based operational equipment as required by the site SPCC plan. Upcoming field activities in 2019 will include ongoing quarterly SPCC inspections. Upcoming reporting activities in 2023 will include coordination with KEMRON engineering staff and senior scientist to complete a 5-year SPCC plan and contingency plan review.

Environmental Scientist, Cleveland-Cliffs Steel, Cambridge, OH. August 2018 to present. Field activities include ongoing water table measurement and evaluation, ongoing groundwater sample collection by Low-Flow sampling method, groundwater chemical parameter measurement using a YSI, and surface soil sampling. Additional field activities include IDW management and staging, coordination with waste haulers to schedule waste removal and field environmental and safety oversight of several waste removal pickups. Reporting activities include drafting the 2018 site specific HASP, drafting of potentiometric surface maps, as well as ongoing support of project management for workload, staffing, and fieldwork cost projection and planning.

Environmental Scientist/Geologist, Closed Steel Company Site, Southwest OH. August 2010 to present. Field geologist for supplemental remedial investigation activities completed at a closed steel manufacturing facility (Former Armco Hamilton facility) in Hamilton/New Miami, OH. Responsible for continuing investigation activities in 2010 including identification of riparian sediment sampling sites and on-site hazard location utilizing GPS. Project coordination responsibilities include: leading and training the field team, providing guidance on adherence to site-specific SOPs and streamlining completion strategy, coordination with project management and implementation of alternate strategies in the face of unexpected field conditions, demonstration of field techniques during client and regulatory oversight, quality control sample accounting, and field paperwork QC prior to sample shipment. Field investigation activities in 2013 through present also include environmental oversight during materials evaluation for slag/scrap potential recovery, facilitating site and groundwater well accessibility, water table measurement and evaluation, groundwater sample collection by Low-Flow sampling method, groundwater chemical parameter measurement using a YSI. The site network consists of 45 onsite wells completed at 3 different groundwater monitoring intervals, and two offsite wells. Analytes sampled and analyzed include metals, VOCs and SVOCs. Project planning activities include scheduling and staffing ongoing site sampling activities, coordination with project management on budget forecasting and materials pricing. Develop and report on IDW inventory; assist in IDW characterization and management. Reporting activities include assistance in drafting the periodic revisions to the site QAPP, HASP and other Site documents.

Environmental Scientist, Solvay Advanced Polymers, Marietta, OH. May 2013 to present. Field investigation activities include ongoing water table measurement and evaluation, ongoing groundwater sample collection by Teflon bailer and Low-Flow method, groundwater chemical parameter measurement using a YSI. Additional field efforts include site safety and environmental oversight during monitoring well casing and pad replacement, training new field staff on methodology during site wide re-development of groundwater monitoring wells using a submersible pump, coordination with lab for kit requests, and coordination with project management to plan for deployment of bladder pumps to replace bailers and transition site sampling methods to low flow purging. Additional field investigation activities include work area permitting, coordination with client during collection of process wastewater samples utilizing the specialized EPA 25D method.

Environmental Scientist, McAlester Army Ammunition Plant, McAlester, OK. September 2020 to present. Field investigation activities include ongoing water table measurement and evaluation, ongoing site wide groundwater sample collection by Low-Flow sampling method using dedicated bladder pumps and peristaltic pumps, groundwater chemical parameter measurement using a YSI, coordination with site and field staff on quality control sample accounting, and field paperwork QC prior to sample shipment, installation of site perimeter and landfill replacement signage following damage and removal. Site environmental health and safety activities include oversite of drilling subcontractors during the plugging and abandonment of temporary groundwater monitoring wells.

Environmental Scientist/Geologist, various projects, including U.S. Army Garrison, Fort Jackson, SC; Anniston Army Depot, Calhoun County, AL; WVDEP Vienna PEC Site, Vienna, WV. June 2019 to present. Reporting activities include water table evaluation, coordination with GIS staff to draft potentiometric surface maps and isocontour maps for constituents of concern, including TCE, PCE, cis-1/2-DCE, and Vinyl Chloride.

Environmental Scientist, various projects, including U.S. Army installations at Fort Polk, WI and Fort McCoy, LA. June 2020 to present. Detail oriented review and QC of site QAPP documents to assist project management with revisions relevant to field SOPs, and document format consistency.

Environmental Scientist/Geologist, Golf Club of West Virginia, Waverly, WV. July 2020 to present. Field investigation activities include coordination with WVDEP and site staff to confirm boring locations for soil sampling. Surface and subsurface soil sampling was required to assess existing site soil conditions following a WVDEP inspection. Signs of oil staining indicated the possibility of a release from damaged secondary containment installed around two site ATSs that contained gasoline and diesel fuel. Advanced five borings with a hand auger to eighteen inches bgs and homogenized surface ((0-6) inches bgs), and subsurface ((12-18) inches bgs) soil intervals prior to field screening with a PID and sample containerization

for analysis of TPH -GRO, -DRO, and -ORO by Method 8015. Subsequent field investigation activities include collection of confirmation samples following site soil excavation. Confirmation samples were collected from the base of the excavation in three places. Each sample was field screened with a PID and submitted for analysis of BETX by Method 8260 and PAH by Method 8270. Samples for BETX by method 8260 were collected using Terracore sample collection technique. A composite soil sample was also collected from the roll-off container used during excavation for waste characterization prior to removal and disposal.

Environmental Scientist/Geologist, Moore Residence, Belpre. OH. July 2020. Field investigation activities include field assessment and soil sampling to evaluate potential impacts to the surface soil. Boring locations were selected in the field based on site history. Advanced three borings with a hand auger to six inches bgs. Surface soil samples were homogenized, placed in clean sample containers, and submitted for Sodium, Chloride, Soluble Salts (conductivity), and Cation Exchange Capacity analysis at an Agricultural lab.

Environmental Scientist, Vogue Swift Dry Cleaners, Marietta, OH. August 2019, to March 2020. Field investigation activities include well development of existing site monitoring well using peristaltic pump, groundwater sample collection by Low-Flow sampling method, groundwater chemical parameter measurement using a YSI, project health and safety oversight for subcontractors during well abandonment.

Environmental Scientist, Kuraray America, Inc., Washington, WV. August 2019. Field investigation activities include coordination with site staff to identify boring locations for confirmation soil sampling required to assess existing site soil conditions prior to aboveground storage tank removal and closure. Advanced six borings with a hand auger to one foot bgs and homogenized samples prior to containerization for analysis of Butyraldehyde by Method 8315A.

Environmental Scientist, Lima Refining Company, Lima, OH. July 2019 to November 2019. Project planning and reporting activities include assessment of existing report structure to identify data gaps and recommend areas of improvement with respect to compliance, based on historic experience with environmental regulations and Ohio EPA reporting requirements for Class I injection wells. Draft reporting matrix and support project management during conference calls to provide suggestions for future process modifications and reporting. Additional reporting activities include thorough document QC to ensure deliverables meet the highest standards of quality.

Environmental Scientist, Ace Pipeline, at various sites: (Pennsboro, WV. April 2018, December 2018); (West Union, WV. April 2017); (Clarington, OH March 2016). Site investigation to verify location and measure secondary containment capacity of oil storage tanks and oil filled operational equipment. Site interview with manager and site safety coordinator to verify land use and activities. Coordination with KEMRON Engineering and GIS staff to draft Spill Prevention, Control, and Countermeasure (SPCC) and Groundwater Protection (GPP) Plans.

Environmental Scientist, Fort Pickett, Blackstone, VA. June 2017 to 2019. Field investigation activities include coordination with client to determine well locations, coordination with lab for kit requests, review of and adherence to SOPs, safety documentation, instrument calibration, water table measurement and evaluation, groundwater sample collection by Low-Flow method, groundwater chemical parameter measurement using a YSI sonde.

Environmental Scientist, Ohio Oil Gathering LLC / Enlink Midstream, Newport, OH. February 2016 to August 2017. Field investigation activities include field parameter measurement and surface water outfall sample collection. Most recent investigation includes collection of confirmation samples, surface water and sediment, for post-remediation following fluid release.

Environmental Scientist, Momentive Performance Materials Inc., Sistersville, WV. July 2015 to present. Coordinate with site personnel and laboratories for monthly event scheduling and staffing. Field investigation activities include field parameter measurement and sample collection for low level mercury using the “clean hands, dirty hands” method. Project planning activities include sampling event scheduling

and staffing and lab coordination. Additional sampling efforts include confirmation soil samples following fluid release and waste characterization samples of removed soil prior to treatment and disposal.

Environmental Scientist, Sabic Plastics Washington Works, Washington, WV. August 2012 to present. Field investigation activities include groundwater sample collection by Low-Flow sampling method and/or disposable bailer, collection of split samples with oversight by WVDEP, groundwater chemical parameter measurement using a YSI sonde, field parameter measurement of TRCl-Ultra Low Residual (ULR) Chlorine utilizing the HACH DR 2800 Spectrophotometer, surface water flow rate measurement and storm water outfall grab sample collection, collection of pre- and post-treatment samples from site stormwater treatment system. Review and QC of NPDES field sheets, COCs, and laboratory login reports. Review and QC of data tables and trends for Groundwater Monitoring Report. Compilation and review of annual stormwater analysis data for submission to the state by electronic DMR.

Environmental Scientist, Century Aluminum, Ravenswood, WV. September 2012 to present. Field investigation activities include monthly NPDES composite and grab sampling, and field parameter measurement of flow rate, temperature, total Chlorine and pH. Reporting responsibilities include EDD and Level 2 report QC for use in compiling data for electronic DMR (eDMR) submission, data entry for monthly eDMR reports on the West Virginia DEP website and notification of PM for any permit exceedances. Review and QC of NPDES field sheets, COCs, and laboratory login reports.

Environmental Scientist, AEP/Lightstone, Cheshire, OH. August 2016 to 2018. Field investigation activities include ongoing water table measurement and evaluation, ongoing groundwater sample collection by Low-Flow sampling method and geomon purge and sample method, groundwater chemical parameter measurement using a YSI.

Environmental Scientist, AEP Power Plant, Conesville, OH. August 2015 to present. Field investigation activities include ongoing water table measurement and evaluation, ongoing groundwater sample collection by Low-Flow sampling method and geomon purge and sample method, groundwater chemical parameter measurement using a YSI. Project oversight activities include workload projection and proposal / quote creation for newly added groundwater monitoring wells and select wells to be sampled by alternate collection methods.

Environmental Scientist, AEP Coal Prep Plant, Conesville, OH. February 2014 to September 2016. Field investigation activities include groundwater sample collection by Low-Flow sampling method, groundwater chemical parameter measurement using a YSI, surface water flow rate measurement, and surface water outfall sample collection.

Environmental Scientist, AEP Power Plant, Beverly, OH. November 2012 to August 2015. Field investigation activities include ongoing water table measurement and evaluation, ongoing groundwater sample collection by Low-Flow sampling method, groundwater chemical parameter measurement using a YSI, surface water flow rate measurement, and surface water outfall sample collection.

Environmental Scientist/Geologist, AEP John Amos Power Plant, Pocatalico, WV. September 2018. Field investigation activities include coordination with site staff and DEP to identify boring locations for confirmation soil sampling following an environmental release and cleanup. Advanced four borings with a hand auger to two feet bgs while collecting samples every six inches for headspace analysis with a Photo Ionization Detector (PID). Headspace analysis results were used to determine laboratory sample submission and analysis priority.
January 2020. Field investigation activities include coordination with site staff to identify boring locations for confirmation soil sampling following AOD tank release. Sample locations were verified in the field using handheld GPS and eight soil borings were advanced with a hand auger to two feet bgs while collecting samples every twelve inches for laboratory analysis of total ammonia (NH3) as nitrogen (N) by EPA Method SM4500 B-C-2011, and pH by EPA Method 9045. Reporting activities include coordination with project management on drafting the Final Data Summary Report detailing sample results and site sampling activities.

Environmental Scientist, AEP Power Plant, Cardinal, OH. October 2012. Field investigation activities include surface water flow rate measurement, and surface water outfall sample collection.

Environmental Scientist, AEP Power Plant, Dresden, OH. February 2015 to present. Field investigation activities include monthly NPDES composite and grab sampling, sample collection for low level mercury using the "clean hands, dirty hands" method, and field parameter measurement of temperature and pH. Reporting activities include monthly review and QC of NPDES field sheets, COCs, and laboratory login reports as well as drafting the 2018 revision to the site specific HASP.

Environmental Scientist, K&H Partners LLC, Coolville, OH. December 2015 to December 2016. Field investigation activities include collection of confirmation soil samples following injection well fluid release, detailed documentation of unexpected field conditions prompting coordination with site personnel and Ohio Department of Natural Resources to determine alternate sample locations and depths. Additional sampling efforts include further confirmation soil samples following remediation.

Environmental Scientist, Miba Sinter USA LLC, McConnelsville, OH. December 2015 to March 2016. Site investigation to verify location and measure secondary containment capacity of oil storage tanks and oil filled operational equipment. Coordination with KEMRON Engineering and GIS staff to draft Spill Prevention, Control, and Countermeasure (SPCC) Plan.

Environmental Scientist, Miba Bearings LLC, McConnelsville, OH. June 2015 to November 2015. Field investigation activities include personal air monitoring for airborne lead particulate, dust, and propyl bromide; particulate sample collection and preparation.

Environmental Scientist/Geologist, Perkins Oil Company, Newport, OH. July 2015. Field investigation activities include field soil sample collection using a hand auger, subcontractor oversight and logging of soil borings during GeoProbe activities, soil headspace analysis using a PID to determine location and frequency of soil samples plus collection of said samples, temporary groundwater monitoring well installation and groundwater sample collection using disposable bailer.

Environmental Scientist, Saint Mary's Refining Company (Former Quaker State), St. Marys, WV. June 2013 to present. Field investigation activities include well development of existing site monitoring wells using submersible pump, as well as ongoing semi-annual groundwater sampling of existing site monitoring wells using a unique purge and sample method which includes groundwater chemical parameter stabilization using a YSI. Field activities also include IDW management wherein purge water was stored temporarily in a portable tank and safely transferred into the site wastewater treatment system.

Environmental Scientist, Kraton Polymers, Belpre, OH. April 2012 to present. Field investigation activities include project health and safety oversight for subcontractors during chemical tank sandblasting and cleaning, air monitoring for airborne lead particulate, particulate sample collection and preparation, ash deposit / soil sample collection, semi-annual and bi-weekly groundwater sampling, monthly and quarterly NPDES composite and grab sampling, and field parameter measurement of TRCl-Ultra Low Residual (ULR) Chlorine utilizing the HACH DR 2800 Spectrophotometer. Spill response activities include river water sample collection at various depths to create a vertical profile of environmental impact following fluid release. Review and QC of NPDES field sheets, COCs, and laboratory login reports.

Environmental Scientist/Geologist, Former site of the American Cyanamid dye plant in Marietta, Ohio. November 2010 to present. Ongoing field investigation activities including site operation and maintenance, extraction system maintenance, water table measurement and evaluation, logging of soil borings and project health and safety oversight for subcontractors during monitoring well and piezometer installation, field soil and groundwater sample collection, soil headspace analysis using a PID, well development and installation of packer assembly for wells displaying artesian characteristics. Additional field activities include safety oversight of subcontractors during site tree removal and site pump repair.

Environmental Scientist, Swagelok, a fluid system product manufacturer in Ravenna, OH. July 2012 to present. Field investigation activities include monthly and quarterly NPDES sample collection, field

mitigation of cyanide interferences, field parameter measurement and sample collection for low level mercury using the “clean hands, dirty hands” method. Review and QC of NPDES field sheets, COCs, and laboratory login reports.

Environmental Scientist, Eramet, a metallurgical manufacturing company in Marietta, OH. December 2012 to present. Field investigation activities include surface water flow rate measurement and storm water outfall grab and composite sample collection.

Environmental Scientist, PPG Commodity Chemicals Company, Natrium, WV. May 2011 to present. Field investigation activities include groundwater sample collection by Low-Flow sampling method, and groundwater chemical parameter measurement using a YSI.

Environmental Scientist, Colgate Palmolive, Cambridge, OH. February 2015 to present. Field investigation activities include monthly NPDES composite and grab sampling, and field parameter measurement of flow rate, temperature and pH. Review and QC of NPDES field sheets, COCs, and laboratory login reports.

Environmental Scientist, Thermo Fisher, Marietta, OH. July 2012 to present. Field investigation activities include monthly NPDES composite and grab sampling, and field parameter measurement of flow rate, temperature and pH. Review and QC of NPDES field sheets, COCs, and laboratory login reports.

Environmental Scientist, AMG Vanadium, Cambridge, OH. February 2015 to present. Field investigation activities include monthly NPDES composite and grab sampling, split sample collection with City of Cambridge Wastewater Treatment representative, and field parameter measurement of temperature and pH. Review and QC of NPDES field sheets, COCs, and laboratory login reports. Additional field efforts include investigation of flow direction, rate, and extent of sedimentation within site stormwater system with subsequent surface water parameter measurement using a YSI and surface water sampling with peristaltic pump.

Environmental Scientist, Pioneer Pipe, Hannibal, OH. May 2019. Field investigation activities include coordination with site staff to determine strategies for field measurement of total chlorine content in water supply piping. Measurements made with Hach handheld chlorine meter on water samples after field dilutions of 1:10, 1:20, 1:50, and 1:100 to determine content in mg/L of highly concentrated samples.

Environmental Scientist, Capital Sand Proppants, Bens Run, WV. November 2018. Conducted Phase I Environmental Site Assessment (ESA) in accordance with ASTM Standard E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, including site walk with photo documentation and assessment of on-site / nearby off-site environmental hazards. Conducted deed record search and utilized EDR reports to create draft and final Phase I ESA report.

Environmental Scientist, Hilltop Auto Wrecking, Marietta, OH. February 2020. Conducted Phase I Environmental Site Assessment (ESA) in accordance with ASTM Standard E1527-13, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, including site walk with photo documentation and assessment of on-site / nearby off-site environmental hazards. Conducted deed record search and utilized EDR reports to create draft and final Phase I ESA report.

Environmental Scientist, Par Mar 33, Marietta, OH. January 2020. Conducted field assessment elements of Phase I ESA, including site walk with photo documentation and assessment of on-site / nearby off-site environmental hazards.

Environmental Scientist, Fenton Art Glass, Vienna, WV. August 2018, Dec 2019. Field investigation activities include surface water flow rate measurement and storm water outfall grab sample collection as well as field measurement and documentation of NPDES permit required field parameters using a YSI sonde.

Environmental Scientist, Former BP Exploration and Oil Inc. Gas Station Property, Belpre, OH. December 2013. Phase I report preparation activities include data review, compilation and graphical presentation, text editing and report QC review.

Environmental Scientist, American Municipal Power, Inc. (AMP), Belleville, WV. August 2014 to September 2014. Field investigation activities include sample point location using GPS; towing, launching and piloting small watercraft as well as field measurement and documentation of dissolved oxygen (DO) levels at various depths in the Ohio river during DO survey above and below Belleville lock and dam and Willow Island lock and dam.

Environmental Scientist/Geologist, Ohio SFM BUSTR Program. September 2012. Field investigation activities including logging of soil borings during well installation, field soil and groundwater sample collection, elevation survey of site conditions, and project health and safety oversight for subcontractors on a BUSTR underground storage tank release site in Fleming, OH. Assisted in preparation of BUSTR documents including characterization of subsurface conditions within identified source areas, evaluation of extent of impact.

Environmental Scientist, RJF International / Profusion, Marietta, OH. July 2012 to present. Field investigation activities include ongoing water table measurement and evaluation, field parameter measurement using a YSI and groundwater sample collection at site production wells, surface soil sampling using compact slide hammer and core sampler, weekly and monthly NPDES composite and grab sampling, and field parameter measurement of TRCl-Ultra Low Residual (ULR) Chlorine utilizing the HACH DR 2800 Spectrophotometer. Review and QC of NPDES field sheets, COCs, and laboratory login reports.

Environmental Scientist/Geologist, Eureka Hunter Pipeline, LLC, Hastings, WV. April 2012 to August 2012. Field investigation activities including logging of soil borings during well installation, logging of test pits during excavation, field soil and groundwater sample collection with split sample collection and oversight by Virginia Department of Environmental Protection, soil headspace analysis using a PID, elevation survey of monitoring wells and site conditions, project health and safety oversight for subcontractors during test pit excavation and well installation. Assisted in preparation of Phase II report including characterization of subsurface conditions within identified source areas, evaluation of extent of impact. Prepared site specific HASP for ongoing Phase II site work.

Environmental Scientist, International Converter, Caldwell, OH. February 2013 to June 2013. Field investigation activities include indoor ambient air monitoring at various sample points and elevations using a PID, Flame Ionization Detector (FID), and air monitoring for airborne aluminum particulate, particulate sample collection and preparation.

Environmental Scientist, Rolling Hills Generating, Wilkesville, OH. June 2012. Field investigation activities include surface soil sample collection using compact slide hammer and core sampler, as well as sample location recording with hand-held GPS device.

Environmental Scientist/Geologist, Active Petroleum AST Site, Caldwell, OH. September 2010 to November 2010. Phase II field investigation activities including logging of soil borings and project health and safety oversight for subcontractors during well installation, field soil sample collection using hand auger and during GeoProbe soil boring activities, groundwater sample collection using disposable bailer. Phase II report preparation activities including data review, compilation and graphical presentation.

Environmental Scientist/Geologist, Flexmag, Marietta, OH. November 2011 to present. Field investigation activities include surface soil sample collection using hand auger, as well as headspace screening of soil samples with a PID to determine necessity of lab analysis. Coordinated with Flexmag Corporate Health and Safety representative to choose sample locations and discuss methodology before initiation of sampling. Review and QC of NPDES field sheets, COCs, and laboratory login reports.

Environmental Scientist, U.S. Sportsman, Monroe County, OH. August 2011. Field investigation activities include Phase I site walk with photo documentation and assessment of on-site / nearby off-site environmental hazards. Assisted in deed record search and utilized EDR report to draft Phase I report.

Environmental Scientist, Washington Electric Co-Op, Marietta, OH. March 2012. Field investigation activities include Phase I site walk with photo documentation and assessment of on-site / nearby off-site environmental hazards. Conducted deed record search and utilized EDR report to create draft and final Phase I report.

Environmental Scientist, Ohio Department of Transportation, Belpre, OH. Field investigation activities include surface soil sample collection using hand auger and compact slide hammer with core sampler and sampling of sandblast waste material from 55-gallon drums.

Environmental Scientist, Kings Mills USARC, Kings Mills, OH. August 2011 to July 2013. Field investigation activities include ongoing water table measurement and evaluation, groundwater sample collection by Low-Flow sampling method and Teflon bailer, groundwater chemical parameter measurement using a YSI, effluent air sampling of DPHVE groundwater treatment system, and O&M for DPHVE system. Assisted in data analysis and drafting of 5-year progress and system performance report for site activities.

Environmental Scientist, Hall Drilling, LLC, Ellenboro, WV. July 2014. Field investigation activities include residential water sampling to establish baseline contamination levels in well-sourced drinking water in the vicinity of proposed drilling activities.

Environmental Scientist/Geologist, Commercial property, former gas station, Marietta, OH. July 2013. Phase II field investigation activities including logging of subsurface soil and project health and safety oversight for subcontractors during GeoProbe soil boring activities and temporary well installation, field soil sample collection, field screening of soil samples using a PID, groundwater sample collection using disposable Teflon bailer.

Environmental Scientist, Steel Dynamics, Marietta, OH. June 2013 to August 2013. Field investigation activities include Phase I site walk with photo documentation and assessment of on-site / nearby off-site environmental hazards. Conducted deed record search and utilized ERD report to create draft and final Phase I report.

Environmental Scientist, Former Ashland Oil Above Ground Storage Tank (AST) Site, Belmont, WV. July 2013. Field investigation activities include Phase I site walk with photo documentation and assessment of on-site / nearby off-site environmental hazards. Conducted deed record search and utilized ERD report to create draft and final Phase I report.

EMPLOYMENT HISTORY

Environmental Scientist / Geologist, KEMRON Environmental Services, Inc., Marietta, OH, August 2010 to present.

Teaching Assistant, University of Illinois at Chicago, Department of EAES, Chicago, IL, 01/2007 to 06/2007

Shipping Manager, Triode Electronics, Chicago, IL, 08/2007 to 12/2009

Plan Room Coordinator, Thornton Tomasetti, Inc., Chicago, IL, 04/2000 to 03/2007

Brennan Lane Evans
Environmental Field Technician, Lab Manager

Education
2013 Graduated from Mountaineer Challenge Academy

Certifications
- HAZWOPER 40 Hour

Brennan Evans serves as an Environmental Technician for KEMRON Environmental Services, Inc. (KEMRON) and is located in the Charleston, West Virginia office. As an Environmental Technician, Mr. Evans assists Project Managers with organization, preparation, and implementation of field activities, oversight of subcontractors, ensuring compliance with all technical and regulatory requirements and sampling approaches to meet state and federal regulatory requirements and project specific objectives, and the collection of data and evaluation for incorporation into reports.

His responsibilities include groundwater monitoring, NDPES permit compliance sampling, landfill methane monitoring, and operation and maintenance of remediation systems.

PROFESSIONAL RESPONSIBILTIES & EXPERIENCE

- Maintain field equipment & supplies
- Calibrating PH, DO, TRC, Conductivity meters, and Auto-samplers on a dayly basis
- Surface water sampling
- Ensure accurate, timely, and safe delivery of samples, while interfacing directly with clients
- Ground water sampling & monitoring
- Air sampling & monitoring
- Soil Sampling
- Sand filter media replacement
- NPDES sampling
- GW reporting
- Vapor barrier installation
- Transducer data collection
- Cofferdam instillation oversight
- Manhole sampling & cleaning oversight

Field Sampling Technician

Mr. Evans has been assigned and functions as the KEMRON Field Sampling Technician on soil and groundwater sampling activities at a former Chemical Plant Superfund Site. Activities have included low-flow sampling of a large groundwater monitoring well network and the installation of soil borings for soil and groundwater sample collection. Duties include daily operation, calibration and use of field screening instrumentation such as organic vapor analyzers and pH/Conductivity meters.

Environmental Field Technician

Mr. Evans has served as an environmental field technician for approximately 1 year. He has served as a field technician on more than (20) projects involving soil and groundwater remediation system operation and maintenance for retail petroleum facilities in West Virginia, and North Carolina. Mr. Evans has conducted Groundwater Sampling and Quarterly Wastewater Effluent samples.

Environmental Field Technician

Mr. Evans serves as an environmental field technician for a large municipal solid waste landfill company. His responsibilities include coordination and collection of stormwater and leachate samples, field monitoring, and collection of methane readings.

Environmental Field Technician

Mr. Evans served on a KEMRON crew that installed sub-slab ventilation piping and a vapor barrier during the new construction of a Starbuck's coffee restaurant. The installation was driven by the proximity of a retail petroleum station adjacent to the restaurant and the concern of potential future release of petroleum hydrocarbon which could pose an inhalation concern for customers.

Environmental Remediation System O&M Technician

Mr. Evans has performed remediation system operation and maintenance services at multiple release sites for KEMRON. This includes monthly O&M and fly-by visits at retail petroleum stations and medical facilities in WV, OH, North Carolina, and Indiana. Remediation systems included mobile remediation systems utilizing dual-phase high vacuum extraction, light non-aqueous phase liquid hydrocarbon (LNAPL) recovery, and air sparge/soil vapor extraction technologies.

Field Sampling Technician

Mr. Evans participated as a Field Sampling Technician for groundwater sampling activities at an industrial steel manufacturing facility. Activities included low-flow sampling of a large groundwater monitoring well network. Duties include daily operation, calibration and use of field screening instrumentation such as organic vapor analyzers and pH/Conductivity meters.

EMPLOYMENT HISTORY

Environmental Technician, KEMRON Environmental Services, Inc., Charleston, WV, 10/2024 to Current

Environmental Field Technician, ALS, Charleston, WV, 10/2023 – 10/2024

Austin L. Starcher
Equipment Specialist/WWTP Operator/ Enviromental Tech

Austin Starcher serves as an Equipment Operator, Equipment Specialist, Wastewater Treatment Plant (WWTP) Technician and Mobilized Treatment Unit (MTU) Technician.

EDUCATION

High School Diploma, Buffalo High School, 2017

CERTIFICATIONS

OSHA 40-Hour Hazardous Waste Training
OSHA 8-Hour Refresher Hazardous Waste Training
OSHA-30 Construction Safety & Health
Forklift Operator
Rough Terrain Forklift Operator
Boom Lift Operator

EXPERIENCE

WWTP Operator
As a WWTP Operator, Mr. Starcher provides operation and maintenance, troubleshooting and sampling responsibilities at 10+ sites across West Virginian. Austin is also responsible for customer coordination and scheduling.

Remediation Operation and Maintenance
Mr. Starcher performs operation and maintenance duties on a soil vapor/groundwater extraction remediation system. Responsibilities include installation, sampling events, troubleshooting and repair work.

Equipment Operator
Mr. Starcher was the lead operator on multiple sand filter media replacement projects at KEMRON. Work consisted of removal of spent media with excavators and/or skid steer, loading of trucks for disposal, installation of pit liners, repair work and installation of new media.

Site Supervisor
Oversight on earthwork for site preparation, poured monolithic pad and installed post frame building. Oversight on framing of metal building (60’ x 32’), plumbing, electrical and utilities. Installed drywall and all finished material.

EMPLOYMENT HISTORY

KEMRON Environmental Services, Inc., Poca WV, 10/2023 to present.

Total Quality Logistics, Charleston, WV 3/2022 to 10/2023

King Quality Construction, Red House, WV 10/2021 to 3/2022

Landscaping by Hillcrest, Ona, WV 3/2021 to 10/2021

Mountaineer Building Solutions, Winfield WV, 5/2020 to 3/2021

ROBERT L. CASTO
STAFF SCIENTIST

Education
B.S. in Geology with a Minor in Environmental Science from Marietta College- Marietta, Ohio, 2016

Registrations / Certifications / Training
- OSHA 40 Hour Hazwoper Training, 1/21/2021
- OSHA 10-Hour Course for Construction CBT.
- C4 Hazwoper Supervisor Training, 1/8/2020
- Construction Quality Management Certificate 7/7/20.
- OSCA Defensive Driving-Small Vehicles
- OSCA Safety Orientation.
- OSCA Hazard Communication.
- Level 1 Antiterrorism Awareness Training, 2/13/2019.

Mr. Casto offers 8 years 10 months experience including groundwater sampling, and soil sampling. Mr. Casto has federal and local project experience, which includes field team leadership using groundwater sampling methods such as low flow, hand bailer, potentiometric mapping, low level mercury using clean hands dirty hands method, and most recently dual membrane passive diffusion bag sampling. Mr. Casto also offers experience in outfall sampling. Soil sampling experience includes Geoprobe and utility clearance coordination. Mr. Casto is also proficient in sampling machine calibration and equipment use/repair/cleaning.

SELECTED PROJECT EXPERIENCE

Staff Scientist, AEP Conesville CCR. Conesville, OH**.** Aug/2016 to Jan/2020. 8 sampling events were conducted within 2017. Groundwater sampling of 50 plus wells including two sites, FGD and BAP. Field activities are using the low flow sampling method using the YSI meter to determine stable parameters for sample collection. Site wide water levels collected prior to sampling to determine water table in a 24 hour period. Outfall samples are also collected at both sites. Well types include dedicated pumps and Geomons. QC of field sheets is also completed.

Staff Scientist, Former AEP Gavin CCR. Gavin, OH. Oct/2016 to Apr/2018. Field activities: Groundwater sampling of the plant wells using the low flow sampling method. Site wide water levels collected prior to sampling to determine water table in a 24 hour period. The YSI meter is used to determine stable parameters for sample collection. Outfall samples are also collected for this project. Wells types include dedicated pumps and electric Grundfos pumps. QC of field sheets is also completed.

Staff Scientist, Walter Reed Army Medical Center. Bethesda, MD. Feb/2017 to Mar/2019. Former Medical Center that has been shut down due to a newer medical complex being opened. Field activities: Soil samples were collected at this site using a Geoprobe to determine depth and positions of borings. Utility companies were called prior to sample to ensure safe drilling clearance. Borings were logged and sampled for PCB contamination.

Staff Scientist, Red River Army Depot. Hooks, TX. Oct/2016 to Current. Field activities: Site wide water levels collected prior to sampling to determine water table in a 24-hour period. Groundwater sampling of 232 wells at multiple sites comprises of low flow and Snap sampling. Contamination plumes are continuously monitored with information collected. UXO official safely navigates field teams to wells in part of the base. YSI meter is used to determine stable parameters. Slug testing is used at PRB site (annually). VOC's are monitored by water sampling of wells site wide using no bubble method.

Staff Scientist, Kraton Polymers. Belpre, OH. Sep/2016 to Current. Field activities: Kraton six well semiannual sampling event using low flow method. YSI meter is used to determine stable parameters. NPDES samples are also collected here both grab and composite types. QC of field sheets is also completed.

Staff Scientist, AK Steel Textube, Houston Texas. Oct/2016 to Current. Field activities: Site wide water levels collected prior to sampling to determine water table in a 24 hour period. Groundwater sampling comprises of the low flow method and stable parameters are determined using the YSI meter. IDW removal in drums was also completed from site. QC of field sheets is also completed.

Staff Scientist, AK Steel Greens Bayou Landfill. Houston, TX. Oct/2016 to Current. Field activities: Site wide water levels collected prior to sampling to determine water table in a 24-hour period. Groundwater sampling includes hand bailing of 3 well volumes. YSI meter is used to determine parameters after each consecutive well volume. Samples were then collected following 3rd well volume bailing completion. Creek cleanup and removal of woody debris was completed on site. Removal of IDW drums from site was completed.

Staff Scientist, Momentive Performance Materials Inc. Sistersville, WV. Sep/2016 to Feb/2019. Field activities: Collection of lower level mercury samples using the clean hands dirty hands method. Momentive provided a safety guide while sampling commenced. QC of field sheets was also completed.

Staff Scientist, Solvay Advanced Polymers. Marietta, OH. Sep/2016 to Current. Semiannual groundwater sampling event at wastewater treatment facility. Field activities: Site wide water levels collected prior to sampling to determine water table in a 24 hour period. Groundwater sampling method includes low flow using dedicated pump equipment with the exception of 1 well. Water stable parameters are determined using YSI meter. Purge water is collected and disposed in evaporation pond onsite. Well development was also completed in September 2016 at this site. QC of field sheets is also completed.

Staff Scientist, St. Marys Refining Company, St. Marys WV**.** May/2017 to Current. Field activities: Site wide water levels collected prior to sampling to determine water table in a 24 hour period. Sampling methods include low flow. YSI meter is used to determine stable parameters. Pumps are lowered into wells for stabilization and sampling. Pumps are cleaned thoroughly between wells. Purge water is stored in a portable tank for disposal in onsite wastewater treatment facility. QC of field sheets is also completed.

Staff Scientist, Sabic Plastics Washington Works. Washington, WV. Jan/2017 to Jan/2017. NPDES sampling observation. Collection of water from treatment tanks.

Staff Scientist, Thermo Fisher. Marietta, OH. Jan/2017 to Jan/2017. NPDES sampling observation. Collection of water from ISCO sampler.

Staff Scientist, AEP Dresden Jan/2017 to Jan/2017. NPDES sampling observation. Collection of water from ISCO sampler.

Staff Scientist, AEP Waterford. Jan/2017 to Jan/2017. NPDES sampling observation. Collection of water from ISCO sampler.

Staff Scientist, Colgate. Cambridge, OH**.** Jan/2017 to Jan/2017. NPDES sampling observation. Set up of ISCO sampler.

Staff Scientist, AMG. Cambridge, OH**.** Jan/2017 to Jan/2017. NPDES sampling observation. Set up of ISCO sampler.

Staff Scientist (II), AK Steel: Middletown. Middletown, OH**.** Feb/2017 to Current. Quarterly walkthrough with experienced professional guide. Field activities: Observed and documented any serious or potential erosional surface along creeks banks including Monroe Ditch, Dicks Creek, and Reach 2. Flow Measurements were also conducted using a flow meter to determine rate of flow in specific intervals of Reach 1 and 2.

Staff Scientist, AK Steel: Middletown. Middletown, OH**.** Feb/2017 to Current. Ground water sampling was conducted in both the Slag Processing Area and in Melt Plant to determine boundary of contamination and for continuing monitoring. Soil and Gas sampling was done at AK Steel North Plant by using gas collection techniques and soil sampling techniques in order to determine TCE contamination.

Staff Scientist, Fort Pickett. Blackstone, Virginia. Jun/2017 to Sep/2019. Field activities: Groundwater sampling of wells at Fort Pickett. All wells were measured for water level and total depth prior to sampling.

The low flow method was used for 5 wells using non-dedicated equipment. YSI meter is used to determine stable parameters. QC of field sheets was also completed.

Staff Scientist, Agri-cycle. Talmo, Georgia. Mar/2018 to Mar/2018. Field Activities. A pilot study was conducted to determine the best method to filter out contamination from an abandoned chicken processing facility on behalf of the Georgia Environmental Protection Division. Control samples were collected prior to filtering. Test samples were collected after bag filters, carbon tanks, and other various decontaminant processes.

Staff Scientist, Solvay Advanced Polymers (Formerly Cytec). Marietta, Ohio. Oct/2017 to Current. Field Activities. The Solvay System Remediation is currently being used to extract contaminations from ground water by means of bag filters and an air stripper. Many parts of the system get clean including Pre and Post side bag filters that need replaced regularly due to high pressure from sludge buildup, Injection filter, and water sensors. Weekly Inspection of the system was done and numerical data were recorded as required. Operations and Maintenance of the site wide terrain were maintained through removal of trees, grass, and other problematic plants.

Staff Scientist, Solvay Advanced Polymers. Marietta, OH. Jan/2019 to Current. 25D sampling was completed by getting the water samples to a certain temperature by means of an immersion chiller. Prior to sampling the immersion chamber was filled with ice and water to chill the metal tube which the sample runs through for a decrease in temperature. Samples were then taken after reaching a cooling point of 8 degrees Celsius or lower.

Staff Scientist, AK Steel. Cambridge, OH**.** Dec/2017 to Current. Ground water sampling was conducted using temporary and permanent installed wells. Samples were collected to determine the boundary of contamination and to determine which temporary wells would be converted into full permanent wells to detect a variety of contaminants including TCE.

Staff Scientist, AK Steel. Hamilton, OH. Dec/2019 to Current. Ground water sampling was conducted on permanent wells using low flow methodologies, by bladder pump, and also by using bailers on less recovering wells. Samples were collected to determine constituents of concern including CN, Metals, Dissolved Metals, Dissolved CN, VOC's, and SVOC's. Field duties also included field contact for lab courier service to ensure quality samples by laboratory.

Staff Scientist, Fort Mcalester. Mcalester, OK. Aug/2019 to Current. Ground water sampling was conducted on permanent wells using low flow methodologies. This includes mostly dedicated pumps to collect VOC's, RSK's, TOC, Dissolved Manganese, SO4, and Nitrate/Nitrite.

Staff Scientist, Promanco. Marietta, OH. Dec/2019 to Current. NPDES Ground water sampling was conducted by ISCO machine. Samples were collected both grab and composite over a 24 hour period to identify constituents of concern levels. These constituents were OG-HEM, Cyanide Total, Chromium Hexavalent, Metals, BOD, and TSS. Samples were then delivered to lab for analysis.

Staff Scientist, PMC Company, Belpre OH. Dec/2020 to Jan/2021. Soil Sampling was conducted on potential volatile contaminated soil. Samples were collected and analyzed for VOC's using a photo ionization detector. The constituents of concern were volatiles, focusing on an old gas station property leaching into the surrounding area.

Staff Scientist, Marietta College, Marietta, OH. Jan/2021 to Dec/2021. Water sampling was conducted at 5 separate entry points to sewer lines to determine and monitor COVID-19 presence on campus. This includes using 5 HACH automated samplers to retrieve samples for a minimum of 4 hours. Samples were then shipped to lab to analyze for presence.

Staff Scientist (II), Cleveland Cliffs Middletown. Middletown, OH. May/2021 to Current. Propane sampling was conducted by a third party group in SWMU 38 and SWMU 39. Water levels and samples

were collected from multiple gas wells as well as gas reading from the wells and a seep along Monroe Ditch.

Staff Scientist (II), Solvay, Willow Island, WV. May/2022 to May/2022. Soil sampling was conducted at multiple locations for detection of Toluene. This was a result of a chemical spill and the area was excavated and cleaned based on the results from the planned sampling for Volatiles. After all samples were collected they were shipped for lab analysis.

Staff Scientist (II), Gavin Lightstone, Cheshire, OH. Mar/2022 to Current. Ground water events consisted of a federal or state sampling procedure and analysis. The federal sampling consisted of low flow purge methodology which also also includes snap sampling and passive diffusion bags. This was conducted site wide at various points. The sampling list could included Radium, Metals, Alkalinity, and Chloride, Fluoride, Sulfate. The state sampling methodology consisted of 3 well volumes purged or purge until dry and return to sample within 48 hours. This list includes Gross Alpha, Gross Beta, Alkalinity, Filtered Metals, NO2, NO3, TOC< and Chloride, Fluoride, Bromide, Sulfate. Samples were couriered or shipped to the lab for analysis.

Staff Scientist (III), Gavin Lightstone, Cheshire, OH. Mar/2022 to Current. Field team leading consists of coordination of sampling activities and onsite client communication. Ground water events consisted of a federal or state sampling procedure and analysis. The federal sampling consisted of low flow purge methodology which was conducted site wide and includes Article III and IV sampling parameters. The sampling list included Radium, Metals, Alkalinity, and Chloride, Fluoride, Sulfate. Gavin state sampling methodology consisted of 3 well volumes purged or purge until dry and return to sample within 48 hours. This list includes Gross Alpha, Gross Beta, Alkalinity, Filtered Metals, NO2, NO3, TOC< and Chloride, Fluoride, Bromide, Sulfate. Samples were couriered or shipped to the lab for analysis. Diagnose/Repair/ Replacement of existing low flow equipment was completed as necessary.

Staff Scientist (III), Cleveland Cliffs Middletown. Middletown, OH. Aug/2021 to Current. Propane sampling was conducted by a third party group in SWMU 38 and SWMU 39. Water levels and samples were collected from multiple gas wells as well as gas reading from the wells and a seep along Monroe Ditch.

Staff Scientist (II), OMNIS Pleasants Power. Belmont, WV. Nov/2023 to Current. Groundwater monitoring consisted of monthly and quarterly events which utilize low flow methodologies using a Grundfos pump. Sampling consisted of purging and stabilizing field readings within a set of parameters before sampling for dissolved metals, TDS, TSS, Alkalinity.

Staff Scientist (III), Waste Management. Parkersburg, WV. Jan/2024 to Current. Sampling consisted of five separate landfill outfalls, one stormwater outfall, and one leachate sampling point requiring an ISCO to be deployed on a timer running for 8 hours. Samples were collected and shipped to their respective labs for analysis. These samples include analysis such as Mercury, Metals, Cyanide, VOC's, BOD, Oil and Grease, etc.. Sampling would be conducted on a monthly basis.

Staff Scientist (III), Gavin Lightstone, Cheshire, OH. May/2024 to Current. Field team leading consists of coordination of sampling activities and onsite client communication. Ground water events consisted of deployment and retrieval, after a recommended period of time, of dual membrane passive diffusion bags along with traditional low flow methods to determine effectiveness of different sampling methodologies. Multiple sized diffusion bags were used during the sampling depending on variables such as availability of water in well column.

Staff Scientist (III), Momentive Performance Materials Inc. Sistersville, WV. Jun/2025 to Current. Groundwater events consisted of sampling procedures in accordance with site needs using low flow methodologies. Events are completed quarterly and the sampling plan is comprised of various sampling lists depending on which quarter is to be completed. Sampling of various sites includes the plant proper area and surrounding areas such as landfills.

EMPLOYMENT HISTORY

Staff Scientist, KEMRON Environmental Services, Inc., Marietta, OH, 8/22/2016- Current

Terry L. Wilfong, Jr., LRS
Regional Manager/Senior Project Manager/Program Manager

Education
BS, Environmental Protection/Science, West Virginia University, 1997
MS Environmental Science, anticipated graduation - 2026, Marshall University

Registrations / Certifications / Training
- Licensed Remediation Specialist (LRS) under West Virginia Voluntary Remediation and Redevelopment Act (#169)
- 40 Hour OSHA Hazardous Waste 29 CFR 1910.120
- 16-Hour OSHA Refresher Course 29 CFR 1910.120
- 8-Hour OSHA Refresher Course 29 CFR 1910.120
- 8-Hour Management/Supervisory OSHA 29 CFR 1910.120 (e)(4)
- Cross-connection Backflow Prevention
- First Aid, Adult CPR
- WV Department of Environmental Protection Well Driller Certification (#WV00314)
- WVDEP Class on EPA Method 5035
- Kentucky Certified Remediation Contractor (#1385)
- IATA Hazardous Material Shipping
- Cross-connection Backflow Prevention
- First Aid, Adult CPR

Terry Wilfong serves as the Regional Manager in charge of the management of technical and administrative issues at KEMRON's Charleston office. He is also responsible for business development, quality assurance, and customer relations issues associated with the office. Mr. Wilfong's specialties include due diligence, underground storage tanks, and management of multi-project portfolios. Mr. Wilfong is responsible for direction, preparation, scheduling, and implementation of field activities at several retail petroleum facilities, industrial sites and commercial facilities, WV Voluntary Remediation and Redevelopment Sites, US EPA Brownfields Sites and CERCLA Superfund Sites throughout the United States. Mr. Wilfong has extensive experience in coordination and evaluation of site investigation activities including assessment of adsorbed, dissolved, LNAPL, DNAPL and vapor-phase impacts. His responsibilities include installation, monitoring, and maintenance of remediation systems including pump and treat, LNAPL recovery, soil vapor extraction, air sparging, bioremediation systems and mobile enhanced vacuum extraction units. Field work includes RCRA, CERCLA and LUST field investigation, field screening, monitoring well installation, UST removal, and contractor oversight during remediation activities. Mr. Wilfong also has experience with remedial testing, pump tests, vacuum extraction tests, sparge tests, and rising head tests. Mr. Wilfong has also performed numerous Phase I ESAs and Phase II assessments for various private clients for potential real estate transactions in several states. As a WVDEP UST Certified Class B Remover, Mr. Wilfong has provided oversight or coordinated >50 UST system removal/closures. Mr. Wilfong began his professional career as an Environmental Technician in 1998 and has managed the investigation, remedial strategy, implementation of corrective actions and closure of >100 Leaking UST sites in his career.

Terry began his environmental career at KEMRON in 1999 as a Staff Scientist and currently serves as Regional Manager at KEMRON's Charleston, WV office. With experience in various regulatory programs and diverse clientele, he specializes in due diligence, UST/AST compliance and remediation, site investigation, remediation system design, in-situ remedial injections, and management of multi-project portfolios. As a seasoned Project/Program Manager, Terry has addressed environmental liabilities and provided regulatory guidance for numerous private and government clients. As Regional Manager, Mr. Wilfong is responsible for business development, career development, project budgeting, project scheduling, work scope development, project billing issues, report review, regulatory agency negotiations, and client relations and business development. Mr. Wilfong's technical experience also includes management, direction, and implementation of Voluntary Remediation/Brownfields sites; RCRA Facility Investigations under RCRA Corrective Action programs and management of field activities at a CERCLA Superfund site. Terry is also responsible for personnel scheduling, site management, site health and safety officer and participation in the KEMRON Quality Control Group. Mr. Wilfong currently serves as a Licensed Remediation Specialist under the West Virginia Voluntary Remediation and Redevelopment program and has extensive experience with risk-based corrective action and remedial evaluation including the use of fate and transport modeling, vapor intrusion modeling and development of site-specific target levels.

SELECTED PROJECT EXPERIENCE

Project Manager/Field Coordinator, Assessment and Cleanup Activities, US EPA Brownfields Site. Served as Project Manager for site assessment and remediation activities on a former brick manufacturing facility/property located in Barboursville, Cabell County, WV under the West Virginia Voluntary Remediation and Redevelopment Program. Responsibilities for the management of field activities include site assessment, groundwater monitoring wells installation, groundwater sampling, human health and ecological risk assessment preparation, remedial action evaluation and implementation for the site. Following implementation of risk-based corrective actions and implementation of an Environmental Restrictive Covenant, the site received a Certificate of Completion. Site COCs included VOCs, SVOCs, Metals, and PCBs.

Project and Field Coordinator, EPA Hazardous and Petroleum Brownfields Assessment Grants, City of Nitro, WV
Served as Project and Field Coordinator for administration of one (1) $200,000 EPA Petroleum Brownfields Assessment Grant and two (2) $200,000 EPA Hazardous Brownfields Assessment Grant projects in and around the City of Nitro, West Virginia. KEMRON completed this work in conjunction with their subcontractors Environmental Resources & Consulting, LLC (ERC) and Stromberg/Garrigan & Associates (SGA). These Brownfields Assessment Grant projects involve inventory and prioritization of hazardous and petroleum sites in and around the City of Nitro. The site inventory and prioritization processes have been completed and 54 hazardous sites and 54 petroleum sites were identified in and around the City of Nitro.

We eliminated all ineligible petroleum and hazardous sites identified through the site inventory process due to various factors including CERCLIS listing, NPL Listing, Outside Survey Area, Can Not Locate/Not Valid Site Location, and Priority 1 WVDEP Petroleum Site (High Priority). Property Approval Questionnaires were submitted to EPA Region III for one (1) potentially eligible petroleum site and three (3) potentially eligible hazardous sites.

A Property Approval Questionnaire was completed for each potentially eligible site and submitted to the EPA Region II Brownfields Coordinator for approval. EPA Region III approved the Property Approval Questionnaires for the one (1) petroleum site and three (3) hazardous sites and issued a Site ID number for each site. Site-specific Access Agreements for each site were obtained from the property owners. Following receipt of the executed Access Agreements, Phase I ESAs were conducted on each site. Phase II ESAs were conducted at two (2) Hazardous Brownfields sites based upon the Phase I ESA findings and redevelopment potential.

Project Manager/Licensed Remediation Specialist, VRP Activities, Large Medical Facility
Serving as Project Manager and Licensed Remediation Specialist for site assessment, risk assessment and remediation activities at a large medical facility, a 122-bed facility with inpatient and outpatient care, emergency services, surgical care, and diagnostic services in southern West Virginia. Contaminants of concern are sourced by current and historical operation of petroleum underground storage tanks and the disposition of medical incinerator ash and construction debris on-site. Management of the site remediation is being conducted through the WVDEP Voluntary Remediation and Redevelopment Act Program with oversight by US Environmental Protection Agency representatives in accordance with the PCB Regulations under the Toxic Substances Control Act of 1976.

Project Manager/Licensed Remediation Specialist, VRP Activities, Former Scrap Metal Recycling/Processing Facility
Serving as Project Manager and Licensed Remediation Specialist for site assessment, risk assessment and remediation activities, including PCB removal actions, at a former scrap metal recycling/processing facility in a heavily industrialized area. Contaminants of concern include semi-volatile organic compounds, metals, trichloroethylene and PCBs. Management of the site remediation is being conducted through the WVDEP Voluntary Remediation and Redevelopment Act Program with oversight by US Environmental Protection Agency representatives in accordance with the PCB Regulations under the Toxic Substances Control Act of 1976.

Licensed Remediation Specialist, Former and Current Retail Petroleum Facilities
Served as the Licensed Remediation Specialist for site assessment and risk assessment activities at a former Railroad Rail and Maintenance Yard being redeveloped as a shopping plaza/strip mall being managed in the West Virginia Voluntary Remediation and Redevelopment Program (VRP). Activities included preparation of an Application to Participate and VRP Agreement, development of a Sampling and Analysis Work Plan, provided guidance during site

investigation activities, and preparation of a Supplemental Site Assessment Report. Site COCs included volatile organic compounds (Methyl tert-butyl ether (MTBE) and Naphthalene), semi-volatile organic compounds (SVOC's), metals, and Mercury. Following activities, a Certificate of Completion was issued and non-residential land use restrictions were removed allowing potential development of hotels on the property.

Licensed Remediation Specialist, Former and Current Retail Petroleum Facilities
Served as the Licensed Remediation Specialist for site assessment and risk assessment activities at numerous former and current retail petroleum facilities that are being managed in the West Virginia Voluntary Remediation and Redevelopment program. The program enabled the use of risk based corrective action levels for remedial goals to facilitate property redevelopment through remediation, use of engineering controls and environmental restrictive covenants. COCs evaluated included VOCs, SVOCs, Metals, PCBs, and Dioxins.

Project Director/Licensed Remediation Specialist, VRP Activities, Former Service Station Property
Served as Project Director and Licensed Remediation Specialist for site assessment and remediation activities ay a former service station property located in Chauncey, Logan County, West Virginia under the West Virginia Voluntary Remediation Program (VRP). The Chauncey area surrounding the subject property had recently been the subject of increased media attention and investigations by both WVDEP and the United States Environmental Protection Agency (US EPA) and the subject property is among the properties being investigated by WVDEP and US EPA.

Project Director, Site Assessment/VRP Activities, Former Service Station
Served as Project Director for site investigation activities to define the nature and extent of soil and groundwater impacts at a former service station property in Ceredo, WV. Directed site investigations activities at the site on behalf of the new property owner under the WVDEP UST program, including Geoprobe soil and groundwater investigations and groundwater monitoring well installation and sampling.

Project and Filed Coordinator, VRP Landfill Site
Served as Project and Field Coordinator for site investigations and corrective actions at a municipal/industrial landfill being addressed under the West Virginia Voluntary Remediation and Redevelopment Program (VRRP). VRRP activities are being jointly addressed by an industrial landfill contributor and a local municipality. Project activities to date include development of an historical site profile, assistance with VRRP Application preparation, Site Assessment Workplan preparation, Sampling and Analysis Plan (SAP) preparation, geophysical investigations to define the extent of landfill wastes, groundwater monitoring well installation, soil/waste/groundwater sampling, excavation and disposal of landfill wastes from surrounding residential properties, landfill capping, Citizens Advisory Panel participation, and coordination with industrial client, local municipality, local residents, and WVDEP Office of Environmental Remediation.

Project Manager, Mercury-Containing Flooring Abatement, Tertiary Educational Institution
Responsible for the evaluation, design and coordination of mercury containing flooring material abatement within a College Student Recreation Facility. Activities included the assessment and repair of drainage issues within the structure; assessment of flooring materials damaged by water; identification an containerization of mercury containing polyurethane base flooring material beneath the gymnasium flooring; planning and coordination of flooring removal (including abatement of mercury-containing polyurethane); and the design and coordination of an air monitoring program to ensure student safety within the Recreation Center during abatement.

Project Manager, Pilot Testing O&M, Superfund Site
Responsible for the management of field activities including groundwater sampling, remedial system construction, operation and maintenance, and evaluation of pilot test data to determine final remedy for groundwater impacts at a CERCLA Superfund site. Remedial technologies evaluated through pilot test activities included Biosparging as well as Peroxide, Sodium Persulfate and Ozone Injection. Also responsible for site management including protection of human health and environment, off-site property access negotiations, site security, disposal of IDW and incidental construction support.

Project Manager, US Army Corps of Engineers, US General Services Division, AST Product Removal and Cleaning TO, Fort Detrick, Building 190
Project Manager for the removal of approximately 2,000 gallons of diesel, subsequent cleaning and closure of a 250,000 gallon Above Ground Storage Tank (AST) and the removal of approximately 82,000 gallons of #6 heating oil, subsequent cleaning and closure of a 650,000 gallon AST at Fort Detrick Building 190 in Frederick, MD. KEMRON was responsible for preparing a Work Plan, including Project Management Plan, Quality Control Plan, and Site Specific Health & Safety Plan/Accident Prevention Plan. Due to the high viscosity of the #6 heating oil, KEMRON reconnected former steam heating piping to the 650,000 gallon AST and designed a shop built portable heating coil to liquefy the heating oil so that it could be pumped to a heated frac tank and subsequently transported off-site for recycling. KEMRON successfully completed the project within the Period of Performance.

Program Manager: Managed budgets, prepared cost estimates, project reporting, project coordination, project reimbursement and performed environmental regulatory coordination at numerous retail petroleum sites in West Virginia, Ohio, Kentucky, Pennsylvania, Tennessee and Georgia (Par Mar Oil Company, Little General Stores, Par Mar Stores); and Industrial facilities for Frontier (14 state Region), and Union Carbide/DOW.

Program Manager: Supervise, coordinate and direct a team of personnel to implement BOS 200® Carbon Trap and Treat Technology at numerous leaking UST sites throughout WV, OH and KY. Negotiated corporate relationship with product inventor to advance KEMRON as an independent injection contractor. Activities conducted as part of BOS 200® injections include the implementation of a Remedial Design Characterization, analysis of multiple soil and groundwater samples throughout the vertical and horizontal extent of the areas of impact, injection design and high pressure injection of BOS 200®, microbial inoculations and nutrient supplements.

Task Manager: Served as Task Manager for all activities associated with the assessment and closure of four (4) underground storage tank (UST) systems located at Buildings 227, 205, 307 and 313 in Joint Base Myers – Henderson Hall, Arlington, Virginia. All work was being conducted on behalf of the U.S. Army Corps of Engineers (USACE), Baltimore District as part of a Fixed Priced Remediation (FPR) project under a Performance Based Acquisition (PBA). The Task/Delivery Order (TO) for activities was issued under KEMRON's Multiple Award Environmental Services (MAES) Contract and included provisions for the delineation of contaminants in subsurface soil surrounding three (3) underground storage tanks (USTs), closure-in-place of one (1) UST, removal of three (3) USTs, and excavation and disposal of contaminated soil. Mr. Wilfong facilitated the preparation of the Project Management Plan; the Work Plan (including the Sampling and Analysis Plan (FSP and UFP-QAPP), the Accident Prevention Plan, Storm Water Control/Storm Water Management Plan and Waste Management Plan); and the Site Investigation and UST Closure Report following activities. Additionally, Mr. Wilfong coordinated all field activities for the project.

Project Manager: Managed all field activities associated with the closure of two (2) 20,000-gallon, number 6 heating oil underground storage tanks (USTs) at Fort Detrick in Frederick, MD on behalf of the Baltimore District of the US Army Corps of Engineers. Activities conducted as part of closure activities included the excavation, shoring, removal, cleaning and scrapping of the two (2) 20,000-gallon USTs; removal, cleaning and scrapping of two (2) steel above ground storage tanks (ASTs); demolition of AST secondary containment basins; cleaning removal and disposal of approximately 300 feet of four (4) inch insulated steel product line and two (2) inch insulated steel steam line; excavation, transport and disposal of approximately 900 tons of petroleum impacted soil; recovery, transport and disposal of approximately 5,000 gallons of petroleum impacted groundwater; backfill and reclamation. Activities resulted in a successful tank closure, closure of a pre-existing environmental leak and very favorable CPAR Ratings from the Corps.

Project Manager/Site Supervisor: General Services Administration (GSA) Contract, multiple locations. Project Manager for UST closure/closure-in-place services at five facilities under a GSA Contract. Mr. Wilfong provided direct oversight of UST closure-in-place activities at the Parkersburg Federal Building in Parkersburg, WV. Prior to conducting UST closure-in-place activities, KEMRON conducted site investigation activities to determine the presence/absence of subsurface impacts utilizing Geoprobe® direct-push technology. Closure-in-place activities included the removal of product from the UST, purging the UST until the internal UST atmosphere reached a lower explosive limit of <10%, and to remove the tank bottoms, sludge, and rinsate from the UST followed by filling the UST with concrete. Mr. Wilfong also provided direct oversight of UST removal activities at the Abingdon Federal Building in Abingdon, VA and the United States Forest Service Building in Elkins, WV. As the project manager,

was responsible for the day to day interaction with the client, ensuring work was completed in accordance with contractual requirements, compliance with schedule and budgetary requirements.

Project Manager/Site Supervisor: Managed all field activities associated with the closure of two (2) 20,000-gallon, number 6 heating oil underground storage tanks (USTs) at Fort Detrick in Frederick, MD on behalf of the Baltimore District of the US Army Corps of Engineers. Activities conducted as part of closure activities included the excavation, shoring, removal, cleaning and scrapping of the two (2) 20,000-gallon USTs; removal, cleaning and scrapping of two (2) steel above ground storage tanks (ASTs); demolition of AST secondary containment basins; cleaning removal and disposal of approximately 300 feet of four (4) inch insulated steel product line and two (2) inch insulated steel steam line; excavation, transport and disposal of approximately 900 tons of petroleum impacted soil; recovery, transport and disposal of approximately 5,000 gallons of petroleum impacted groundwater; backfill and reclamation. Activities resulted in a successful tank closure, closure of a pre-existing environmental leak and very favorable CPAR Ratings from the Corps.

Program Manager: Telecommunications Facilities. Served as the Program Manager for site assessment, site remediation and regulatory compliance activities for a major telecommunications firm over a 14 state region. Activities included coordination of emergency response efforts, UST compliance assistance, Phase I/II ESA, AS/SVE system O&M, groundwater monitoring, oversight and reporting activities related to the removal of waste oil containers and in-ground hydraulic vehicle lift system, cleaning and sampling of telecommunication manholes in commercial areas and waste characterization and disposal.

Program Manager: Management of remedial investigation, remediation, permitting and reporting at >80 retail petroleum facilities. Activities were conducted in compliance with federal and various state regulations (WVDEP, OSFM BUSTR and KYDEP).

Program Manager: UST Facilities (WV, OH and KY). Served as Program Manager for environmental compliance activities at current and former retail petroleum facilities in WV, OH and KY under the WVDEP LUST program, OSFM BUSTR and KYDEP USTB, respectively. Project activities included soil and groundwater investigations, monitoring well installation, excavation and off-site disposal of petroleum-impacted soil, pilot testing of potentially applicable in-situ remedial technologies, Corrective Action Plan preparation and implementation, remediation system design/installation/O&M, groundwater monitoring, reporting and coordination with WVDEP and BUSTR.

Project Manager: O&M at an Inactive Trucking Terminal. Participated in the development of the initial work scope for a remediation system O&M contract under RCRA post-closure monitoring requirements at an inactive trucking terminal (UCC PTO), formerly operated by a specialty chemical manufacturing company. Implemented the contract and served as project manager and project director for the first and subsequent annual contract periods. Project O&M activities included weekly, monthly and quarterly site inspections in accordance with RCRA post-closure requirements and client requirements; semi-annual groundwater monitoring; O&M of groundwater pretreatment system, LNAPL recovery activities and general site maintenance.

Field Manager: Field management of groundwater monitoring well and recovery well installation activities at the Union Carbide Marietta Superfund site in Marietta, Ohio under EPA Region V and OEPA oversight.

Team Technician: Characterization of Natural Gas Compressor Station. Assessment and evaluation of sites for possible environmental impacts utilizing computer technology using Franklin Database software. Utilized Geoprobe7 technology for characterization of soil and groundwater and drill rig equipped with hollow stem augers for the installation of groundwater monitoring wells.

Field Technician: UST System Database Verification at USPS Sites. Served as field technician completing site visits at approximately 100 United States Postal Service Appalachian District facilities in West Virginia and Virginia to verify UST system information contained in the USPS Appalachian District tank system database. Updated the tank system database information based on field inspection findings.

Team Leader: Implementing Groundwater Sampling Program at Natural Gas Compressor Station. Coordinated RCRA groundwater sampling activities under strict EPA Consent Order protocol and requirements. Responsible for serving as Site Health and Safety Officer.

Field Technician: Retail Petroleum Sites. Coordinated and conducted groundwater sampling, stream sampling and soil sampling for retail petroleum facilities, commercial facilities and industrial sites.

Engineering Technician: Natural Resources Conservation Service. Assisted in drafting and design of acid mine drainage treatment facility using VCAD computer software. Other responsibilities included surveying channel modifications.

Field Technician: Site Maintenance and Environmental Cleanup. Responsibilities included use of bioremediation to address spills as well as testing and treatment of purged water. Used bioremediation for the treatment of impacted soil and water.

Field Technician: Site Investigation and Characterization. Utilized Geoprobe technology for characterization of soil and groundwater at the Aristech Chemical facility in Haverhill, OH to evaluate the extent of impacts resulting from a phenol release.

Field Technician: Site Investigation and Characterization. Utilized Geoprobe technology for characterization of soil and groundwater at the Ames manufacturing facility in Parkersburg, WV under WVDEP Waste Management guidance to evaluate potential releases in specific waste management areas.

Field Manager: Monitoring and Groundwater Recovery Well Installation. Field management of groundwater monitoring and recovery well installation activities at retail petroleum LUST sites in WV and OH. Mr. Wilfong has installed >50 monitoring wells at LUST sites.

Field Technician: Site Investigation and Characterization. Utilized Geoprobe technology for characterization of soil and groundwater at Cleveland-Hopkins International Airport in Cleveland, OH as part of NEPA activities.

Field Manager: Remediation System Operation and Maintenance. Field management of groundwater remediation system O&M activities at retail petroleum LUST sites under the WVDEP and OSFM BUST LUST programs.

Field Manager: Recovery System Operation and Maintenance. Field management of groundwater recovery system O&M activities at the Union Carbide PTO facility in Institute, WV under RCRA post-closure requirements.

Field Technician: Site Investigation and Characterization. Utilized Geoprobe technology for characterization of soil and groundwater at an estimated 20 Speedway SuperAmerica retail petroleum sites under the WVDEP and OSFM BUSTR LUST programs.

Staff Scientist: Remediation System Design, Installation and O&M. Responsibilities included assistance with planning and implementation of coordinated pilot testing, design and installation of air sparge/soil vacuum extraction (AS/SVE) systems at several retail petroleum facilities in WV under the WVDEP LUST program. Coordinated the activities of field staff for groundwater monitoring, site investigation and O&M efforts.

Environmental Scientist: Performed >20 Phase I/II Site Assessments for retail petroleum sites in West Virginia under the WVDEP LUST program.

Staff Scientist: Performed remediation system O&M at an inactive trucking terminal, formerly operated by a chemical manufacturing company. O&M duties included RCRA groundwater sampling, groundwater pump and treatment system operations, product recovery, and groundwater monitoring under RCRA post-closure requirements.

Staff Scientist: RCRA Facility Investigation. Conducted an RFI subsurface investigation under the EPA Region III RCRA Corrective Action program for an inactive trucking terminal with DNAPL concerns in addition to soil and groundwater impacts. Project activities included soil and groundwater investigations using Geoprobe technology, surface water and sediment sampling in a nearby watercourse, groundwater monitoring and field data preparation.

Staff Scientist: RCRA Facility Investigation. Conducted an RFI subsurface investigation under the EPA Region III RCRA Corrective Action program at an active Industrial plant with soil and groundwater impacts. Project activities included soil and groundwater investigations using Geoprobe technology and Groundwater Monitoring Well Installation, surface water and sediment sampling, groundwater monitoring and field data preparation.

Staff Scientist: Risk Based Site Investigation and Reporting. Conducted UST system closure activities and site investigations and reporting in accordance with Ohio Bureau of Underground Storage Tank Regulations 1999 Closure and Corrective Action Rules for approximately five active retail petroleum LUST sites.

Staff Scientist: CERCLA Facility. Conducted groundwater sampling at an EPA Superfund Site. Also conducted oversight for EPA dioxin sediment sampling at the site.

Staff Scientist: CERCLA Facility. Coordinated and conducted site activities at a CERCLA facility in Ohio on behalf of a specialty chemical manufacturer, associated with aquifer testing, groundwater recovery well and groundwater monitoring well. Calculated and reported monthly leachate collection and groundwater recovery discharge totals for flow to off-site treatment facility.

Engineering Technician: Natural Resources Conservation Service. Assisted in drafting and design of an acid mine drainage treatment facility located in Kingwood, WV. Received an Employee Spot Award for his contribution to the project.

EMPLOYMENT HISTORY

Staff Scientist/Project Manager/Senior Project Manager/Program Manager/Regional Manager, KEMRON Environmental Services, Inc., Charleston, WV, 08/1999 to Current

Environmental Scientist/Field Technician, IT Corporation, Charleston, WV, 02/1999 to 08/1999

Field Technician, Fluor Daniel, GTI, Charleston, WV, 08/1998 to 02/1999

Assistant Manager, Parts America, Fairmont and Morgantown, WV, 09/1995 to 08/1998

Loss Prevention/Human Resources Assistant Manager, Elder Beerman, Morgantown, WV, 09/1994 to 05/1995

Engineering Technician, Natural Resources Conservation Service, Philippi, WV, 05/1994 to 09/1994 and 05/1995 to 09/1995

LUKE VON OLDENBURG, CERTIFIED INDUSTRIAL HYGIENIST / CORPORATE HEALTH & SAFETY OFFICER, CIH, CSP, CHMM, CIEC

Mr. von Oldenburg is a Certified Industrial Hygienist, a Certified Safety Professional, a Certified Hazardous Material Manager, an Environmental Chemist, Certified Asbestos Inspector, Certified Lead Base Paint Inspector, Certified Indoor Environmental Consultant, Remediation Project Manager, and Emergency Responder and former US EPA federal contractor. He has over 23 years' [as of May 2023] experience.

He is on the national board of directors for the Indoor Air Quality Association (IAQA) and the regional board for the Alliance for Hazardous Materials Professionals (AHMP – IHMM).

Currently his position is the Senior Industrial Hygiene Manager and Corporate Health and Safety Officer. As such, he provides experience and knowledgeable guidance to key personnel in selecting appropriate engineering controls and/or PPE for numerous hazardous materials and waste.

Education

Bachelor of Science – Chemistry/Physical Science
Auburn University Montgomery Alabama, 2000

Registrations / Certifications / Training

- CIH (No. 11455 CP), Board for Global EHS Credentialling, 11/2017 (received), 6/2028 (expires)
- CSP (No. 31638) , Board of Certified Safety Professionals, 2016 (received), 2024 (expires)
- CIEC (No. 1607020) , 2016 (received), 2024 (expires)
- CHMM (No. 26372) , Institute of Hazardous Materials Management, 2015 (received), 2025 (expires)
- ICRA, 7/2017
- Six Sigma, 5/2015
- FEMA Incident Command Certification, 2014
- Certified Asbestos Inspector (No. 19375), 4/2023 (received), 4/2024 (expires)
- Lead-Based Paint Inspector, No. 1984, EPA TSCA, 3/2024 (received), Expires 2025
- Certified Wetland Delineator, 4/2003
- IATA Dangerous Goods, 2020
- Hazardous Characterization, 2007
- 40 Hr. HAZWOPER OSHA 1910, 1996
- 30 Hr. Construction OSHA 1926, 2016
- CPR First Aid, 3/2024 (received), 2026 (expires)
- Shoreline Cleanup Assessment Team, 2014
- Natural Disaster Responder, 2007 to current [as of 4/2024]

Previously he was an Emergency Responder under, both, the USEPA START and the USEPA ERRS programs. In these roles he investigated hazardous environments, created budgets, designed projects, lead teams, assigned tasks and collaborated with other groups to investigate and remediate CERCLA sites, RCRA sites, train derailments, and natural disaster incidents. Additionally, he created mock scenarios for training purposes and information transfer in the form of various presentations.

Other experiences include: Being outsourced to the environmental department at the Marine Corp Logistic Base (MCLB) in Albany GA, as well as, performing investigations at other military bases. Additionally, he has created hazardous training exercises, responding to federal emergency responses, creating a hazardous waste program for a laboratory, corresponding with OSHA, working directly with US EPA, FEMA, EMA, and local first responders. Training new employees in HAZCOM and Right-to-Know, onsite OSHA inspections, and in-field hazardous categorization. Worked in Level A, B, C and D. Also is rad trained and experience.

Also, experienced in hazardous indoor air investigations, mold inspections, asbestos inspector, radon testing, lead awareness, and industrial hygiene investigations. Lead team investigations with the concern for chemical impacts of various media. Conducted environmental remediation, field research, overseeing projects, interpreting and reporting analytical results, maintaining administrative operations, quality control officer, environmental health and safety and budget creations. Also lead emergency response efforts at a federal level (Superfund) while ensuring compliance with federal and state and local regulations.

SELECTED PROJECT EXPERIENCE

Occupational Health and Safety Manager. LTI: June 2019. Safety Manager for **i**nvestigating potential isocyanate exposure and hexavalent chromium exposure. Also performed an auditory survey of the facility so the company could create an OSHA auditory program and particulate impact studies. Additionally, performed and OSHA audit and OSHA documentation.

Occupational Health and Safety Manager: TRC. April 2020. Created a program, and lead a team to apply disinfectant for the corona virus and performed ATP testing as an indirect monitoring test.

International Emergency Responder. Rosewood Little Dix Bay – Hurricane Irma-International, UST: January 2018. Fuel release investigation in Virgin Gorda British Virgin Island. Lead a team to investigate two 10,000-gallon fuel storage tanks, identified impact areas, identified flammable and hazardous conditions. Performed soil, oil, and groundwater, Performed onsite analytical analysis of PCBs and petroleum product headspace analysis. Performed PPE analysis for remedial efforts.International Emergency Responder - fuel release investigation in Virgin Gorda British Virgin Island. Lead a team to investigate two 10,000-gallon fuel storage tanks, identified impact areas, identified flammable and hazardous conditions. Performed soil, oil, and groundwater, Performed onsite analytical analysis of PCBs and petroleum product headspace analysis. Performed PPE analysis for remedial efforts.

Certified Industrial Hygienist. Lanier Filter Plant: August 2016 – November 2018. IH investigation: Created a sampling program and performed an independent investigation for potential cadmium and lead dust exposure scenario. Collected data and evidence to determine if the current contractors were legitimate or if they were practicing unethical work behaviors. Created an investigation plan based on the heavy metals, and routes of exposure. Coordinated with the laboratory, and documented OSHA, CDC and NIOSH levels. Calculated ATSDR exposure values. Based the sampling investigation on contaminants route of exposure and targeted organs and provided defensible data. Saved the facility over 95% of their remediation budget. Saved the client from unnecessarily spending ~ 1 million dollars due to a questionable consultant, manipulated data, and bias sampling.

Certified Industrial Hygienist. VA-Atlanta (MOB): October 2018. IH investigation: Created an indoor air quality program to collect data to be used to settle debates between labor and management and to assist management renegotiate building maintenance contracts (air exchange rates).

Emergency Reponder. Birmingham VA Hospital –September 2016. Emergency responder for Indoor Air Quality and Asbestos fiber impact due to HVAC contractor miscommunication. Potential liability case due to contractor cutting into suspect asbestos pipe wrap.

Emergency Responder. GDOT – Warren Robins: November 2015. Due to a methane gas scenario (welder's assistant got severely burned from a methane fire ball initiated by a welding spark) I was called in to create a program to monitor the situation and create an emergency action plan. Investigated the area, monitored future work and created a safety program. Although methane was still present, under my direction the work was completed and no further injuries.

Safety and Occupational Health Manager. Gold King Mine Colorado /USEPA – Animas River: August 2015 - October 2015. In-field EHS for an US EPA emergency response. Safety Officer for several contractors, and federal employees. EHS Officer for a 4-million-dollar remediation – water impact – mine remediation. This was an ICS federal response. Also provided IAQ (mold, asbestos, mVOCs) surveys on temporary make-shift offices, and air quality surveys in the mine.

Quality Control Officer. Vega Baja Puerto Rico Residential Lead Soil & Air Impact: January 2015 - July 2015. Quality Control Officer for a 3.5-million-dollar remediation – soil and air disturbance – heavy metal impacts – removal. Also erosion control inspector and secondary H&S officer. Seven months of field work.

Team Leader. Clinch River Asbestos/USEPA: June 2014 – July 2014. Team Lead - to remove asbestos contaminated material from a USEPA superfund site. Provided Health and Safety air monitoring and perimeter monitoring. Maintained client relationship.

Environmental Health and Safety Manager. Rome Powerhouse Asbestos, Mold, Radon/USEPA: April 2014 – July 2014. Performed site inspections, and maintained personal safety monitoring. Hazardous waste characterization and profiling. Also provided the client with hazardous waste characterization and removal.

Trainer. Homeland Security Training Courses: January 2009 – October 2009. Created and taught a chemical warfare and biological response table top training exercise program to train federal and local officials. Involved local hospitals, 911- agency, local police, fire and utility departments.

Federal Emergency Responder: EPA Region 4 2007 – 2014. Sites included Hurricane Katrina Responder; Graniteville: train derailment responder, Chlorine gas release; Lick Creek: 1,100 gallons of 50% NaOH spill in a small Georgia creek; • East Coast Rail line: 20,000 gallon HCL release during a train derailment in Florida.

Flex-A-Form, Anderson, SC: June 2011 to May 2012
Lead START Responder - Superfund/Superfund/CLA site. Chemical warehouse cleanup and FIFRA scenario – tested, categorized and sampled over 1000 containers. Directed the bulking of over 10,000 gallons of hazardous liquids, and 375 pounds of hazardous solids, directed the removal of over 9,000 tons of arsenic impacted soil, identified asbestos tiles, over sought 26 drums of lab packing, removal of low-level rad material. Defused a chemical bomb. Also performed a Wetland and Creek restoration and Phytostabilization. Worked with Region IV criminal investigation unit and OSCs. The data we collected lead to the owner being criminally charged and sentenced.

EMPLOYMENT HISTORY

KEMRON Environmental Services, Inc. May 1, 2023 – Present, Corporate Safety Manager

United Consulting Group • Norcross Georgia, • Nov. 2015 – April 2023 • Full Time
Certified Industrial Hygenist/Corporate Certified Health and Safety Officer. As the Corporate Health and Safety Officer and Senior Industrial Hygiene Manager, led the corporation to a higher safety rating and fewer incidents. Investigated worker and environmental conditions, anticipated, evaluated, and prevented unfavorable impacts conditions. Created a new program

to meet the company goal of a zero accident program. Created the program and a budget, trained and re-trained staff, and educated clients.

Certified Industrial Hygienist, a Certified Safety Professional, a Certified Hazardous Material Manager, authorized OSHA trainer, Environmental Chemist, Asbestos Inspector, Lead Base Paint Inspector, Certified Indoor Environmental Consultant, Remediation Project Manager, and Emergency Responder and former US EPA federal contractor.

He is on the national board of directors for the Indoor Air Quality Association and the regional board for the Alliance for Hazardous Materials Professionals.

He provided experience and knowledgeable guidance to key personnel; served as lead IAQ manager for 'unknown building odors'; mold investigation, prevention and mitigation; performed hazardous assessments; advised on proper OSHA safety methods; selected appropriate engineering controls and/or PPE; provided presentations to update, educate, and certify; and created solutions for hazardous situations.

Previously he was an Emergency Responder under, both, the USEPA START and the USEPA ERRS programs. In these roles he investigated hazardous environments, created budgets, designed projects, lead teams, assigned tasks and collaborated with other groups to investigate and remediate CERCLA sites, RCRA sites, train derailments, and natural disaster incidents. Additionally, he created mock scenarios for training purposes and information transfer in the form of various presentations.

Experiences include: Creating hazardous training exercises, responding to federal emergency responses, creating a hazardous waste program for a laboratory, corresponding with OSHA, working directly with US EPA, FEMA, EMA, and local first responders. Training new employees in HAZCOM and Right-to-Know, onsite OSHA inspections, and in-field hazardous categorization. Worked in Level A, B, C and D. Also is rad trained and experience.

Also, experienced in hazardous indoor air investigations, mold inspections, asbestos inspector, radon testing, lead awareness, and industrial hygiene investigations. Lead team investigations with the concern for chemical impacts of various media. Conducted environmental remediation, field research, overseeing projects, interpreting and reporting analytical results, maintaining administrative operations, quality control officer, environmental health and safety and budget creations. Also lead emergency response efforts at a federal level (Superfund) while ensuring compliance with federal and state and local regulations.

Environmental Restoration LLC • Morrow Georgia, March 2014 – November 2015 • Full Time
Remediation Manager – Providing cost effective hazardous wastes material management and removal. Emergency Response, Site Remediation Manager for the USEPA (Superfund Site). EHS manager and monitoring scientist.

Remediation Manager for a national environmental remediation firm based out of St. Louis.
Gold King Mine Release in Silverton Colorado. - US EPA response program - Site Safety Officer for a federal response program.
Landfill restoration in Puerto Rico - Quality Control Officer and Health and Safety for a seven month heavy metal abatement project.
Rome Power Plant Georgia - Health and Safety / remediation Manager for an asbestos removal project.

Oneida Total Integrated Enterprises • Marietta, GA• April 2007 – March 2014 • Full Time
Senior Project Manager/ Envionmental Chemist – Directed teams during emergency responses and removal remedial action projects. Provided cost effective hazardous wastes solutions for the USEPA. Provided technical assistance and directing field research and analysis initiatives. Created sampling and analysis plans, as well as, health and safety programs**.** Provide oversight of federal programs and ensure compliance at the state and federal level. Instructor for EPA and Homeland Security training.

Under the US EPA Superfund Technical Assessment Response Team contract (START) - Senior emergency contractor to CERCLA and RCRA sites. Communicated directly with USEPA, GAEPD, SCDHEC, FDEP, NCDENR and ADCNR, as well as, EMA and local officials.

Flex A Form - Anderson SC - Project Manager for a year long assessment and abatement of a make-shift, chemical facility. Field testing, screening, sampling of arsenic related compounds. Hazardous characterization, real-time field testing, and chemical separation for proper disposal. Additionally, sediment erosion control designs, and health and safety plan development.

Ranger Georgia - tanker release of 50% NaOH into a creek. Lead responder to chemical release, under US EPA program.

DHS program trainer - Hamilton County TN. Developed a Department of Homeland Security training exercise.

The Shaw Group (acquired by CB&I) • Alpharetta, GA •September 2000 – March 2007 •
Environmental Chemist –

Marine Corps Logistic Base (MCLB) Albany GA - Project Manager lent to the the military environmental branch for assistance with the waste management, hazardous waste manifests, RCRA concerns, and impact studies.

Cell tower assessment - performing a limited NEPA assessment for cellular tower impacts.

Fuel line release - lead responder to fuel releases at Hartsfield International Airport - and at Robbins Air Force base in Warner Robbins, Georgia.

Sound Survey in Temple Georgia - performed a sound survey in a manufacturing facility under OSHA regulations.

Katrina - hurricane responder under US EPA

Avondale Mill - chlorine gas train derailment - responder - textile facility.

RAWA S. KOHLS
PROGRAM CHEMIST

Education
BS, Chemistry, Eastern Michigan University, 1986

Registrations / Certifications / Training
- 40 Hour HAZWOPER, 1992 and 2017
- RCRA Hazardous Waste Mgmt
- DOT HazMat Shipping
- OSHA Confined Space Entry
- NIOSH 582 – Asbestos Evaluation (PCM)
- CPR/First Aid Training
- Stormwater Management Certification – Construction Site

Technical Experience / Accomplishments
- 39 years of combined professional experience
- 6 years of commercial environmental analytical laboratory experience in GC, AA, Microscopy, Wet Chemistry
- 5 years of field experience, including environmental oversight, sampling and environmental compliance.
- 32 years of experience directly related to environmental investigations and remedial actions as part of a Contractor management team. Including data validation and QAPP preparation.
  Data validation experience includes review of analysis using GC, GC/MS, HPLC, LC/MS/MS, ICP, ICP/MS, AA, GFAA, Cold Vapor, IC, Spectrophotometry and wet chemistry

Ms. Kohls has extensive and diverse environmental chemistry experience from sample collection and instrumental analysis through managing environmental chemists and associated quality assurance/quality control. Field experience includes real-time air monitoring of mercury, and asbestos evaluation in the field using phase contrast microscopy (PCM) and data management/reporting. Field experience also included numerous project oversight of demolitions, waste disposal, soil erosion measures, environmental compliance and various activities for potential impacts. She also provided decommissioning oversight of activities including lead abatement and regulated materials.

She excels at assessing and presenting how testing methods and environmental data quality may impact data usability. She has highly developed problem solving and decision-making abilities with strong diplomatic communication skills. She is focused on demanding environments and highly adept at managing multiple projects simultaneously. She actively builds relationships with senior project leaders, regulatory agencies and other stakeholders. Ms. Kohls has experience with successful management of environmental laboratory programs, preparation and implementation of project/program documents (QAPPs, FSP/SAPs, SOPs, contracts), evaluating/tracking laboratory performance, issue resolution and data quality review with assessment of data usability impact in support of hundreds of environmental investigation and remediation projects.

SELECTED PROJECT EXPERIENCE

Program Chemist, KEMRON Atlanta, GA 7/2021 to Present. Support the environmental laboratory and chemistry needs for KEMRON project teams providing services to Federal clients as well as private industry. Contract laboratories to meet KEMRON and project specific needs and resolve issues to meet project/client objectives. Coordinate data management services within KEMRON, manage data management project budgets, as well as interaction with KEMRON / partner project teams to ensure project objectives are met, Projects include RCRA Facility Investigations (RFIs), remedial investigation/feasibility studies (RI/FS), remedial actions (RA), CERCLA sites, Operations and Maintenance, (O&M) as well as Long Term Monitoring (LTM), Environmental Investigations (EI), and Corrective Measures Studies (CMS).

Prepared UFP and USEPA QAPPs for federal and private industry clients. Conducting various levels (Level I through Level IV) data validation using Department of Defense (DoD) Data Validation Guidance/Modules, USEPA National Functional Guidelines, TCEQ guidance, and various EPA Regional Guidelines, to include organics VOCs, SVOCs, PAHs, pesticides, PCBs, TPH, dissolved gases, as well as inorganics (metals, hexavalent chromium, cyanide, anions, and various general chemistry parameters) in various matrices (soil, groundwater, surface water, soil gas, sediment, incremental soil sampling). Analysis for the parameters contracted and validated included utilizing but not limited to the following laboratory instrumentation; GC-ECD, FID, Purge & Trap, GC/MS, ICP, ICP/MS, AA, CV, IR, IC, spectrophotometry, and titrations.

Assisted in the development and implementation of the KEMRON specific automated data review (ADR) utilizing the EnviroData software tools. The ADR developed allows electronic imports of data, with data qualification/validation performed utilizing the project specified guidelines.

Project Chemist: Fort Tidball/Long Island, outside Kodiak, Alaska, USACE, ADEC – Work includes contracting and coordinating laboratory services and providing chemistry-related support for the confirmation sampling/analysis performed upon completion of the TCRA. The sampling is to demonstrate that groundwater was not impacted by releases from the PCB-impacted soils prior to removal. Project includes preparation of a QAPP and a one-time sampling event. (2023 to present)

Project Chemist: Caney Residential Yards Superfund Site, Montgomery County, Kansas USEPA Region 7. Prepared UFP-QAPP the Remedial Design for Operable Unit 1, backfill confirmation sampling. Contract and coordinate laboratory services under CERCLA to confirm backfill materials used on site is uncontaminated materials. (2024 to present)

Project Chemist: East Troy Aquifer Site, East Water Street, Miami County, OH USEPA Region 5. Prepared UFP-QAPP for the East Troy Contaminated Aquifer Site, Remedial Action under USEPA Region 5. Laboratory services included USEPA contract laboratory program labs, the USEPA Region 5 lab as well as a third party laboratory. Samples were collected to characterize for waste disposal, top soil for confirmation of suitability in restoration and post excavation confirmation samples analyzed for VOC contaminants of concern. (2025 to present)

Project Chemist: Hunters Point Naval Shipyard (HPNS), San Francisco, CA NAVFAC – Work includes contracting and coordinating laboratory services and providing chemistry-related support for the Final Cover for the Remedial Action Parcel E2 project. Project includes stringent weekly air monitoring for particulates, metals, asbestos, and radionuclides. (2021 to 2024)

Project Chemist: Marine Corps Air Ground Combat Center Twentynine Palms, CA NAVFAC - Time-Critical Removal Action at Munitions Response Program Site-01. Contract and coordinate laboratory services, performing data validation oversight supporting the Remedial Action (RA) implementation including soil excavation activities of Munition Response Sites. Sampling and analysis consist of metals and explosives. (2021 to 2023).

Project Chemist: McAlester Army Ammunitions Plant (MCAAP), McAlester. OK USACE EMCX – Contract and coordinate laboratory services under RCRA and CERCLA. Perform data validation supporting the Environmental Remedial Services for CERCLA Long Term Management (LTM) and Corrective Measures Implementation (CMI) per DoD specifications. The LTM and O&M annual sampling includes sampling and analysis of VOCs, dissolved gases, metals, pentachlorophenol and various inorganics. (2021 to 2023).

Project Chemist: Former Lone Star Army Ammunition Plant, Compliance Monitoring – Prepared UFP-QAPP for Environmental Investigation Services (EI) to DoD and TCEQ specifications. Contract and coordinate laboratory services and perform data validation using Automated Data Review (ADR) software supporting the EI activities at six areas. Quarterly sampling and analysis consist of metals, explosives, perchlorate, VOCs, dissolved gases, and various inorganics. (2022 to present).

Project Chemist: Fort Gordon and Gillem Enclave, Fort Gordon, GA Military Reservation. Support soil and groundwater sampling at eight areas. Analysis includes metals, PAHs, SVOCs, pesticides, VOCs, and various inorganics. Prepared UFP-QAPP for the Environmental Investigation Services (EI). Contract and coordinate laboratory services and perform data validation supporting the EI activities at eight areas per DoD specifications. (2021 to present).

Project Chemist: Tooele Army Depot North (TEAD-N), Tooele County, UT, USACE. Coordinate laboratory services and perform data validation supporting the Remedial Action (RA) implementation including soil excavation activities of Munition Response Sites. Sampling and analysis conducted at the site include metals and explosives. (2021 to present).

Project Chemist: Red River Army Depot (RRAD), Texarkana, TX USACE. Coordinate laboratory services and manage data, including data validation oversight (per DoD, TCEQ) supporting the annual groundwater compliance monitoring and sampling under the Interim Corrective Measures plan. Sampling and analysis conducted include VOCs, dissolved gases, explosives, perchlorate, TPH, metals and various inorganics. (2021-present).

Project Chemist: Velsicol Chemical Corporation – Toone, TN, EPA. Lead chemist, coordinate laboratory services and manage data, including data validation oversight (per EPA) supporting the monitoring and maintenance of the North Disposal Area (NDA) remedial action sampling. Sampling and analysis conducted include VOCs, SVOCs, pesticides, herbicides, metals and various inorganics. (2023-present).

Project Chemist: Fort Sheridan Environmental Restoration, Fort Sheridan, Illinois, US Army. Coordinated laboratory services and supporting chemistry needs for the O&M and LTM per DoD specifications. The O&M scope includes sampling leachate for vinyl chloride. As part of the LTM, annual groundwater sampling and analysis is coordinated for VOCs, SVOCs, Pesticides, Metals, and various inorganics. (2021 to present).

Project Chemist: Ottawa Radiation Areas NPL-8 Frontage Property, Lasalle County, IL USEPA Region 5. Coordinated laboratory services, and assisted in facilitating the completion of the Quality Assurance Project Plan in coordination with a KEMRON subcontractor Tetra Tech.

Project Chemist: Confidential Client Houston, TX. Post closure care of closed and capped landfill. Coordinate laboratory services and manage data supporting the LTM groundwater monitoring. Sampling and analysis conducted at the site include metals. Perform data validation per TCEQ guidelines. (2021 to present).

Project Chemist: Confidential Client Houston, TX. Site Remediation, semi-annual LTM groundwater monitoring. Coordinate laboratory services and reviewed data supporting the groundwater monitoring. Sampling and analysis conducted at the site include site specific VOCs, dissolved gases, metals and anions. Perform data validation per TCEQ guidelines. (2021 to present).

Project Chemist: Confidential Client Cleveland, OH, RCRA Facility Investigation and Corrective Measures Study, as well as Operations and Maintenance at the Site. Prepared USEPA Quality Assurance Project Plans and coordinated laboratory services. Review data supporting various activities at the Site including groundwater and surface water monitoring, as well as soil investigations. Perform data validation per USEPA guidance for samples collected at the site including the following constituents; PAHs, Metals, PCBs, TPH (GRO/DRO), and VOCs. (2021 to present).

Environmental Scientist, GHD (formerly Conestoga-Rovers & Associates), Farmington, MI 1/2015 to 7/2021. While employed by GHD, within the Building & Decommissioning group, provided construction oversight at Fortune 100 companies, hazardous materials management during abatement processes, managed monitoring services related to a multitude of contractors and crews involved with a variety of hazardous materials abatement and removal activities. Performed mercury air monitoring using LUMEX RA-914. Assisted in limited environmental sampling prior to demolition activities. Performed regulated materials surveys for building decommissioning. Responsibilities also included summation of findings and technical report writing.

Site Engineer / Environmental Oversight: Confidential Client Warren, MI, Site engineer or coordinator, responsible for coordinating Building Decommissioning Assessment (BDA), Facility Environmental Assessment (FEA) and Regulated Materials Survey (RMS) field activities including file reviews. Oversight of decommissioning and demolition contractors. Acted as primary contact for project contractors, attended Project Team meetings, met with Client Project Managers, and coordinated with the Client Environmental Staff. Inspected work completed by contractors to verify compliance with project/permit requirements. Monitored work site for environmental compliance including storm water projection

measures and unforeseen environmental related conditions. Assisted Site Environmental Staff with technical interpretation of project requirements. (2016-2020)

Environmental Oversight: Confidential Client, Various Locations, Assisted in a regulated materials survey for targeted decommissioning of a 5.5 million sq ft facility. Assisted in the oversight of a multitude of contractors and crews involved with a variety of hazardous materials abatement and removal activities Managed real-time air monitoring program on-site during abatement on a large automotive renovation. Performed on-site analysis for asbestos monitoring utilizing phase contract microscopy and managed analytical data for reporting. Assisted in limited environmental sampling prior to demolition activities and compilation of a Building Demolition Completion Report to meet the requirements of hazardous waste removal record requirements. (2015 and 2020-2021)

Project Manager/Senior Chemist, GHD (formerly Conestoga-Rovers & Associates), Plymouth, MI 5/2002 to 1/2015. While employed by GHD, within the chemistry division, managed the Midwest chemistry group, supported the environmental laboratory programs for various fortune 100 clients, contracted laboratories to meet GHD and project specific needs, and resolved issues to meet project/client objectives. Coordinated data management services within GHD, managed project budgets, as well as interaction with clients and regulatory agencies to ensure project objectives are met, Projects included RCRA Facility Investigations (RFIs), remedial investigation/feasibility studies (RI/FS), brownfield investigations, CERCLA sites, Phase 2 Environmental Site Assessments (ESA), and drinking water under the Clean Water Act (CWA).

Prepared UFP and USEPA QAPPs, and developed GHD chemistry data validation Standard Operating Procedures (SOPs) adopted by all chemists at GHD. Conducted 100's of various levels (Level I through Level IV) data validation and peer review using USEPA National Functional Guidelines, NYSDEC, EPA Regional Guidelines, to include organics PFAS, VOCs, SVOCs, PAHs, pesticides, PCBs, herbicides, TPH, dissolved gases, glycols as well as inorganics (metals, hexavalent chromium, cyanide, anions, and various wet chemistry techniques) in various matrices (soil, groundwater, surface water, soil gas, sediment, incremental soil sampling). Analysis for the parameters contracted and validated included utilizing but not limited to the following laboratory instrumentation; LC/MS/MS, GC-ECD, FID, Purge & Trap, GC/MS, HPLC, ICP, ICP/MS, AA, GFAA, CV, IR, IC, spectrophotometry, and titrations.

Audited analytical laboratories to ensure good laboratory practices are followed, quality assurance/quality control measures are established and followed, and traceability of integrity of samples analyses from sample receipt to final report.

Analytical Program Management: Confidential Client, Automotive Plant, Dearborn, MI, Assisted a major client on a large-scale facility investigation of various matrices, including soil, water, soil gas, sediment and oil. Analysis at the site including various organic (VOCs, SVOCs, PAHs, PFAS, PCDD/PCDF, Pest/PCBs, herbicides, glycols, dissolved gases, NAPL,TPH) and inorganic parameters (including metals, cyanide and various wet chemistry parameters) defined to meet Michigan Department of Environmental Quality objectives. Activities included QAPP preparation, laboratory selection, day to day management of analytical reports and data validation. The program was very challenging due to the need for quick turnaround times, and at times unique analysis. Successfully kept the analytical program on track and on schedule. (2008-2014)

Program Manager: Automotive Plant, Detroit, MI, Assisted a major client on large-scale dealership investigations throughout the United States. Working with various personnel throughout the US and coordinating expedited turnaround times with the program selected laboratories in order to meet project needs. Activities included liaison with the laboratory, day to day management of analytical reports, ensuring that project objectives are met on each investigation. Sampling and analysis included VOC, SVOCs, Low Level PAHs, PCBs, TPH (GRO/DRO/ORO) and metals. Kept the program on track and on schedule within budget. (2010-2013)

Analytical Program Management: Confidential Client, Automotive Plant, Bedford, IN, Assisted a major client on long term monitoring in support of a RCRA Facility Investigation. The investigation includes soil, water and sediment. Various organic (VOC, SVOC, Pest/PCB) and inorganic (metals, cyanide wet chemistry) parameters were monitored utilizing unique low-level methodology in some instances. Activities include laboratory selection, day to day management of the analytical reports, budgeting, data validation, and peer review. Interaction with the client, regulatory agencies and the laboratory in order to meet the challenging project objectives and turnaround times required. Successfully coordinated the data management services in a timely manner and within budget, keeping the program on track. (2005-2012)

Senior Chemist: Columbus OH, Bingham Farms, MI and Plymouth, MI, As a senior chemist/data validator, responsibilities included the following; analytical services procurement and liaison with environmental laboratories, supervision of a staff of 5 chemists and administrative personnel, data validation and assessment using USEPA, National Functional Guidelines, NYSDEC, AFCEE, and DoD, QA/QC officer for numerous Superfund and RCRA investigation and remedial action projects, Development of Superfund, RCRA and DoD quality assurance project plans (QAPPs), analytical data quality assessment, data validation and coordination of laboratory services, and laboratory auditing. (1992-2014)

Analytical Chemist: Ann Arbor & Novi, MI, As an analytical chemist, technically proficient in the operation of a gas chromatograph (GC), for organics (VOCs, SVOCs, pesticides, PCBs, herbicides), atomic absorption (AA), cold vapor (CV) for metals and various wet chemical analysis. Developed standard operating procedures, evaluated and developed new methods for client-specific requirements and performed the function of Acting Supervisor/Analytical Lead as needed. Developed industrial hygiene sampling and analytical guide, published and distributed to clients. (1986-1992)

EMPLOYMENT HISTORY

Program Chemist, KEMRON Environmental Services, Inc., Atlanta, GA, 07/2021 to Present

Senior Environmental Chemist/Environmental Scientist, GHD (formerly Conestoga-Rovers & Associates, Inc.), Plymouth, MI, 05/2002 to 06/2021

Owner – Independent Environmental Consultant, Data Works Professionals, LLC, Plymouth, MI, 1998 to 2002

Environmental Chemist, Parsons Engineering Science, Bingham Farms, MI, 1995 to 1998

Environmental Chemist, Quality Specialist and Environmental Analysts, Inc, Cleveland, OH, 1994 to 1995

Environmental Chemist, ERM, Inc, Columbus, 1992 to 1994

Project Manager / Chemist, Clayton Group Services Laboratory , Novi, Michigan, 1987 to 1992

Chemist, National Testing Laboratories , Ann Arbor, Michigan, 1986 to 1987

Okey Tucker, PE
Senior Engineer

EDUCATION
December 1983 - BS Degree in Chemical Engineering from WV Institute of Technology, Montgomery, WV

Training / Licenses
- Registered Professional Engineer, States of WV, OH, NC, MD and VA
- OSHA HAZWOPER 40 hr trained
- OSHA 10-Hour Course for Construction Safety
- Six Sigma Greenbelt Certification

Mr. Tucker offers over 35 years of experience in environmental regulation interpretation, engineering and project management. He has held positions with the WVDEP, the chemical industry and in consulting. He combines a diverse environmental management background that includes working with regulatory agencies (both state and federal), environmental associations and as a manager in private industry. Mr. Tucker is widely recognized for his expertise in agency negotiations under RCRA, CAA and SDWA. His industrial background brings a unique insight into the problems faced by industry and provides a basis for developing innovative solutions to issues. He has extensive experience with performing EHS compliance audits and developing tools and procedures for compliance.

SELECTED PROJECT EXPERIENCE

Senior Engineer, Confidential Client. Updated air permit to include new plasma cutter. Performed regulatory review and developed emission estimates.

Senior Engineer, Breslube Penn Superfund Site. Providing ongoing technical support for groundwater treatment and remediation project. Provide review and comments on various plans, reports and groundwater extraction treatment system operation.

Senior Engineer, Confidential Client. Provided technical support and PE certification for PCB soil remediation project in Ohio.

Senior Engineer, Multiple private and federal projects. Developed program for use on iPad to capture data in the field for groundwater sampling projects. The program notifies the technician when stabilization has been achieved and produces electronic uploads of the data to a database.

Senior Engineer, Confidential Client. Conducted technical engineering review of previously constructed barrier wall, groundwater monitoring system and elevation survey results to ensure containment of contaminants was still effective.

Senior Engineer, Multiple private and federal projects. Produced multiple data results tables with regulatory limit comparison utilizing Enviro Data database. Produced statistical evaluations of groundwater results using ProUCL and Sanitas software.

Senior Engineer, Confidential Client. Conducted technical review of natural gas line removal project to ensure clients interests were considered and protected to the maximum extent possible.

Senior Engineer, Confidential Client. Conducted air and waste compliance audits on multiple healthcare facilities and made recommendations for compliance improvements.

Senior Engineer, Confidential Client. Conducted air and wastewater compliance audits on multiple manufacturing locations with Title V and NPDES permits.

Senior Engineer, Confidential Client. Evaluation and recommendation of PFAS treatment for an onsite drinking water system to meet regulatory limits.

Senior Engineer, Confidential Client. Producing SARA 311, 312 and 313 reports as well as state air reports.

Senior Engineer, Confidential Client. Performed EHS audit of major transportation facility to assess compliance with air, waste and water regulations. Provided findings as well as options for correcting identified issues.

Senior Engineer, Various projects. Review and PE certification of environmental plans and reports for clients in various states.

Air Compliance Leader Momentive Performance Materials. Responsible for all air compliance aspects at large chemical manufacturing site. Responsibilities included:

- Responsible for maintaining environmental data management compliance software system for site (Essential Suites by Sphera).
- Developed multiple interfaces to import data from laboratories into data management software using Microsoft Access and Excel VBA macros.
- Led a project to upgrade the data management compliance software used for Title V and NPDES compliance for the site. Also responsible for routine management of the data and producing reports including SQL reports.
- Responsible for all air permitting, reporting and compliance aspects at specialty chemical manufacturing facility including Title V Major Source permit and MON MACT compliance including LDAR.
- Assisted multiple Momentive sites with air issues including SARA 311, 312 and 313 reporting as well as RCRA support.
- Developed multiple compliance tools to standardize and streamline compliance in air and water.
- Additional responsibilities include NPDES data management, SPCC compliance and environmental review of capital projects.
- Review of regulatory changes to determine impact to site permits and compliance.

Senior Engineer, Various projects. Providing support for management of analytical and field data related to the projects utilizing a combination of software solutions including Enviro Data, MS Excel and MS Access. Tasks include coordination of laboratory efforts, electronic evaluation and reporting of data, overseeing data validation and input on development of various project plans.

Project Engineer, Confidential Client. Development and updates to various RCRA corrective action documents including RFI Workplans, QAPPs, Data Management plans, etc. covering a variety of issues in a multimedia environment.

Project Engineer, Confidential Client. Provide ongoing technical support, data management and reporting for various O&M activities required under consent decree.

Project Engineer, Confidential Client. Provided reviews and recommendations on proposed wastewater treatment system to be used for treating effluent from stream dredging project for PCB contamination.

Project Engineer, Confidential Client. Served as certifying engineer for the RCRA closure of storage pad and sump. Performed field inspection and produced technical memorandum on condition of units.

SHE Supervisor, Teflon® Unit DuPont, Washington Works, WV. Responsible for safety, health and environmental compliance in the Teflon® unit at DuPont's 2nd largest production facility. Responsibilities included:

- Performance of work and supervision of SHE support staff providing guidance and support on all aspects of safety, health and environmental compliance to Teflon® Division
- PSM Element leader for Teflon® Division
- Compliance and advocacy on new Greenhouse Gas regulations and compliance requirements related to industrial gas suppliers
- Title V application renewal for Teflon® unit consisting of six separate operating units
- Development and implementation of tools for compliance with air operating permits including robust Microsoft Excel workbooks to perform calculations, deviation checks and produce state required air reporting documents (Forms A, B and C).
- Corporate workstream leader for permitting associated with TSCA Compliance Order related to replacement of PFAS with new PMN substance (GenX) used in Teflon® manufacturing processes.
- Data collection and reporting of GenX usage, treatment and releases to the environment to ensure compliance under TSCA order.

Division Engineer, Teflon® Unit DuPont, Washington Works, WV.
Responsible for environmental compliance in the Teflon® unit at DuPont's 2nd largest production facility. Responsibilities included:

- Power user in the Enviance® software used by many major corporations and government entities for Title V air compliance.
- Modifications and development of operating permits for air compliance under the WV Reg 13 program and Title V program
- Review of operations and recommendations for compliance with the Miscellaneous Organic NESHAPS (MON rule) and Remediation MACT.
- Review and implementation of SPCC requirements.
- Evaluation of all Teflon® unit equipment and operations for the site Groundwater Protection Plan.
- Performed waste handling and disposal option evaluations (including disposal vendor audits) of wastes and identified options for alternative disposal with cost savings of over $2,000,000/yr.
- Environmental reports including SARA 311/312/313, certified emission statements, RCRA biennial reports and Title V required reports.

- 2nd party environmental auditor.

Project Engineer, USEPA Region 3. Design and oversight of installation of air flow setup and monitoring system for the anthrax fumigation at the Hart Senate building ductwork system in December 2001. Interfaced directly on a daily basis with Region 3 EPA staff on progress.

Project Manager, US Army Corps of Engineer. Project manager for investigation and remediation planning for 4 high profile Army projects located in 3 different states (Ohio, Wisconsin and Texas). Projects were conducted under the Army's Guaranteed Fixed Price Remediation program. KEMRON was tasked with achieving "response complete" status for these projects at a fixed price. Worked closely with regulatory staff in all 3 states to identify what requirements for "response complete". Managed design investigation and remediation plans that would achieve those goals.

Project Engineer, Confidential Client. Served as independent certifying engineer for the RCRA closure at a chemical manufacturing facility. Multiple RCRA units were involved including a large surface impoundment and fluidized bed incinerator. Coordinated all sampling activities and produced certification report for submittal to agency.

Project Manager, Cape Cod Air Force Base**.** Managing a project to replace existing traditional cooling tower treatment system with magnetic treatment technology. Assisted Air Force with evaluation of several alternative treatment systems. Developed technical specifications for chosen alternative.

Project Engineer, GE Silicones. Produced biennial hazardous waste report for large manufacturing facility. This facility generates approximately 120 unique waste streams. Performed QA/QC of facilities spreadsheet for tracking these wastes and corrected multiple entries.
This data was then used to group waste streams into smaller subsets in order to reduce the number of forms used for reporting. The report was generated and submitted electronically using internet based system.

Project Manager/Engineer, Confidential Client. Manage the day to day activities at a closed chemical manufacturing facility. Activities include maintaining wastewater treatment system, pump and treat systems, groundwater monitoring, weekly RCRA inspections, agency interface, agency report submittals, grounds maintenance and repairs as needed.

Project Manager, Eaker Air Force Base. KEMRON is teamed with others to provide project management, O&M, sampling and analysis of multiple remediation areas at the Eaker Air Force Base. Duties involve coordination between field sampling crew and the laboratory, summarizing and interpreting analytical data and producing portions of the final reports to the agency.

Project Manager, SAIC. Planning and preparation for a confined space entry into a manhole at the Cleveland Hopkins International Airport to install new flow monitoring instrumentation. Coordination with prime contractor and client to assure project was completed without incident.

Project Manager, Confidential Client. Designed and implemented sampling strategy for demonstrating sufficient cleanup standards were achieved in clients wastewater treatment system. The project involved confined space entry.

Senior Engineer, Fort Sheridan. Providing support for management of all analytical data related to the project. Tasks involved include coordination of laboratory efforts, electronic evaluation and reporting of data, overseeing data validation and input on development of various project plans.

Senior Engineer, Cape Cod Air Force Base. Provided technical review and support for evaluation of proposed modifications to cooling water loop system. These modifications were being made in an attempt to achieve a zero discharge system to avoid potential issues with UIC rules. Technical analysis and recommendations were made to base staff to allow them to determine if proposed system was feasible.

Senior Engineer, Confidential Client. Performed regulatory analysis and evaluated various technologies for stabilization of materials from demolition of large kiln. Evaluations and recommendations resulted in reduced demolition and disposal costs for client.

Project Manager, Confidential Client. Lead the emergency response for a sludge release from a surface impoundment. The wall of the impoundment had partially failed due to high rain. Kemron was contacted to respond with personnel to place temporary material into the failed wall until more permanent repairs could be made. Mr. Tucker managed contractors performing the repair of the impoundment as well as the cleanup of the sludge that had spilled to the ground. Mr. Tucker sampled and characterized the sludge for proper disposal and acted on the clients behalf as the local contact for regulatory agencies.

Program Manager, SAIC. Management of field personnel planning, coordination and implementation of NPDES wastewater sampling at Cleveland Hopkins International Airport conducted under subcontract to SAIC. The project includes surface water and sewer investigation and sampling.

Project Manager, Various Clients. Scheduling and management of field personnel and equipment for multiple ongoing NPDES sampling and groundwater sampling programs. Coordination of schedules and program changes with clients.

Senior Engineer, US Army. Designed and implemented database for managing analytical data from remediation project. Database was designed to compare and flag exceedances of remediation goals and produce a wide variety of data summaries. Data was imported electronically directly from the laboratories to reduce data transcription errors.

Senior Engineer, Continental Airlines. Oversight of project to remove environmental hazardous materials from a building to prepare for demolition. Materials removed included asbestos, Freon, oil wastes, PCB transformers, PCB ballasts, mercury switches, various household chemicals and paint wastes.

Project Manager, Crompton Corporation. Conducted sampling in the Ohio River at the Compton facility in order to perform a mixing zone study. The study was required by their NPDES permit in order for the state to develop new discharge permit limits. Modeling was done using CORMIX software to demonstrate the mixing zone necessary to meet water quality standards.

Project Manager, US Air Force Europe. Customization and installation of the "KEMRON Environmental Toolbox" program, an electronic data management tool. This software was

customized to allow the end users to import drinking water source related data directly from a laboratory into the database. The program is then used to generate warnings when drinking water limits are exceeded, produce reports and produce graphs for trend analysis on multiple drinking water systems. This tool is reducing clients reporting and data management burden by many hours annually.

Project Manager, US Air Force Space Command. Developed summaries and conducted training on various Safe Drinking Water Act rules for the AFSPC. These rules included the general applicability of public water supply requirements, recent rules including arsenic rule, drinking water by-product rule and radionuclides. Updates were also given on two proposed rules including the radon rule and groundwater rules.

Project Manager, Region III EPA. As part of the Hart Building anthrax cleanup project, Mr. Tucker designed and implemented the work involved with preparation of the HVAC system for the fumigation project. This included evaluation of the HVAC system and then planning the isolation and monitoring system installed as part of the remediation in addition to responding to problems as they developed during the remediation.

Senior Engineer, Dow/UCC Marietta Site. Providing technical support and expertise for various functions at the site including development of database for scanned documents, data management for analytical data, interfacing with agency staff on modifications at the North Landfill and chemical cleaning of the leachate transfer line.

Project Manager, Confidential Client. Waste oil contamination sampling plan and implementation. Work was required by WVDEP consent order. Workplan was approved by agency with minor revisions. Fieldwork completed and report produced on short turnaround within budget.

Project Manager, various WV and OH clients. Creator of the "KEMRON NPDES Compliance Toolbox" program, an electronic data management tool. The tool allows the end user to import NPDES related data directly from a laboratory into the database. The program is then used to produce required monthly reports, generate various internal reports and produce graphs for trend analysis on the wastewater system. This tool is reducing clients reporting burden by hundreds of hours annually.

Project Manager, Confidential Client. Air emissions stack testing plan and implementation. Work was done to comply with air permit. Project was completed without problems on time and within budget.

Expert Opinion, Confidential Client. Client is involved in a case related to proper labeling requirements for containers. Researched regulations and produced a report providing opinion that the client was in compliance with all applicable regulations.

Senior Engineer, Alternate Energy Resources. RFI Plan Development and Implementation. Currently providing technical oversight on the implementation of the RFI for this facility. Over 15 SWMUs are included in this project.

Senior Engineer, Alternate Energy Resources. Provided review and interpretation of RCRA-related issues for a solvent recycling facility and oversight during the preparation of Subpart AA, BB and CC.

Environmental Manager, Witco OrganoSilicones Group. Responsible for technical management and oversight of all environmental aspects for the Sistersville facility. Major environmental regulatory areas that affect the facility include RCRA (part B permitted facility), CAA (major source regulated under Title V), CWA (wastewater system under NPDES) and SDWA. Responsible for developing and maintaining policies and procedures for OSi Group. The Sistersville facility has maintained a good compliance history.

Environmental Manager, Witco OrganoSilicones Group. Managed all technical aspects of the environmental operations, which included a wastewater treatment system, incinerator, dewatering operation, tanks and container storage. Provided technical support in the maintenance and repair of equipment and also scoping and implementation of capital improvements.

Environmental Manager, Witco OrganoSilicones Group. Developed and conducted internal and external auditing to assure compliance with regulations, maintaining compliance of environmental operations with OSHA laws and regulations, assisting customers with environmental questions, interfacing / negotiations with raw material suppliers and interfacing with local citizens.

Solid Waste Issues Manager, OSI Specialties, Sistersville, WV. Major area of responsibility maintaining compliance with RCRA regulations. Responsible for RCRA Part B permit (which includes storage tanks, surface impoundments, treatment tank and landfill), incinerator permit and RCRA corrective action permit. Successful in negotiating favorable permits and permit modifications to allow maximum possible flexibility in operations.

Solid Waste Issues Manager, OSI Specialties, Sistersville, WV. Strong knowledge of RCRA regulations including landban and generator issues. Provided creative and cost effective solutions to various RCRA issues. Responsible for reading interpreting and keeping abreast of pending regulatory developments. Provided timely interpretations and impact analysis on new regulations for OSi and also for Union Carbide (the previous owners).

Engineer, WV Solid Waste Management Board Provided direction and guidance for municipalities and private business in the operation and evaluation of solid waste management activities. 'Oversaw the construction of the facility and managed the state's municipal solid waste landfill operations (including waste approvals, billing and contractor operations) of the landfill.

Engineer, WV Department of Natural Resources, Solid Waste Section Responsibilities included writing of regulations dealing with municipal solid waste, permitting of various solid waste facilities and inspection of solid waste operations.

DAVID RAY PITZER
GIS SPECIALIST/SCIENTIST V

Education
B.A., The Ohio State University, 2004, Geography – Urban and Regional Systems

Registrations / Certifications / Training
- OSHA 29 CFR 1910.120 40-Hour Health and Safety Training and Annual Refreshers
- FEMA IS-00700 National Incident Management System
- FEMA IS-00005 An Introduction to Hazardous Materials

Mr. Pitzer is a Scientist V with experience in geographical information systems. He has held positions with Ohio Department of Natural Resources-Division of Water as a GIS Intern and Ohio Department of Agriculture as a GIS Specialist. He has a strong background in geographical information systems and data management with a working relationship with local/state/federal agencies. His background also extends into the field as well as he has participated in various groundwater-sampling activities while using various sampling equipment.

SELECTED PROJECT EXPERIENCE

GIS Specialist/Scientist II. USARC-Marion OH Site. January/2006 to January 2011. Provided field supervision for the surveying of onsite monitoring wells and test pits and instructed the site health and safety plan. Also, manipulated data and created numerous figures for the Site Investigation. Developed figures display various analytes and showing the data at different depths. The project is still in-progress.

GIS Specialist, USARC-Kings Mill, OH. June/2009 to January 2011. Provided required figures for reports which represented the site outline along with monitoring well locations and sampling areas and remediation system monitoring. Along with office participation for this project, participation in field consisted of groundwater sampling for on-going monitoring.

GIS Specialist, USARC-Pier 23 Tacoma, WA. February 2006-July 2008. Assisted the Chicago office with figures of the site while illustrating desired information for needed evaluation. Worked via phone and NetMeeting in order to organize data and figures to correspond to report. Assisted with database management for analyzing the data and producing final data output for various reports. This project is still in-progress.

GIS Specialist/Scientist II, RRAD-Texarkana, TX. March 2006-Current. Provided data management support while administrating the SCRIBE program that managed field data into a database for various uses. Along with data management, created numerous figures necessary for reports and for site wide field use. Figures representing well locations, potentiometric surface figures, utility drawing and general site navigational maps. Field activities consisted of sediment location and sampling, water levels, groundwater sampling and decontamination. During field activities, acted as lead sampler and site supervisor. Used field equipment such as; YSI, bladder pumps, HydraSleeve and decontamination materials. The project is still in-progress.

Scientist II, PPG-West Virginia. 2008-Current. Assisted with groundwater sampling at specified well locations. Operated equipment such as YSI on location for sampling purposes.

Scientist II, Solvay Polymers, Marietta, OH. January 2008 to Current. Provided technical support in the field while conducting water levels and sampling. During the field activities, used hand bailers and YSI while maintaining field data sheets.

GIS Specialist, Shell Lubricants. July 2010. Created and produced site figures for the area of concern and gave geographical reference for tank demolition.

GIS Specialist, Verizon-Michigan Site. August 2008. Provide required referenced figures for the Staff Scientist. The figures consisted of site drawings with parcel outlines and demonstrated the uses of the land. Some figures showed soil boring locations and transportation access points.

GIS Specialist, EAKER Air Force Base. January 2006 to August 2007 Managing and manipulating field and lab data for the client into formats specified by the client. Working with various data processing programs; Excel, Access and ERP-Tools (program provided by the Air Force Center for Environmental Excellence)

GIS Specialist, USARC-Oakland, CA. January 2006 to January 2008 Providing GIS technology to the excavation/remediation for a Remedial Action Plan. Taking various data layers and coordinating them to present a comprehensive drawing to show the preeminent excavation/remediation plan. The project is still in-progress.

GIS Specialist, AK Steel (Various Sites). On-going. Providing GIS technology to present various site wide maps to show numerous focal points. The GIS product will be used by KEMRON and by the client for regulatory reasons. Conducted field activities; involvement in boring/monitoring well location, supervision of surveying event, soil sampling in the riparian region of the site, collect groundwater elevation readings. The project is still in-progress.

Scientist II, AES. 2015. Co-lead scientist for low-level mercury and various other NPDES sampling. Working with ISCOs and Ph meters to record necessary data required for NDPDES permitting. Trained to perform low-level mercury sampling.

GIS Specialist/Scientist II, Ford Motor Company. July 2015 to September 2015. Creation of figures for site-wide representation of data. Along with representation, presentation of new borings were created for continuing evaluation of the site. Involvement in groundwater events have occurred since 2007. Using disposable bailers and using a YSI to collect current groundwater readings during sampling. Acted as lead sampler during all groundwater sampling events. This project is still in-progress.

GIS Specialst, Fort Lewis, WA. May 2009 to April 2012. Created and manipulated figures for various draft and final reports. Manipulated previously created figures created by other contractors to represent data in the manner that was requested by the project manager for KEMRON. Worked via phone and NETMeeting to finalize all requests for the completion of the reports.

GIS Specialist, Ft. Meade, MD. July 2009 to October 2011. Manipulation and data finalizing of soil and water data using the ERIS program. This task is vital to the continuation and completing the requirements set by the client. Working with the Vienna and the Marietta office of the completion of this project. This project is currently on-going.

GIS Specialist/Scientist II, Various Phase I projects. On-going. Creation of Figure I which present the location of the Phase I on a topographic map that is required for the completion of the format of the Phase I.

GIS Specialist/Scientist II, Various Phase II projects. On-going. Creation of Figures that illustrate site-wide data and location data. Along with the creation of figures, data management was conducted from sampling data conducted on site. Participated in field work on various Phase II sites.

Scientist III, AEP. On-going. Assisted with groundwater sampling at specified well locations. Operated equipment such as YSI on location for sampling purposes.

Scientist III, Kraton Polymers February 2006 to Current. Co-lead scientist for low-level mercury and various other NPDES sampling. Working with ISCOs and Ph meters to record necessary data required for NDPDES permitting. Trained to perform low-level mercury sampling. Also, trained other technicians on the low-level mercury sampling procedures.

GIS Specialist, Ft. Eustis. May 2008 to March 2012. Supporting numerous KEMRON offices for the completion of reports relating to the site. Creation and modification of figures that illustrate AOCs and figures for presentations. Create spatial databases for GPS field work.

GIS Specialist, Ft. Carson, CO. March 2010 to December 2010. Supporting the JV with weekly GIS updates of field clearance to JV project manager. Assist with sampling locations for field personnel and GIS support for sampling planning and completion.

GIS Specialist, WERS. January 2008 to August 2010. Continue GIS support for proposal and awarded contracts. Assist project managers in completion of contracts.

GIS Specialist, DSO Project. 2009. Provide GIS support for pre-construction for the site's remediation. Creation of conceptual illustrations for use by project managers and field technicians.

GIS Specialist, Private client. Current. Creation and modification of GIS illustrations for presentations needed in a court of law. Continuing support for the client to fulfill all needs needed for civil case.

GIS Specialist, Lackland AFB. December 2010 to January 2014. Provide GIS support for pre-construction for the site's remediation. Creation of conceptual illustrations for use by project managers and field technicians.

GIS Specialist/Database Manager. On-going. Provide GIS support for pre-construction for the site's remediation. Creation of conceptual illustrations for use by project managers and field technicians. Create and maintain a working database that is used by filed crews for the completion of field work.

GIS Specialist, AK Steel, Dicks Creek. October 2012 to Current. Provide GIS support for pre-construction and post-construction to the field and office staff. Creating various GIS outputs for reports and analysis during the working project. Calculating volume estimates from field captured data as well as providing field staff with geospatial data. Along with geospatial data, managing parcel owner data for the client.

GIS Specialist, AK Steel, SWMU 38/39. March 2013 to Current. Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

GIS Specialist, AK Steel, Tex-Tube. November 2012 to Current. Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

GIS Specialist, AK Steel, GBL. November 2012 to Current. Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

GIS Specialist, For McClellan, AL. December 2011 to June 2012. Created and manipulated figures for various draft and final reports. Manipulated previously created figures created by other contractors to represent data in the manner that was requested by the project manager for KEMRON.

GIS Specialist, Camp Siebert. July 2015 to August 2016. Created and manipulated figures for various reports. Provided parcel information/illustrations imperative to the pre-construction work onsite. Provided technical support and geospatial data to field staff.

GIS Specialist, Well 12a, Tacoma, WA. June 2009. Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

GIS Specialist, UXO-7 – Crane, Indiana. February 2007 - Provide GIS support for pre-construction for the site's remediation. Creation of conceptual illustrations for use by project managers and field technicians.

GIS Specialist, Fort Sheridan, IL. March 2006 to Current. Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.
Scientist IV, AMP-Ohio – Provide logistical and spatial assistance with river monitoring. Utilize GIS for decision making purposes regarding field sampling.

GIS Specialist, Cherokee Nitrogen. June 2012. Provide GIS support for pre-construction for the site's remediation. Creation of conceptual illustrations for use by project managers and field technicians. Create and maintain a working database that is used by filed crews for the completion of field work.

GIS Specialist, Zoetis. August 2014. Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports.

GIS Specialist, CES Ohio-West Virginia. July 2012-November 2015. Creation and modification of GIS illustrations and data. Creating illustrations used for by project managers.

Environmental Scientist, AK Steel Ashland. On-going. Conduct groundwater sampling requirements by EPA and the client. Conducted aerial volumetric measures with use of drone technologies for stockpile volume calculations. Assisting in cost estimating and SPCC auditing on-site.

GIS Specialist, AK Steel Ashland October2012-Current- Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

GIS Specialist, Fort Jackson. January 2014 to Current - Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

GIS Specialist, Anniston Army Depot April 2016 to Current- Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes. Manipulating aerial images resulting in georeferencing images for spatial analysis.

GIS Specialist, INEOS. April 2017. Utilizing CADD and GIS to provide the client with 1'=400' site map required for permitting. Creating geodatabases for spatial data included in the required output.

GIS Specialist, MIBA, McConnelsvile, OH. May 2011 to Current. Providing various CADD outputs required for facility permitting.

Scientist IV, SABIC-West Virginia. April 2009 to Current. Conduct sampling for stormwater and treatment system monitoring.

GIS Specialist, Century Aluminum-Sebree. June 2013. - Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

GIS Specialist, AK Steel-Zanesville. January 2014 to Current. Creation and modification of CADD drawings for SPCC requirements.

GIS Specialist, AK Steel-Coshocton January 2014 to Current. - Creation and modification of CADD drawings for SPCC requirements.

GIS Specialist, AK Steel-Dearborn August 2015 to November 2015 - Creation and modification of CADD drawings for SPCC requirements.

GIS Specialist, Browns Asphalt-West Virginia. Creation and modification of GIS illustrations and data. Creating illustrations used for numerous reports and for decision making purposes.

Scientist IV, Cytec (Solvay). March 2006 to Current. Manage and conduct O&M services on site-wide groundwater treatment system.

Scientist IV, AK Steel-Kansas City. September 2017. Operated heavy equipment for soil removal. Conducted soil sampling of contaminated soil and preformed air monitoring during soil removal process.

EMPLOYMENT HISTORY

GIS Specialist and Environmental Scientist, KEMRON Environmental Services, Inc., Marietta, OH, December 2005 to Present

SITE ASSESSMENT WORK PLAN, REVISION 1.1

CAMC GREENBRIER VALLEY MEDICAL CENTER
1320 MAPLEWOOD AVENUE
RONCEVERTE, GREENBRIER COUNTY, WEST VIRGINIA
VRP Project #24023

July 2024

Prepared for:

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1.0 BACKGROUND

KEMRON Environmental Services, Inc. (KEMRON) was retained by CAMC Greenbrier Valley Medical Center (CAMC) to address environmental conditions at the Greenbrier Valley Medical Center (GVMC), a 122-bed facility with inpatient and outpatient care, emergency services, surgical care, and diagnostic services, located at 1320 Maplewood Avenue in Ronceverte, Greenbrier County, West Virginia (Site) under the West Virginia Voluntary Remediation and Redevelopment Program (VRP).

This Site Assessment Work Plan (SAWP) is submitted to document site assessment activities to be performed at the GVMC under the VRP. The location of the GVMC facility property is depicted in **Figure 1**. A site plan is provided as **Figure 2**.

CAMC has entered the GVMC facility into the VRP in an effort to address environmental conditions caused by the previous operations at the Site. The 24-acre Site is developed with six (6) buildings of various sizes, totaling approximately 181,930 square feet. The main building (the medical center) is three (3) stories and houses office/administrative and healthcare operations. The surrounding land use consists of Greenbrier East High School to the north, Eastern Greenbrier Middle School to the west, agricultural land to the south, and Maplewood Avenue and various commercial and residential structures to the East.

The Site was agricultural land from at least 1952 until the original portion of the existing building was constructed in 1974 for use by the Humana Hospital Corporation. The hospital operated a facility medical waste incinerator, in which incinerated ash and other material was reportedly routinely dumped into an on-Site ditch along the western property boundary until 1985, when the ash was then disposed in an approved landfill. The hospital expanded with building additions in 1993 and 2007, and two (2) ancillary buildings were added in 1995. By 2007, the Site appeared to be in its current configuration. Site personnel were unable to indicate whether there have been any major changes in operations at the Site since GVMC began operations in 2003; however, since the Site has historically been operated as a hospital, Site operations are not expected to have changed significantly.

The current underground storage tank (UST) system at the Site is comprised of one (1) 5,000-gallon diesel fuel UST that is reportedly used to provide fuel for backup generators; however, a 5,000-gallon heating oil UST is listed for GVMC with the address of 202 Maplewood Avenue in the West Virginia Department of Environmental Protection (WVDEP) database of USTs. The UST is constructed of steel with cathodic protection and was installed on February 8, 1994. The most recent tightness test was conducted in June 2023. Based on a review of available public records, there have been no reported releases from the UST. In addition, according to the WVDEP UST database, four (4) former USTs were reportedly installed in the 1970s including:

- One (1) 1,000-gallon, gasoline UST, which was removed in February 1993;
- One (1) 10,000-gallon, asphalt coated steel UST containing diesel fuel (heating oil), which was removed in December 1993;
- One (1) 550-gallon, asphalt coated steel UST containing gasoline, which was removed in February 1994; and
- One (1) 500-gallon, asphalt coated steel UST is noted as closed in historical regulatory correspondence for GVMC from 1993 to 1994. However, KEMRON did not observe

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evidence of appropriate closure documentation (closure sampling, disposal records, photographs, etc.) in review of reasonably ascertainable public records.

On March 17, 2024, KEMRON was retained by CAMC to perform Assessment of Site Impacts Under the West Virginia Voluntary Remediation Program (VRP).

On May 22, 2024, KEMRON, on behalf of CAMC, submitted *Voluntary Remediation Program Application* correspondence to WVDEP, Office of Environmental Remediation to apply for incorporation of the site into the WVDEP VRP. On June 17, 2024, WVDEP Project Manager Derek Hancock submitted correspondence stating that the Site has been accepted into the VRP. The Site was assigned VRP #24023. A draft copy of the Voluntary Remediation Agreement is provided as **Appendix A**.

2.0 PREVIOUS SITE ASSESSMENT ACTIVITIES

On February 11, 1993, Abel Construction performed closure of one (1) 1,000-gallon capacity gasoline UST at GVMC. During February 1993 UST closure activities, approximately 247 gallons of gasoline and water were removed from the UST and disposed at H&I Waste Haulers, LTD of Cross Lanes, West Virginia, and the 1,000-gallon capacity gasoline UST was removed from the ground and transported to Mabscott Salvage of Beckley, West Virginia for recycling. Composite confirmation soil samples were collected from beneath the dispenser piping, beneath the dispenser, tank pit bottom and walls, and from a sample designation labeled as *contaminated soil*, which is presumably stockpiled soil from the UST excavation. Confirmation soil samples were submitted to REIC Laboratory of Beaver, West Virginia for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) according to United States Environmental Protection Agency (EPA) Method 8020 and Total Petroleum Hydrocarbons (TPH) according to EPA Method 8015. KEMRON did not observe evidence of regulatory correspondence subsequent to February 1993 UST closure activities at GVMC. Analytical results for confirmation soil samples collected during February 1993 UST closure activities indicated no constituent concentrations exceeded current applicable regional screening levels.

KEMRON had determined there was evidence that a non-regulated 10,000-gallon capacity heating oil UST was closed in December 1993 and removed from the site. It was also determined that during closure activities, soil was excavated from the UST basin and stockpiled towards the northwestern portion of the Site.

On February 23, 1994, Marshall Miller & Associates (MM&A) supervised the closure of one (1) 550-gallon diesel UST at GVMC, which was previously utilized to fuel an emergency generator. The 550-gallon diesel UST was located in a basin with dimensions of approximately six (6) feet in depth, 10 feet in length, and 10 feet in width. Upon removal of the 550-gallon diesel UST, the UST exhibited signs of minor pitting and corrosion, and no cracks or perforations were observed within the UST containment system. Composite confirmation soil samples were obtained from the UST excavation walls and bottom and from stockpiled soil removed from the excavation. However, no soil samples were obtained from product piping excavations due to close proximity of the diesel generator to the product lines. Approximately five (5) cubic yards of soil was removed from the UST excavation and stockpiled with soil previously removed during the December 1993 closure of a 10,000-gallon capacity diesel UST. Analytical results for composite confirmation soil samples collected during February 1994 UST closure activities indicated the TPH concentration in the composite wall sample was detected at 28 milligrams per kilogram (mg/Kg), and the xylene concentration in the composite stockpile soil sample was detected at 0.048 mg/Kg. No other adsorbed-phase constituents were detected at concentrations exceeding laboratory method

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detection limits in any confirmation soil samples collected. No comparison to applicable regional screening levels is included in the March 1994 *Closure Report*, and there is no current applicable regional screening level established for TPH. In addition, the xylene concentration of 0.048 mg/Kg does not exceed any current applicable regional screening level for xylene. Based on analytical results for soil samples collected during February 1994 UST closure activities MM&A petitioned WVDEP for *clean closure of the subject site*, which is presumably a No Further Action (NFA) equivalent. WVDEP issued UST Closure Inspection correspondence dated February 23, 1994, indicating a confirmed release was not issued subsequent to inspection of the February 1994 UST closure.

Upon review of the March 1994 *Closure Report* for GVMC, KEMRON observed evidence of closure of one (1) 10,000-gallon capacity diesel (heating oil) UST at GVMC, which was documented on March 1994 *Notification for Underground Storage Tanks* correspondence. March 1994 *Notification for Underground Storage Tanks* correspondence indicates the 10,000-gallon heating oil UST was closed in December 1993 and is listed as *non-regulated* due to the nature of the material stored within the tank as heating oil. The 10,000-gallon capacity heating oil UST was closed by removal from the ground, and site assessment activities were completed. However, KEMRON did not observe UST Closure Report documentation for the 10,000-gallon capacity heating oil UST in public records, presumably due to the *non-regulated* status of the UST.

On August 29, 2022, Bridge House Advisors Corp. (Bridge House) performed Phase I Environmental Site Assessment (ESA) activities at GVMC. One (1) Recognized Environmental Condition (REC) was identified at the Site during Phase I ESA activities in relation to historical on-site incinerator ash and medical waste disposal. Results of the August 2022 Phase I ESA indicated an incinerator was used to incinerate medical waste from approximately 1974 to 1985, and incinerator ash was deposited in a ditch in the northwestern portion of the site. In 2004, incinerator ash was discovered when two (2) sinkholes developed at the northwestern portion of the site. Four (4) soil samples were collected from 1.5 to 2.5 feet below ground surface (b.g.s.) in the vicinity of the sinkholes where evidence of ash and medical waste was observed and submitted for analysis of Toxicity Characteristic Leaching Procedure (TCLP) arsenic barium, cadmium, chromium, lead, selenium, silver, and mercury. KEMRON did not observe specific dates of sinkhole soil sampling activities in client-provided historical documentation. Analytical results for soil samples collected from the two (2) sinkholes indicated cadmium and lead were detected at concentrations that exceeded West Virginia Standards for Purity and Quality of Groundwater (PQG) as defined by the previous consultant. KEMRON did not observe evidence in public record or client-provided information that soil exhibiting contamination with cadmium and lead had been removed.

On November 2 and 3, 2022, Bridge House conducted a Phase II Environmental Site Assessment (ESA) to assess subsurface conditions at GVMC in relation to the sinkholes and historical incinerator and medical waste disposal. During Phase II ESI activities, 13 soil borings and five (5) temporary wells were advanced in the vicinity of the sinkholes; eight (8) soil borings were advanced in the vicinity of the drainage ditch that conveys stormwater to the sinkholes; and three (3) soil borings and temporary wells were advanced between the sinkholes, drainage ditch, and nearest building. Soil samples collected during Phase II ESI activities were submitted to Pace Analytical Services, LLC (Pace) of Mt. Juliet, Tennessee for analysis of volatile organic compounds (VOCs) according to EPA Method 8260B, semi-volatile organic compounds (SVOCs) according to EPA Method 8270C SIM, and Resource Conservation and Recovery Act (RCRA) metals according to EPA Method 6010D/7471B, and TCLP Metals according to EPA Method 1311. Groundwater samples collected during Phase II ESI activities were submitted to Pace of Mt. Juliet, Tennessee for analysis of VOCs according to EPA Method 8260D, SVOCs according

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to EPA Method 8270E SIM, and RCRA metals according to EPA Method 6010D/7470A. Laboratory analytical results for soil and groundwater samples collected during Phase II ESA activities indicated numerous adsorbed and dissolved-phase constituent concentrations exceeded applicable adsorbed-phase *Residential De Minimis* Standards and *Groundwater De Minimis* Standards. A table providing historical soil results is provided as **Table 1**. A table providing historical groundwater results is provided as **Table 2**. Historical soil sample and groundwater sample locations are depicted in **Figure 3**.

3.0 PROPOSED SITE ASSESSMENT ACTIVITIES

3.1 Geoprobe® Soil-Investigation

In an effort to fully delineate environmental impacts at the GVMC facility under West Virginia VRP requirements, KEMRON will utilize Geoprobe® direct-push technology to advance an estimated 23 soil borings to investigate the presence of adsorbed-phase constituents of potential concern (COPC) impacts in the soil beneath the GVMC facility to evaluate potential impacts from historical UST system operation and suspected historical deposition of incinerator ash and medical waste. The 23 soil borings will be advanced to an estimated average depth of 25 feet b.g.s., the regional water table, or refusal, whichever occurs first. A log including lithology and PID readings will be completed for each soil boring. Soil samples will continuously be collected from ground surface to the base of each boring. All samples collected will be field screened for the preliminary presence of VOCs using a photoionization detector (PID) with all field data recorded in a bound field notebook. Note that soil screening will be conducted according to WVDEP SOP OER-0101 Section 7.2 Direct-Push Core Liner and soil sampling will be conducted according to WVDEP SOP OER-0121 Section 7.1 Hollow Stem subsection f) iii. Additionally, KEMRON will follow the WVDEP Office of Environmental Remediation (OER) Brownfields Section Quality Assurance Program Plan (QAPrP) guidelines.

Due to WVDEP requirements and SW846 Method 5035 protocol, three (3) discrete soil aliquots will be collected from each sample interval. In an effort to fully define the site, KEMRON proposes to collect two (2) soil samples from each soil boring. One (1) sample will be collected from surface or near surface soil, and one (1) sample will be collected from the most heavily impacted area as determined by PID readings and visual observations. Soil samples collected in this manner will be placed in the appropriate sample containers, properly labeled, placed in an ice-filled cooler with the appropriate chain-of-custody documentation and submitted to Pace of Beaver, West Virginia, for analysis. In order to fully evaluate the GVMC property for COPCs potentially associated with current and historical site activities, soil samples will be analyzed for VOCs according to EPA Method 8260, SVOCs according to EPA Method 8270, polynuclear aromatic hydrocarbons (PAHs) according to EPA Method 8270 SIM, and Total RCRA Metals including arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury according to EPA Methods 6010 and 7470. In addition, soil samples collected in the area of the former incinerator ash disposal area (15 soil borings) will be analyzed for dioxins and furans according to EPA Method 1613B. It should be noted that the naphthalene analysis for 8260 will be conducted using the methanol preserved vial. The findings of the Geoprobe® investigation will be summarized in the Site Assessment Report discussed in *Section 3.5* herein. Note that all soils samples will be compared to the West Virginia *Residential* and *Industrial De Minimis* Standards, provided in **Appendix B**.

In accordance with the WVDEP-OER Brownfields Section QAPrP protocols, equipment rinsate blanks (estimated four (4) total), duplicate samples (two (2) total), and matrix spike/matrix spike duplicate (MS/MSD) samples (two (2) total) will be collected and analyzed for VOCs according to

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EPA Method 8260, SVOCs according to EPA Method 8270, and Total RCRA Metals including arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury according to EPA Methods 6010 and 7470. Also, one (1) travel blank will be collected and analyzed for VOCs according to EPA Method 8260. Laboratory analytical results will be provided in a Level IV data package. Proposed locations of soil samples are depicted in **Figure 4**. For sampling activities, KEMON will be utilizing the WVDEP's Field Activities Standard Operating Procedures (SOPs) (WVDEP, February 2022).

A boring log including lithology and PID readings will be completed for each soil boring. The locations of the Geoprobe® borings will be documented by utilizing GPS coordinates. The findings of the Geoprobe® soil investigation will be summarized in the Site Assessment Report outlined in *Section 3.6* herein. A table outlining the sampling that will be conducted by matrices is provided as **Table 3**.

3.2 Groundwater Monitoring Well Installation

In order to delineate groundwater impacts at the GVMC facility resulting from former UST system operation and medical waste deposition, KEMRON proposes the completion of 11 soil borings as permanent groundwater monitoring wells. Permanent groundwater monitoring wells have not previously been installed at the site. However, groundwater samples were collected from temporary wells installed by Bridge House during November 2022 Phase II ESI activities. Proposed permanent groundwater monitoring well locations were selected by KEMRON based on analytical results for groundwater samples collected during November 2022 Phase II ESI activities and locations of former UST system operation to adequately assess site impacts. The proposed locations of groundwater monitoring wells are depicted in **Figure 4**. It is important to note that the locations of permanent groundwater monitoring wells may change based on preliminary field screening data obtained during soil boring installation.

All monitoring wells will be advanced to a depth of approximately 35 feet b.g.s. or to a depth which will permit the screened interval of the completed monitoring well to intersect the regional groundwater table, whichever occurs first. The utility protection service (Miss Utility of West Virginia) will be contacted at least 72 hours before Site work begins to locate underground utilities in the vicinity of the Site.

The monitoring wells will be constructed of two-inch (2") diameter, Schedule 40 Polyvinyl chloride (PVC) with approximately 10 feet of 0.010-inch slotted well screen and riser to ground surface. The well screen will be installed such that the water table is intercepted. The well will include a sand filter pack from total depth to approximately two (2) feet above the top of the screened interval, a one (1)-foot bentonite seal, a grouted interval above the bentonite seal, and a flush-mounted manway for access to the well. Note that groundwater monitoring wells installed in the former area where ash had been disposed of will be outfitted with stick-up well protectors. The wells will be equipped with a locking cap for security purposes. Construction may vary depending on subsurface conditions.

A groundwater monitoring well construction diagram depicting final construction specifications of each groundwater monitoring well installed will be included in the boring logs discussed in *Section 3.1*, above. Following drilling/installation, groundwater monitoring wells will be developed by pumping, surging, or hand bailing. The location and top of casing elevation will be surveyed and depicted on a Site Map. Groundwater monitoring well installation activities will be summarized in the Site Assessment Report outlined in *Section 3.6* herein.

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3.3 Soil-Gas/Sub-Slab Vapor Monitoring Point Installation and Sampling

During monitoring well installation activities, KEMRON proposes the installation of two (2) soil-gas and one (1) sub-slab vapor monitoring points (VMPs). One (1) soil-gas vapor monitoring point will be installed in the vicinity of the former 1,000-gallon capacity gasoline UST basin, one (1) soil-gas vapor monitoring point will be installed in the area of the former incinerator ash disposal, and one (1) sub-slab vapor point will be installed in the storage facility adjacent to the former UST area. The proposed locations of the VMPs are depicted in **Figure 4**. These VMPs will be designated as VMP-1, VMP-2, and VMP-3. The VMPs will be installed to a depth of five (5) feet b.g.s. and will be constructed of one-inch diameter, Schedule 40 PVC with approximately five (5) feet of 0.010-inch slotted well screen. The well screen will be installed such that the subsurface silt/sand layer within the vadose zone is intercepted. The monitoring point will include a sand filter pack from total depth to approximately one-foot b.g.s., a six (6) inch bentonite seal, a grouted interval above the bentonite seal, and a flush-mounted manway for access to the VMP. The VMP will be equipped with a locking cap that will be retrofitted with a sampling port for monitoring vacuum pressures and volatile organic compound (VOC) concentrations during corrective measures implementation. The sub-slab monitoring point will be installed in the storage room directly adjacent and to the north of the former UST basin. The stainless-steel vapor pin will be installed with a hammer drill and outfitted with a protective cover following installation.

All soil gas sampling will be conducted according to WVDEP SOP OER-130. Additionally, KEMRON will be following the WVDEP-OER Brownfields Section QAPrP. Purging and field screening with a MultiRae multigas meter will be used to confirm stabilized readings before sample collection. Helium will be used as a tracer to ensure that no significant amount of atmospheric air enters the VMP sample through the annular seal between the ground surface and probe or any associated fittings. A shroud will be placed around the ground surface of each VMP prior to sample collection, and helium gas will be added to the shroud during the purging field screening process. The shroud is a barrier between the helium gas and the outside air, typically a clear plastic bin, and is not required to be airtight. The concentration of helium in the shroud and the sample will be recorded with a helium detector to confirm that the sample contains less than 5% of the concentration of helium in the shroud prior to collection of any samples for laboratory analysis. If the helium tracer data indicates a leak, all fittings will be tightened, or the VMP will be resealed or replaced as needed to obtain a sample with the appropriate integrity. For the sub-slab vapor monitoring point, a water dam will be created with putty to determine if a leak exists. If a leak is detected, measures will be taken to reseal or replace the sub-slap point as needed to obtain a sample with the appropriate integrity.

For the soil-gas vapor monitoring points, soil vapor samples will be collected from the VMPs using a six (6) liter Summa canister with a control regulator so as to fill the Summa canister in a 30-minute period. The rate of flow to collect the soil vapor samples will be set at 200 mL/min. A duplicate air sample will be collected from one (1) of the soil-gas VMPs. For the sub-slab vapor monitoring point, a soil-vapor sample will be collected using a six (6) liter Summa canister with a control regulator so as to fill the Summa canister in a four (4) hour period. The rate of flow to collect the sub-slab soil vapor sample will be set at 25 mL/min. Additionally, a background vapor sample will be collected from ambient air inside of the storage facility adjacent to the former UST basin using a six (6) liter Summa canister with a control regulator so as to fill the Summa canister in a four (4) hour period. Following completion of soil-gas/sub-slab/ambient air sampling, soil vapor and ambient air samples will be logged on an appropriate chain-of-custody form and submitted to Pace National in Mount Juliet, Tennessee for analysis. Soil vapor samples will be analyzed for VOCs according to EPA Method TO-15. Note that soil vapor samples will be

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compared to the EPA Vapor Intrusion Screening Level (VISL) benchmarks for Residential and Industrial receptors.

3.4 Groundwater Sampling

Upon completion of groundwater monitoring well installation, development, and surveying, one (1) round of groundwater samples will be collected from newly installed groundwater monitoring wells. Prior to groundwater sample collection, the depth to water in each well will be gauged using an electronic water level indicator and documented in a bound field notebook. Note that KEMRON will be following the WVDEP-OER Brownfields Section QAPrP as well as WVDEP SOP OER-110 for all groundwater sampling activities. Following gauging activities, each monitoring well will be purged and sampled in general accordance with WVDEP SOP OER-110 procedures. Low-flow purging will be accomplished through the use of a bladder pump. A water level indicator probe will be set at the desired drawdown limit within the screened interval of the well. After setting the pump and all associated equipment (generator, compressor, tubing, etc.) a graduated cylinder or other appropriate flow measurement device will be used to measure the purge flow rate. The flow rate will be set and controlled in a manner that is consistent with WVDEP SOP OER-110 procedures. When the flow rate has stabilized, readings of groundwater parameters will be collected every five (5) minutes, at a minimum, until all parameters have stabilized. Depth to water and flow-rate measurements will also be recorded every five (5) minutes, at a minimum, to ensure that the flow rate stays within its range and the well is not pumped below the desired drawdown limit. All low flow purging equipment that comes into contact with groundwater will be thoroughly decontaminated prior to reuse. Purge water generated during groundwater sampling activities will be placed in a properly labeled 55-gallon drum and left on-site pending receipt of laboratory analyses.

Following purging, groundwater samples will be collected from each well using low-flow sampling in a manner that is consistent with the WVDEP SOP-OER-110 procedures. In order to keep agitation of the sample to a minimum, groundwater samples will be transferred directly from the low-flow purge/sampling device to the appropriate laboratory-supplied sample containers. Groundwater samples will be placed in an ice-filled cooler with the appropriate chain-of custody documentation and submitted for laboratory analysis. All low-flow sampling equipment that comes into contact with groundwater will be thoroughly decontaminated prior to reuse. New polyethylene tubing will be used for each groundwater monitoring well sampled.

Following sample collection, groundwater samples will be submitted to Pace in Beaver, West Virginia via lab courier or by KEMRON personnel. The groundwater samples will be analyzed for VOCs according to EPA Method 8260, SVOCs according to EPA Method 8270, PAHs according to EPA Method 8270 SIM, and Total RCRA Metals including arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury according to EPA Methods 6010 and 7470. Additionally, groundwater samples collected from monitoring wells installed in the former incinerator ash disposal area will be analyzed for dioxins and furans according to EPA Method 1613B. Water samples collected for analysis of dissolved metals will be field filtered using a 0.45-micron filter prior to containerization. Note that all groundwater samples will be compared to the West Virginia *Groundwater De Minimis* Standards, provided in **Appendix B**.

In accordance with QA/QC protocols, one (1) equipment rinse blank, one (1) duplicate water sample, and one (1) MS/MSD water sample will be collected and analyzed for VOCs according to EPA Method 8260, SVOCs according to EPA Method 8270, and Total RCRA Metals including arsenic, barium, cadmium, chromium, lead, selenium, silver, and mercury according to EPA

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Methods 6010 and 7470. Also, one (1) travel blank will be collected and analyzed for VOCs according to EPA Method 8260.

3.5 Data Validation

In accordance with Quality Assurance/Quality Control (QA/QC) protocols and Title 60 of the West Virginia Code of State Regulations, Series 3, Section 8.2.d., analytical results for analysis of all assessment samples will be reported as Stage 4 Electronic Data Deliverables so that KEMRON can perform a random check of approximately 10% of the analytical results and accompanying QA/QC data utilizing a qualified analytical chemist. Note that 10% of each medium will be validated to Stage 4.

3.6 Site Assessment Report

Following completion of Site Assessment activities, KEMRON will prepare a Site Assessment Report (SAR) summarizing the investigation findings. In accordance with the West Virginia Voluntary Remediation and Redevelopment Act Guidance Manual, a site assessment report completed under the VRP must include the following information at a minimum:

Title Page - The site name and VRP number, name of the report (note that the name of the report should coincide with the title specified in the Voluntary Remediation Agreement (VRA) or VRA Modification), the party that prepared the report, the party for whom the report was prepared, and date of report completion.

Table of Contents – The Table of Contents will include sections (and subsections) and the pages on which they begin, as well as a list of figures, tables, attachments, and appendices.

List of Acronyms – A list of acronyms used in the report is required for each submittal.

Executive Summary – A one (1) or two (2) page summary of the findings, conclusions, and recommendations of the report written in a manner that is easily understood by the general public.

Introduction – The introduction of the report will include a statement of the purpose of the report with respect to implementation of the site-specific SAWP. The introduction will also include site background information, such as site location, site description, history, and previous environmental investigations or remediation.

Physical Characteristics of the Site – This section will be of sufficient detail to adequately describe the overall physical characteristics of the site to the reader. The text will also refer to photographs and site plans that portray the site graphically. Site physical characteristics will include man-made and natural surface and subsurface features, including buildings and other structures, underground and above-ground utilities, topography and surface water drainage patterns, vegetation patterns, Source Water Zones of Critical Concern, Wellhead Protection Areas, and local and regional geology and hydrogeology.

Site History and Contaminants of Potential Concern – A discussion of current and past land use; chemicals used, stored, or produced at the site; and any breakdown/daughter products. The report will reference any previous site assessment (e.g., Phase I or Phase II ESA) or other due diligence activity conducted to develop site history, land use, and contaminants of potential concern.

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Site Investigation Objectives – This discussion will restate the objectives provided in the site-specific SAWP which may be included as an appendix to the report or incorporated by reference. Any deviations from the site-specific SAWP will also be explained.

Site Investigation Activities – This section will include a discussion of the actions completed to implement the SAWP and reference SOPs included in the SAWP. Rationale for the selection of sample locations, media, and analytical parameters will be discussed and related to the conceptual site model (CSM). Additionally, this section will include a discussion of the management of investigation-derived waste (IDW) and QA/QC procedures.

Site Investigation Results – This section will include a detailed description of soil, fill materials, and bedrock types encountered. References will be made to figures, tables and appendices as necessary. Contaminant source locations, water table levels, and soil/bedrock contacts will be discussed, as well as results of any geophysical testing.

A detailed description of hydrogeology will also be included. This will include discussion of any influences of groundwater level fluctuations on contaminant concentrations at monitoring wells; discrete areas of groundwater recharge or discharge and their proximity to contaminant sources and monitoring points; and influence of subsurface utilities, conduits, or fill areas on groundwater flow and occurrence. If multiple groundwater flow zones are present (i.e., soil versus bedrock, karst zones, cohesive versus granular soil zones, etc.) these will be clearly delineated and discussed. References will be made to figures, tables and appendices as necessary. Results of any aquifer testing will also be discussed.

Finally, the results of laboratory analytical testing will be summarized and discussed by medium. If analytical data are available from previous assessment activities, those results will be included and compared with results of the current assessment. Results of screening contaminant concentrations against De Minimis Standards will also be discussed and presented in tabular format. Any new contaminant source areas will be highlighted, as well as unexpected results, data outliers, etc. The results of any fate and transport models will also be presented in this section.

Conclusions and Recommendations – This section will specifically address the goals set forth in the SAWP and whether the objectives were met. The QAPP will also be addressed and whether data quality objectives (DQOs) were met. Discussions of the delineation of the horizontal and vertical extent of contamination in each media will be included, including off-site impacts, if applicable. Reference should be made to related figures and tables, as appropriate, to provide a concise and clear depiction of site-related impacts. For human receptors, actual and potential contaminant migration routes will be discussed, as well as exposure points and potential or actual exposure routes, based on the results of the site investigation. Potential or actual ecological impacts will also be discussed. Additionally, the Baseline CSM will be upgraded to the Characterization CSM based on the site investigation results.

Recommendations may include the need for additional site investigation to better define contaminant impact in certain media. Recommendations for interim remedial actions may also be included. If the site investigation is deemed complete, a recommendation to proceed with risk assessment may be included.

Figures and Tables – All figures will include a legend, scale bar, north arrow, figure number, name and address of site, and revision number. All figures will be placed in a single section. The actual types and number of figures, as well as the level of detail, is dependent on site conditions.

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The SAR will include the following figures:

- Site Location Map;
- Site Plan;
- Sample Location Map (by media if appropriate);
- Contaminants of Potential Concern Concentration Map;
- Groundwater Potentiometric Surface Map;
- Geologic Cross Sections (if appropriate); and
- Conceptual Site Model.

The SAR will include the following tables:

- Analytical laboratory results for each medium (e.g., soil, groundwater, etc.) and pathway (e.g., vapor);
- Groundwater gauging information, including NAPL thickness (if applicable); and
- Geophysical and aquifer test results when appropriate.

A separate table will be provided for each environmental medium and pathway (e.g., surface and subsurface soil, groundwater, indoor air, soil vapor, etc.) for which sampling data are available. Throughout the text and tables, data will be presented in a consistent manner (e.g., micrograms per liter (µg/L) for groundwater and mg/Kg for soils). The data will be arranged chronologically, if appropriate (e.g., groundwater), and discuss in the text any apparent time trends in the data. Frequency of detection, range of sample quantitation limits, minimum and maximum concentrations, arithmetic mean (for lead only) and 95% Upper Confidence Limit (UCL) on the most appropriate distribution as identified by ProUCL (as applicable) will be presented. If hot spots are identified, they may be presented in separate tables or excluded from statistical analysis.

Appendices – Appendices that support the findings of the assessment will be provided. These will include:

- Boring logs;
- Well construction diagrams;
- Monitoring well development and purging logs;
- Laboratory analytical reports and chain(s) of custody;
- QA/QC sample results;
- IDW manifests;
- Field notes;
- Photographs; and
- Data validation report.

4.0 DECONTAMINATION PROCEDURES

Decontamination procedures to be employed for personnel and equipment during Site assessment activities at the Site are summarized below. The decontamination process is designed to remove any contamination acquired in the exclusion zone and to keep the spread of contaminated materials from entering the support (clean) area. Care must be exercised to ensure that contaminants are removed from personnel and equipment before the personnel or equipment leaves the Site.

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4.1 Personnel Decontamination

Dry decontamination is the preferred method utilized by KEMRON. This method of decontamination involves the removal and containment of contaminated layers of personal protective clothing. Boot covers or personal protective equipment (PPE) with enclosed feet will be utilized. In the event that boot covers are breached, boots will be decontaminated by using a wet method "boot wash" station located at the contamination reduction zone (CRZ). The boot wash will be comprised of two large wash tubs. The first tub will be filled with a water and soap solution and a brush to remove gross contamination. The second wash tub will be a rinse. Once completed, personnel will exit the CRZ free of contamination.

An emergency eyewash will be located at the CRZ in the event that emergency decontamination is needed. Once the gross contamination has been removed, the affected personnel shall fully decontaminate and exit the CRZ. All Site employees will wash hands and face before leaving the decontamination area. Site personnel may assist with the emergency decontamination only if they are protected from exposure.

4.2 Equipment Decontamination

This procedure is applicable for any equipment that will be used to collect a sample for chemical analysis. Whenever feasible, field equipment will be pre-cleaned (using this procedure) at the equipment maintenance area, wrapped in aluminum foil, and dedicated to a particular sampling point. In instances where this is not feasible, field decontamination will be performed as follows:

1. Non-phosphate detergent wash;
2. Tap water rinse;
3. 10% nitric acid rinse;
4. Deionized water rinse, if sampling for TAL metals;
5. Reagent grade methanol rinse;
6. Deionized water rinse;
7. Air dry; and
8. Wrap in aluminum foil (if not used immediately).

Note: Step 3 will only be performed when collecting samples for metals analysis. Step 5 will only be performed when collecting samples for organic analysis. Due to the amount of water generated by this procedure, a temporary wastewater containment area must be constructed. All wastewater generated will be collected, placed in a properly labeled 55-gallon drum, and temporarily staged on-Site pending off-Site disposal.

5.0 INVESTIGATION-DERIVED WASTE MANAGEMENT

Investigation-derived wastes (IDW) generated during site assessment activities at the site will be containerized and managed in accordance with the procedures specified below.

5.1 Soil Cuttings/Sediment

Soil generated during site assessment activities at the site will be containerized in open-top 55-gallon drums during generation. The containerized soil will be properly labeled and temporarily staged on-site pending off-site disposal. Appropriate handling and off-site disposal will be determined by analytical characterization of soil samples collected during Site assessment activities.

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5.2 Purge Water

Purge water generated during site assessment activities at the Site will be containerized in 55-gallon drums during generation, where applicable. The containerized purge water will be properly labeled and temporarily staged on-site pending off-Site disposal. Appropriate handling and off-Site disposal will be determined by analytical characterization of groundwater samples collected during site assessment activities.

5.3 Decontamination Water

Decontamination water generated during site assessment activities at the Site will be containerized in 55-gallon drums following completion of daily decontamination activities. The containerized decontamination water will be properly labeled and temporarily staged on-site pending off-site disposal. Appropriate handling and off-Site disposal will be determined by analytical characterization of media samples collected during site assessment activities.

6.0 SAMPLE HANDLING, STORAGE AND SHIPMENT

6.1 Sample Numbering System

6.1.1 Scope and Application

This procedure is applicable to samples collected during the field work at the Site by KEMRON. The sample numbering system used by the WVDEP, or their contractor may not comply with those stated herein. An accurate sample numbering system is important for sample tracking and matching of results with sample locations.

6.1.2 Summary of Method

A unique number is assigned to each sample collected according to a predetermined set of criteria.

6.1.3 Procedure

The sample numbering system will be used to identify each sample taken and to provide a tracking procedure for retrieval of information.

The sample ID code will consist of four parts:

- Site identifier (GVMC, for Greenbrier Valley Medical Center);
- Sample matrix ID (SS, SB, MW, VMP, etc.) and location number (01, 02, etc.);
- Sample number (which will be related to the sample depth); and
- Sample tracking number. The sample tracking number will be a part of any sample (all media) submitted to a laboratory for analysis (environmental, trip blank, equipment blank, etc.) and will be consecutive, starting with the number 1000.

The proposed sample identification system is as follows:

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Sample Matrix	Sample ID Code	Explanation
Monitoring Well Sample	GVMC-MW#-XX-YYYY	# = Monitoring Well Number XX = Sample Number YYYY = Sample Tracking Number
Surface Soil Boring Sample	GVMC-SS#(0-2)-XX-YYYY	# = Soil Boring Number (0-2) = Depth of Sample Collection XX = Sample Number YYYY = Sample Tracking Number
Subsurface Soil Boring Sample	GVMC-SB#(4-6)-XX-YYYY	# = Soil Boring Number (4-6) = Depth of Sample Collection XX = Sample Number YYYY = Sample Tracking Number
Soil-Gas Sample	GVMC-VMP#-XX-YYYY	# = Vapor Monitoring Point Number XX = Sample Number YYYY = Sample Tracking Number

6.1.4 Precautions

It is critical that the sample numbers be recorded correctly on the sample label, the field logbook, and the chain-of-custody record.

6.2 Storage and Handling

The clock for sample holding time begins upon sample collection. Samples will be placed on ice and stored at 4ºC prior to analysis. Following analyses, the laboratory will store the samples at room temperature in a secure area for 12 months.

Once a sample has been collected, the sample will be secured in a locked vehicle, locked trailer, custody-sealed cooler or in a visual sight of the person(s) assuming the chain-of-custody until shipment to the laboratory or transfer to the laboratory courier.

6.3 Shipping

This procedure is applicable to packing and shipping the environmental samples that will be collected during the field activities at the Site. Proper packing/shipping is critical to the sample chain-of-custody, as well as protection of the shipper and carrier. The following applies to samples not suspected to contain potentially hazardous constituents. For all other shipping, consult applicable guidance documents. If samples are discolored, odorous, or contain non-aqueous phase materials, applicable shipping guidance should be considered.

1. Prepare containers for shipment.
    - Affix “This Side Up” and appropriate shipping labels on each of the containers.
    - Place mailing label with laboratory address on top of containers.
    - Assign chain-of-custody records and corresponding custody seals to respective shipping containers.
2. Prepare sample bottles.
    - Check to see that lids are on tight and that bottle labels are firmly affixed and labeled.
    - Spray the bottles with tap water and wipe with a paper towel.

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3. Arrange the sample containers in front of their assigned shipping containers.
4. Seal each sample container in a separate Ziploc plastic bag and place the sample containers in their designated shipping containers. Appropriately sized commercially available plastic bags may be used in the event that the sample bottle will not fit in a Ziploc bag.
5. Place bags of ice directly on and around the sample containers. Ice should be double-bagged in a Ziploc bag. Alternatively, blue ice blocks may be used.
6. A temperature blank shall be added in each cooler.
7. Fill the remaining space with vermiculite absorbent packing material.
8. Sign the chain-of-custody form (or obtain the signature) and indicate the time and date the samples are relinquished to the overnight carrier or laboratory courier.
9. Seal the proper chain-of-custody copy in a Ziploc bag and tape it to the inside lid of the container.
10. Close the lid and latch the container.
11. Carefully peel the custody seals from their backings and place them intact over the front and back edges of the shipping container. Cover the seals with clear protection tape.
12. Tape the container shut on both ends, making several complete revolutions with strapping tape (do not cover the custody seals).
13. Address the shipment and relinquish the shipping container(s) to the overnight carrier or laboratory courier.
14. Telephone the laboratory on the day of shipment. Provide the following information:
    - Your name;
    - Project name;
    - Number of samples sent to the laboratory for analysis; and
    - Airbill numbers (if applicable).

7.0 QUALITY ASSURANCE/QUALITY CONTROL

KEMRON will adhere to the WVDEP's QAPrP for all activities related to soil boring, groundwater monitoring well installation, soil-gas monitoring point installation, along with the sampling of soil, groundwater, and soil-gas throughout site assessment at the Site.

7.1 Quality Objectives and Criteria for Measurement Data

Data collected from this project will be used to:

- Ascertain if there is a threat to public health or the environment;
- Locate and identify potential sources of contamination;
- Formulate remediation strategies, and estimate remediation costs;
- Determine treatment and disposal options; and
- Verify attainment of clean-up goals.

When conducting this investigation, all measurements will be made so that results are reflective of the medium and conditions being measured. Prior to all environmental measurement activities, site-specific DQOs and measurement performance criteria will be determined. The DQOs are qualitative

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and quantitative statements that will specify the quality of the environmental monitoring data required to support decisions and will be predicated in accordance with the anticipated end uses of the data which are to be collected. The DQOs are applicable to phases and aspects of the data collection process including site investigation, design, construction, and remedy operations. The level of detail and data quality needed will vary with the intended use of the data.

The DQOs are typically assessed by evaluating the Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity (PARCCS) of all aspects of the data collection process. PARCCS is defined as:

- Precision; a measure of the reproducibility of analyses under a given set of conditions;
- Accuracy; a measure of the bias that exists in a measurement system;
- Representativeness; the degree of sampling data that accurately and precisely depicts the selected characteristics;
- Completeness; the measure of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under “normal” conditions;
- Comparability; the degree of confidence with which one data set can be compared to another; and;
- Sensitivity refers to the ability of an analytical procedure to detect and quantify an analyte at a given concentrations and is related to the Reporting Limit (RL) and/or method detection limit (MDL).

KEMRON will compare all data received to the minimum required PARCCS as provided in the WVDEP-OER Brownfields Section QAPrP Section 3.2.8.2. The relevant goals for PARCCS are provided in Section 7.2, below.

7.2 Quality Assurance Objectives

DQOs define the total uncertainty in the data that is acceptable for each specific activity during the investigation. This uncertainty includes both sampling error and analytical error. The data collected during the course of the investigation were used to determine the extent and boundaries of environmental impacts and the potential applicability of remedial technologies. The parameters that were used to specify data quality requirements and to evaluate the analytical system performance are precision, accuracy, representativeness, completeness, comparability and sensitivity. As discussed above, KEMRON will compare all data received to the minimum required PARCCS as provided in the WVDEP-OER Brownfields Section QAPrP Section 3.2.8.2.

The objective with respect to the field investigation is to maximize the confidence in the data in terms of precision and accuracy. Sections 6.1 through 6.4 present the frequency with which trip blanks, field duplicates, field blanks, and matrix spikes were collected such that a specific degree of precision and accuracy can be calculated. The data quality objective for field duplicates is to achieve precision equal to no greater than that specified in the analytical methods and the laboratory quality assurance plan.

Precision will be calculated as the relative percent difference (RPD) if there are only two analytical points and as relative standard deviation (RSD) if there are more than two analytical points. The submission of blanks will monitor potential contaminants introduced during the sampling, preservation, handling, shipping, and the analytical processes. Through the submission of field

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Quality Control (QC) samples and review of resultant analytical data, the distinction can be made between laboratory problems, sampling technique, and sample matrix variability.
Accuracy will be determined through statistical analysis of data. Where the sample size is adequate, an upper 95th percentile mean will be determined so that outlying data can be identified.

To ensure sample representativeness, all samples will be collected in accordance with EPA-recommended procedures for sample collection and preservation and EPA-recommended holding times specified in "Test Methods for Evaluating Solid Wastes" (SW-846). Every effort will be made to obtain complete and valid data for all sampling points. In order to establish a degree of comparability such that observations and conclusions can be directly compared with all historical data, KEMRON will be using standardized methods of field analysis, sample collection, and preservation, as well as adhering to established holding time requirements.

During Site Assessment activities at the Site, KEMRON will employ an accredited environmental laboratory for laboratory analytical services. The laboratory will be expected to document all analytical problems encountered during the course of the investigation to ensure precision and accuracy. Communication will be maintained with the laboratory so that, should analytical problems be encountered, ample opportunity was available to recollect these samples, if necessary. In the event QC problems are detected by the lab (e.g., calibration standardization, machine failure, or detections in method blanks); we will be notified prior to analysis of the samples. No samples that exceed EPA holding times will be analyzed without prior authorization. If spike recoveries are outside the EPA specified range, then a quality control check sample containing the spiked analyte that failed will be prepared and analyzed to determine matrix interferences.

Completeness establishes whether a sufficient number of valid measurements were obtained. The closer the value is to 100, the more complete the measurement process. For this project, the minimum level of expected sampling completed is 90%. Data rejected, whether due to sampling design error or measurement error, during the data validation process will be considered invalid measurements. Field measures of completeness will include the percent planned samples collected. Laboratory measures of completeness include the percent sample per batch analyzed and reported. The project specific goal will be to ascertain that 10% of analytical data generated per media is validated to Level IV standard, as discussed in Section 3.5, herein.

Field measures of comparability will include comparisons of previous data points, comparison to similar data points, and ensuring similar methods are used each time samples are collected. Laboratory measures of comparability will include quantitative measurements to ensure sampling and analytical procedures are consistent within and between data sets. Sampling procedure comparability will be made by collecting field duplicate samples for every media sampled.

To meet sensitivity requirements, where possible, the goal will be for RLs, MDLs and/or quantitation limits to be below applicable West Virginia De Minimis Standards. Field measures of sensitivity will include the collection of equipment blanks and collecting the appropriate sample volume or mass. Laboratory measurements of sensitivity will include method blanks, instrument blanks, reporting limits, and use of the appropriate analytical method.

The overall data management objective will be to provide a complete database with a high degree of confidence through the use of a phased approach of sampling, analysis, data assessment (data review), data qualification and feedback.

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7.3 Sampling Procedures

Groundwater monitoring wells are to be purged and sampled proceeding from the monitoring well suspected of containing the least contamination to the monitoring well with the most contamination. Prior to initiating any groundwater sampling activities, the depth to water will be measured to the nearest one hundredth of a foot with an electronic water level indicator or oil/water interface probe.

Groundwater monitoring wells will be purged using a variable-speed submersible pump equipped with Teflon discharge tubing and an in-line flow-cell. Flows shall be between 100 and 300 mL/min and parameter readings shall be taken every five (5) minutes at minimum. If a flow-cell is not used, all water quality parameters must be collected using individual meters. Continue purging until stabilization is achieved as demonstrated by a variation of ±10% in turbidity (where greater than 10 nephelometric turbidity units (NTUs), and variations in pH of 0.1 units, specific conductance of ±3**%,** oxidation-reduction potential of ±10 millivolts, and dissolved oxygen of ±0.3 milligrams per liter (mg/L), and temperature of ±3% degrees Celsius (°C) over three consecutive readings. In the event that perfect stabilization has not been attained after two hours of purging, well purging will cease provided that the stabilization criteria have been substantially met. The stabilization results will be recorded in the field logbook. Note that if turbidity is stable, but not between 5 and 50 NTUs, the decision to continue sampling will be made by KEMRON in consultation with the WVDEP. KEMRON will attempt to limit the well drawdown to 0.33 feet or less using low flow purging techniques; this restriction will be documented with water level measurements recorded in concert with the stabilization readings described above.

In the event that low-conductivity formations render this drawdown limit infeasible, a modified purging method will be employed. If the well screen is entirely below the water table, the pump intake shall be placed just above the screen top, and purging shall be performed as gradually as possible. This configuration will ensure that the formation will not be exposed to air. However, if the well screen straddles the water table, purging the well dry may be unavoidable. In such a case, the well will be allowed to recharge for at least two (2) hours, after which the sample will be collected when sufficient water is available. This low-conductivity protocol is intended to be consistent with the corresponding protocol in the EPA Ground-Water Sampling Guidelines (May 2002), page 9. As before, purging shall be conducted in a manner that will ensure completion in no more than two hours. Field readings taken in the process of sampling shall be recorded as the conditions of record for the sample.

Groundwater samples to be submitted for dissolved metals analysis will be field filtered using disposable 0.45-micron filters. Once groundwater samples are collected, they will be immediately prepared, preserved and stored on ice at no more than 4° Celsius to prevent changes in sample chemistry.

Soil samples will be collected directly from acetate sleeve of the Geoprobe® MacroCore sampler, the split-spoon sampler, or the hand auger bucket, depending on the sampling method. Soil aliquots will be collected from various sections of the sampled interval to assure that a representative sample of the zone of interest is collected. Soil samples will be field screened for the presence of VOCs using an organic vapor meter equipped with a PID, and the results will be documented in the field logbook.

Soil-gas samples will be collected from the VMPs using six (6) liter Summa canisters with control regulators that will fill each Summa canister in a 30-minute period. The rate of flow that will be used to collect the soil-gas vapor samples will be set at 200 mL/min. The Sub-Slab and Ambient

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Air samples will be collected using six (6) liter Summa canisters with control regulators that will fill each Summa canister in a four (4) hour period. The rate of flow that will be used to collect the sub-slab and ambient air samples will be set at 25 mL/min.

All samples will be collected in properly labeled sample containers with all necessary preservatives added. The laboratories will supply all necessary sample containers and preservatives. Samples requiring refrigeration for preservation will be immediately transferred to coolers packed with ice or ice packs and maintained at <4° Celsius. Proper chain-of-custody documentation will be maintained as discussed in *Section 7.3*.

7.4 Sample Custody

The primary objective of these sample custody procedures is to create an accurate written record that can be used to trace the possession and handling of all samples from the moment of their collection, through analysis, until their final disposition. Chain-of-Custody documentation for samples collected during this investigation will be maintained by the Project Manager or field team collecting the sample. The field team will be responsible for documenting each sample transfer and maintaining custody of all samples until they are shipped to the laboratory.

REIC will supply all necessary sample containers and preservatives. Custody of the sample bottles will be maintained by the Project Manager who will verify the integrity of the containers and ensure that the proper containers have been assigned to the task to be conducted.

A self-adhesive sample label will be affixed to each container prior to sample collection. The sample label will contain the following information:

- Job Name;
- Sample identification - sample location;
- Date and time collected;
- Sampler's initials;
- Analyses required; and
- Preservatives added.

Immediately following sample collection, each sample container will be sealed and packed in a cooler prepared for shipment or pickup by the laboratory. The samples will be properly relinquished on the field Chain-of-Custody record by the field team. These record forms will be sealed in a re-sealable plastic bag to protect them against moisture.

Upon receipt of the samples, the laboratory will store the samples in a secure sample storage cooler maintained at 4°C and maintain custody until the sample is assigned to an analyst for analysis. Custody will be maintained until disposal of the analyzed samples.

The laboratory will note any damaged sample containers or discrepancies between the sample label and information on the field Chain-of-Custody record and will document any discrepancies. This information will be communicated to the Project Manager within 48 hours so that proper action can be taken. The Chain-of-Custody form will be signed by both the relinquishing and receiving parties, each time the sample changes hands and the reason for transfer indicated. All chain-of-custody information will be supplied with the data packages for inclusion in the document control file. This information will be retained for a period of at least three years.

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7.5 Calibration Procedures and Frequency

Field instrument calibration and frequency are specified below.

The frequency of field calibration procedure will, at a minimum, include the following:

- The pH and specific conductance meters will be calibrated a minimum of once daily and documented in the calibrator's field book. Calibration will be checked as necessary to ensure proper measurements are taken;
- pH meters will be calibrated using specific techniques according to the manufacturer's instructions and two standard buffer solutions (either pH 4 and 7, or 7 and 10) obtained from chemical supply houses;
- Temperature measurements will be performed at the time of the sample collection using a field thermometer and recorded to $\pm$ 0.2°C;
- The specific conductance meter will be calibrated using a potassium chloride (KCl) solution according to manufacturer specifications; and
- The organic vapor meter will be calibrated daily in accordance with its operating manual to ensure total volatile organic readings are accurate. If calibration problems are encountered, calibration will become more frequent as required.

7.6 Analytical Procedures

Only EPA-approved analytical procedures will be used for the specific parameters of concern at the Site. Analytical procedures will be those found in "Test Methods for Evaluating Solid Wastes," 3rd Edition, November 1986 (SW-846). Specific analytical parameters are summarized in *Sections 3.1* through *3.3* herein.

7.7 Data Reporting, Validation and Reduction

Data validation practices will be followed to ensure that raw data is not altered and that an audit trail is developed for those data that required reduction. The field data will be entered directly into a bound field notebook. This notebook will contain documentation of times, dates, driller's names, sampling method used, sampling locations, number of samples taken, name of person taking samples, types of samples, results of field measurements, soil logs, observations, field instrument calibrations, and any problems encountered during sampling. Each project team member will be responsible for proofing all data transfer made and the Project Manager will proof at least 10% of all data transfers. Upon receipt of the sample data packages, the laboratory data will be qualitatively inspected by the Project Manager. In addition, 10% of the analytical results (and accompanying QA/QC data) per media including surface soils, subsurface soils, groundwater, and soil-gas will be validated by a qualified third-party reviewer in accordance with VRP requirements. Any problems/discrepancies will be communicated to the Project Manager/Licensed Remediation Specialist (LRS).

It is anticipated that data reduction for this investigation will be minimal and will consist primarily of tabulating analytical results onto summary tables. Equations and procedures for calculating concentrations are those in the specified SW-846 method. Blank results will not be subtracted from analytical results but will be reviewed for possible effects. All reduced data will be placed in the central file maintained by the Project Manager.

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All analytical data obtained during the course of the investigation for groundwater will be reported in units of micrograms per liter (µg/L). Analytical data for solid/soil samples will be reported on a dry weight basis in units of micrograms per kilogram (µg/Kg) for organic determinations, and in units of mg/Kg for inorganic determinations. Data packages associated with the analyses of samples collected during the investigation will contain lab QA/QC information, in addition to tabulated results. The laboratories will archive all raw analytical data for any future needs and evidentiary considerations. The Project Manager is responsible for maintaining a central file in which all project documents will be inventoried.

7.8 Internal Quality Control Checks

Field Internal QC checks will be utilized during this investigation through the use of the following:

Travel Blanks -Travel blanks will be analyzed for volatile organics. The travel blanks will serve as a QC check on container cleanliness and will indicate if volatile contamination in the environment of the container/sample handling is affecting the associated volatile samples. The travel blanks will consist of a VOA vial filled with deionized water and any preservatives required for that analysis. *One (1) travel blank will be sent for analysis daily for each major soil and water sampling event.* The vial will be capped, retain no air bubbles, and will be transported with the sample kit to the field and to the laboratory for VOC analysis.

Equipment Rinsate Blank - Equipment rinsate blanks will be collected to ensure that sampling equipment is clean and that the potential for cross contamination has been minimized by the equipment decontamination procedures. These blanks will be collected by decontaminating the sampling device and then pouring deionized water over the device. This rinsate water will be collected into a clean stainless-steel bowl and then transferred to the appropriate sample containers. *One (1) equipment rinsate blank will be collected for every 20 samples of the same media, analytical request, and equipment used for each major sampling event to include soil and water sampling.* The equipment rinsate blank will be analyzed for the parameters of concern.

Duplicate Samples - Blind duplicate samples will be collected to allow determination of analytical precision. One (1) duplicate sample in every 20 groundwater and soil samples will be collected and submitted for the required analyses.

Matrix Spike Sample - MS/MSD samples will also be submitted as further QC checks. These samples will be spiked at the laboratory. *These will be collected at the frequency of one (1) MS/MSD for every 20 field samples (not including travel blanks, field blanks, and blind duplicates).* These will allow accuracy to be determined by calculating the recovery rates of compounds (the matrix spike and/or surrogate spike compounds defined in the analytical methods). Precision will also be assessed by comparison of matrix spike duplicate recoveries. The purpose of these laboratory spikes is to monitor any possible matrix effects specific to samples collected from the Site. The addition of known concentrations of compounds/constituents into the sample also monitors extraction/digestion efficiency.

MS/MSD sample aliquots will be acquired for groundwater by providing triple the necessary sample volume for the location identified for three (3) QC samples. MS/MSD sample aliquots for solid/soil analyses will be split from the designated sample location at the laboratory. The laboratory will select aliquots that are as homogeneous with respect to one another as possible to avoid precision problems related to sample non-homogeneity. The specific sample location that will be used for MS/MSD will be chosen by the Project Manager.

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7.9 Private Field Maintenance

When equipment is damaged or in need of repair, it will be returned to the equipment room, and appropriately marked for the required maintenance to be performed. This process ensures that only operable and maintained equipment enters the field. Routine daily maintenance procedures conducted in the field will include the following:

- Removal of surface dirt and debris from exposed surfaces of the sampling equipment and measurement systems.
- Cleansing of filters on the organic vapor analyzer.
- Storage of equipment away from the elements.
- Daily inspection of sampling equipment and measurement systems for possible problems (e.g., cracked or clogged lines for tubing or weak batteries).
- Check instrument calibrations.
- Charging any battery packs for equipment when not in use.

7.10 Data Management Plan

The overall data management objective is to provide a complete database with a high degree of confidence. This will be accomplished by the design of data management at four levels: field data; sample management and tracking; data validation; and document control and inventory.

Field data collection will constitute the taking and recording of four types of data: raw measurements; observations or logs; procedural descriptions; and sample documentation (Chain-of-Custody). All data other than the chain-of-custody will be recorded in the bound field notebook. Should simultaneous data collection activities occur, multiple field notebooks would be utilized, all of which will be dedicated solely to this investigation.

For data validation purposes, 10% data validation is required of the analytical results per media and accompanying QA/QC data will be completed by a qualified third-party reviewer. Any problems/discrepancies will be communicated to the Project Manager. Upon validation, all data, field reports, sample custody documentation and raw data will be placed in a file to be maintained by the Project Manager. This file will also contain any photographs, computer disks and other non-paper items that were used in the development of the report. All support documentation and raw data will be maintained in-house for the duration of the investigation. Following the completion of the investigation, these data will be stored in a secure location.

The Project Manager will identify and document significant quality assurance problems discovered and corrective actions taken. This quality assurance evaluation will be submitted to the EPA as part of the Site Assessment Report.

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8.0 PRELIMINARY CONCEPTUAL SITE MODEL

The preliminary Conceptual Site Model (CSM) summarizes the processes by which COCs may impact potentially exposed populations and facilitates a consistent and comprehensive evaluation of risks by creating a framework for identifying the paths by which humans and the environment may be impacted by chemicals in environmental media. The preliminary CSM developed for current and future land uses at the Site is presented in **Figure 5**. The elements necessary to construct a complete exposure pathway and develop the conceptual model include:

1. Sources and COCs;
2. Transport mechanisms;
3. Exposure routes; and
4. Receptors.

An exposure pathway describes the mechanism by which an individual is exposed to COCs in, or originating from a source area. In order for an exposure pathway to be complete, there must be a chemical source/release, a point of contact by a receptor with the environmental medium, and an exposure route by which contact can occur. If the point of exposure is different from the source location, a transport medium is required.

As shown in the CSM, the focus is on the potential for an exposure pathway to exist that would be associated with the impacted soils and groundwater at the Site.

9.0 PROPOSED PROJECT SCHEDULE

The proposed schedule for implementation of Site Assessment activities at the Site as proposed herein is provided below. Note that the Project Schedule is contingent upon the timelines indicated below. Should the timelines vary, the project schedule will be delayed accordingly.

Task	Duration	Start	Finish
Submit: Site Assessment Work Plan to WVDEP	1 Day	July 16, 2024	July 16, 2024
WVDEP Review of Site Assessment Work Plan	4 Days	July 16, 2024	July 19, 2024
WVDEP Approve Site Assessment Work Plan	1 Day	July 19, 2024	July 19, 2024
Implement Site Assessment Work Plan:			
Geoprobe Investigation	7 Days	July 22, 2024	July 30, 2024
Groundwater Monitoring	2 Days	July 31, 2024	August 1, 2024
Soil-Gas Monitoring	1 Day	August 1, 2024	August 1, 2024

Data contained on this sheet shall not be disclosed without prior approval from KEMRON Environmental Services, Inc. (Proprietary)

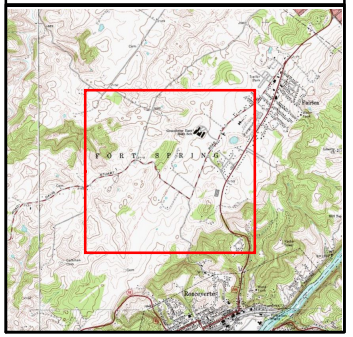
FIGURES

Data contained on this sheet shall not be disclosed without prior approval from KEMRON Environmental Services, Inc. (Proprietary)

LEGEND

Site Location

LOCATION MAP



TITLE

Site Location Map

KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services, Inc
108 Craddock Way, Suite 5
Poca, WV 25159

Greenbrier Valley Medical Center
1320 Maplewood Avenue
Ronceverte, WV 24970

Drawing Date: 06/04/24

Drawn by:	Review by:
EA	TLW

N

FIGURE: 1

Document Path: L:\GIS_Databases\WV Figures\Tymycha Holdings\Music Oupost, LLC\MXDs\Figure 1.mxd

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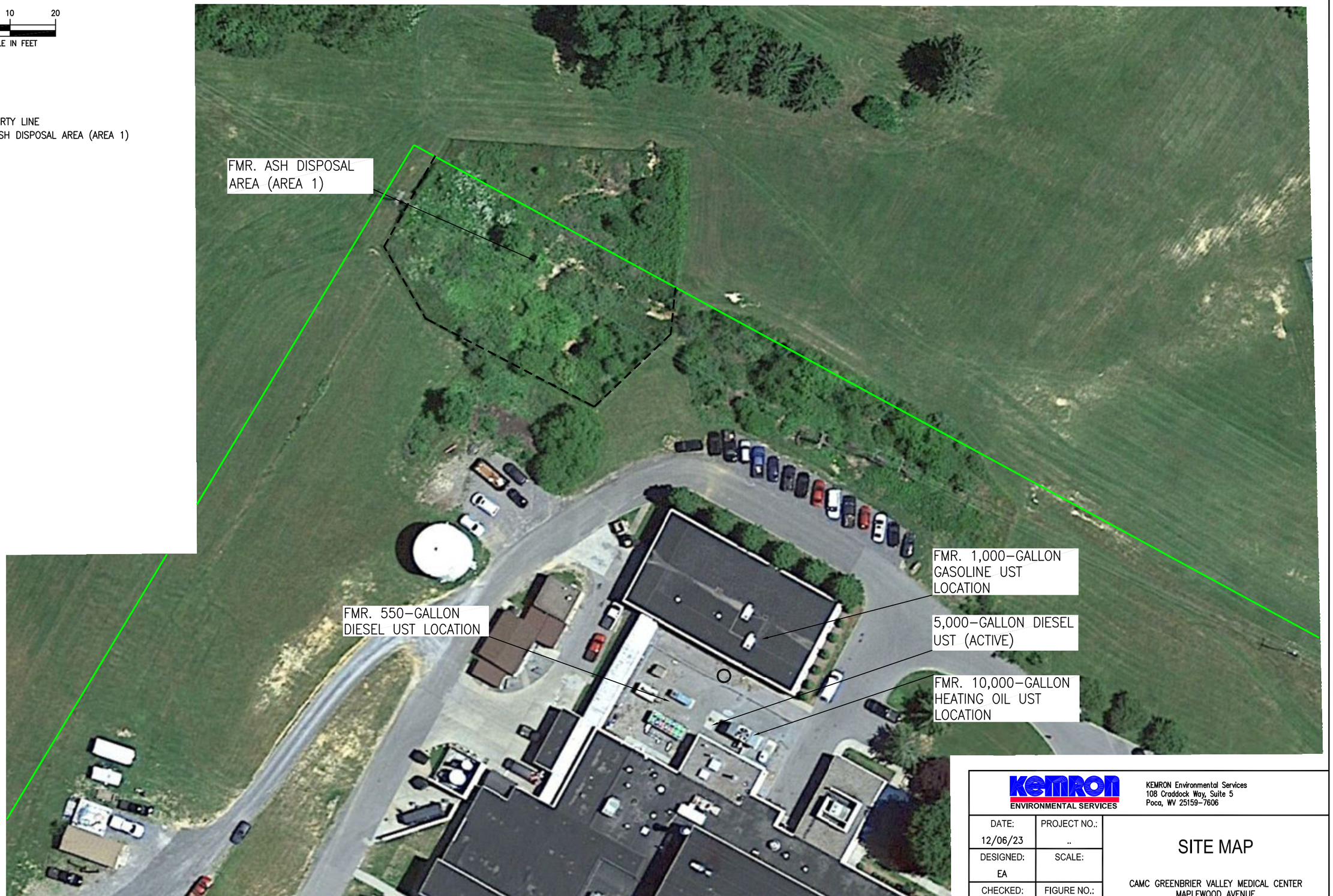
SCALE IN FEET

LEGEND:

PROPERTY LINE
FMR ASH DISPOSAL AREA (AREA 1)

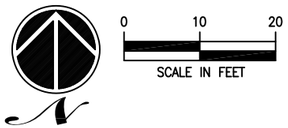


KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services
108 Craddock Way, Suite 5
Poca, WV 25159-7606

DATE:	PROJECT NO.:	SITE MAP
12/06/23	..	
DESIGNED:	SCALE:	
EA		
CHECKED:	FIGURE NO.:	CAMC GREENBRIER VALLEY MEDICAL CENTER MAPLEWOOD AVENUE RONCEVERTE, WV
TLW	2	

WVDOT PrincetonOverheadBridgeProject-01.dwg 10/26/20



LEGEND:

- PROPERTY LINE
- NOV 2022 SOIL SAMPLE LOCATION
- NOV 2022 EXPLORATORY BORING
- NOV 2022 BORING WITH TEMPORARY WELL
- NOV 2022 DRY BORING/TEMP. WELL

SAMPLE ID — SOIL CONCENTRATIONS EXCEEDED WVDEP RESIDENTIAL DE MINIMIS STANDARDS

SAMPLE ID — GW CONCENTRATIONS EXCEEDED WVDEP GW DE MINIMIS STANDARDS

KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services
108 Craddock Way, Suite 5
Poca, WV 25159-7606

DATE:	PROJECT NO.:
12/06/23	..
DESIGNED:	SCALE:
EA	
CHECKED:	FIGURE NO.:
TLW	3

HISTORICAL SOIL AND GROUNDWATER SAMPLING LOCATIONS MAP

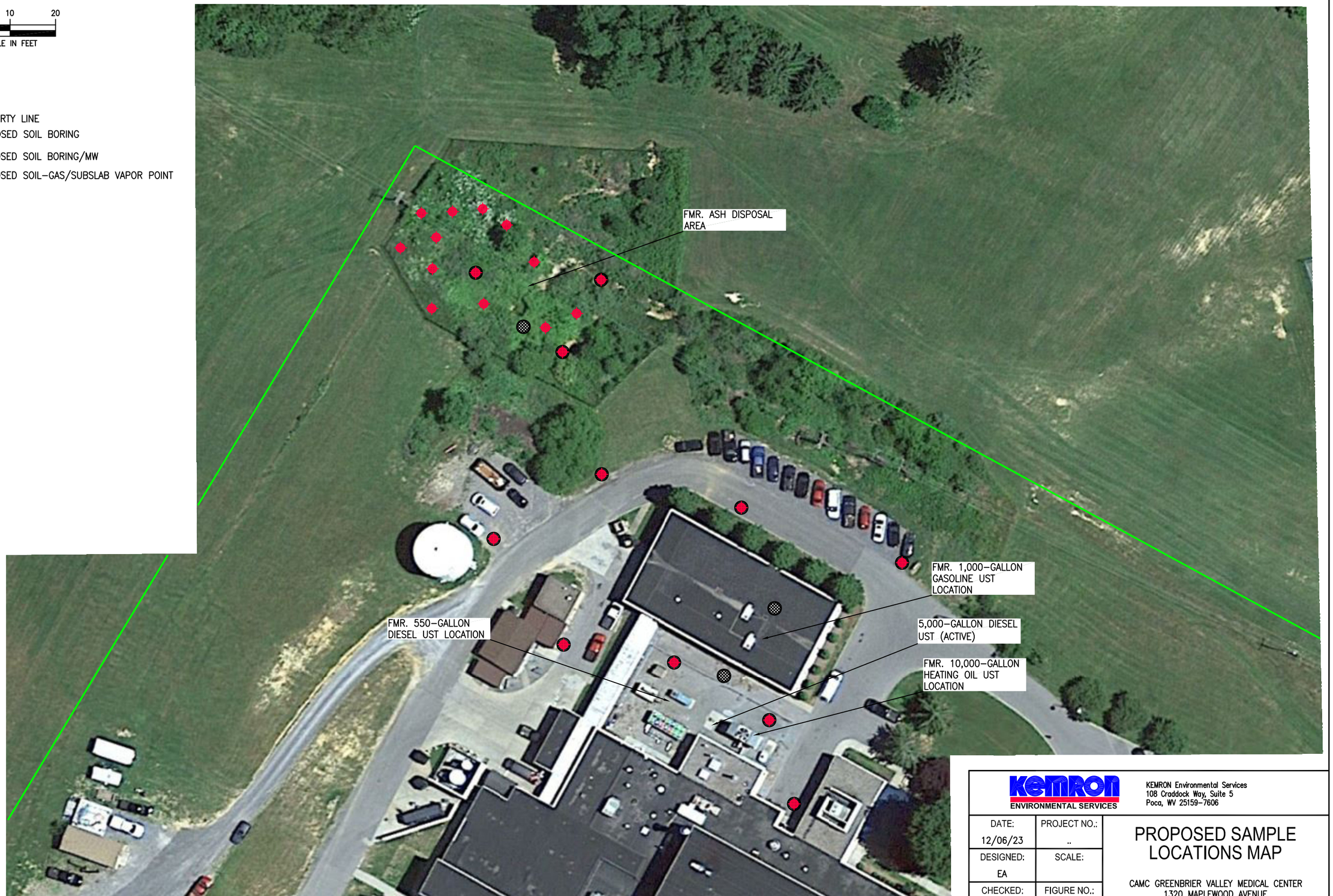
CAMC GREENBRIER VALLEY MEDICAL CENTER
1320 MAPLEWOOD AVENUE
RONCEVERTE, WV

WVDOT PrincetonOverheadBridgeProject-01.dwg 10/26/20

0 10 20
SCALE IN FEET

LEGEND:

- PROPERTY LINE
- PROPOSED SOIL BORING
- PROPOSED SOIL BORING/MW
- PROPOSED SOIL-GAS/SUBSLAB VAPOR POINT



KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services
108 Craddock Way, Suite 5
Poca, WV 25159-7606

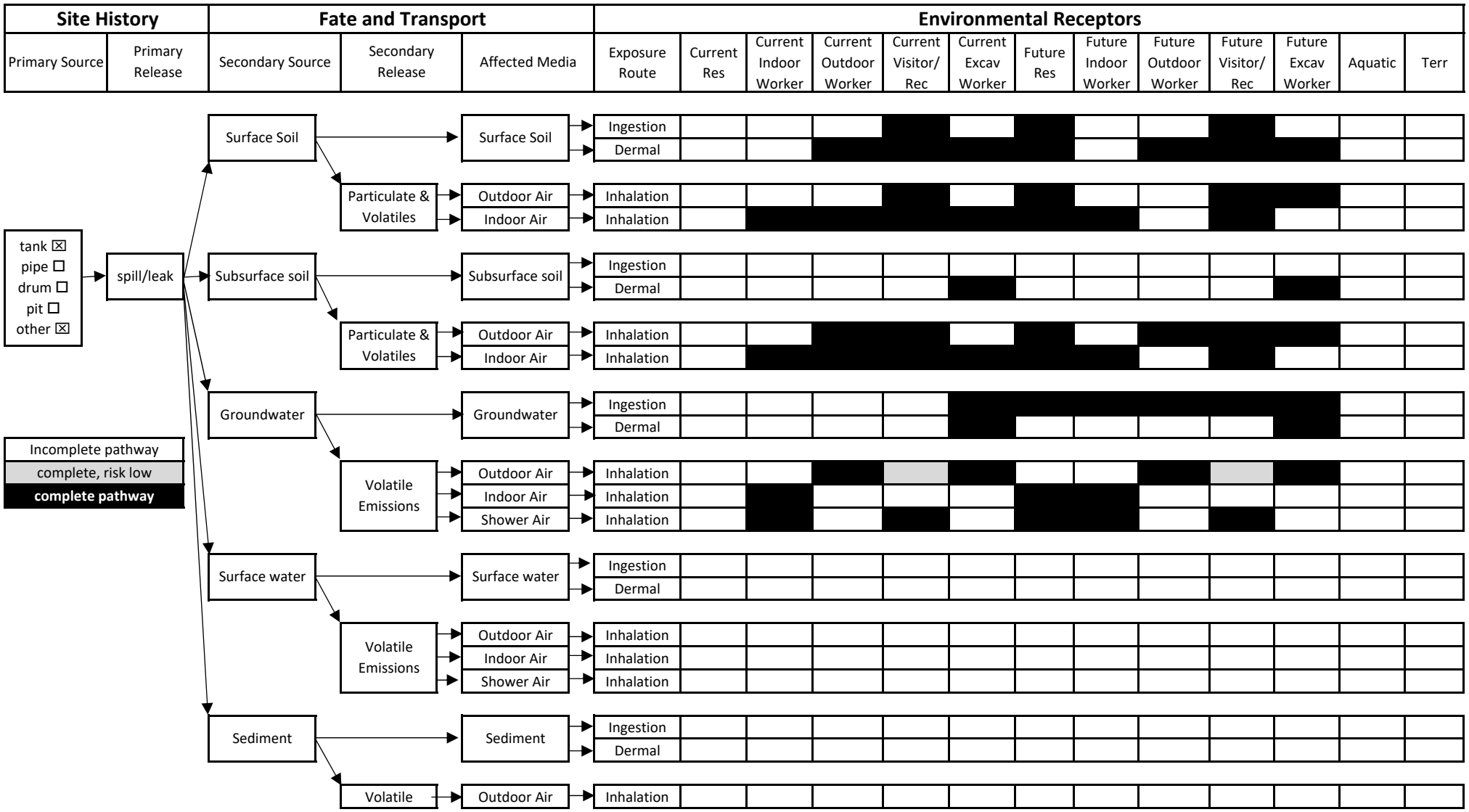
DATE:	PROJECT NO.:
12/06/23	..
DESIGNED:	SCALE:
EA	
CHECKED:	FIGURE NO.:
TLW	4

PROPOSED SAMPLE LOCATIONS MAP

CAMC GREENBRIER VALLEY MEDICAL CENTER
1320 MAPLEWOOD AVENUE
RONCEVERTE, WV

WVDOT PrincetonOverheadBridgeProject-01.dwg 10/26/20

Figure 5
Preliminary Conceptual Site Model: Receptor Pathway Analysis
Greenbrier Valley Medical Center
1320 Maplewood Avenue
Ronceverte, WV
VRP #24023



TABLES

Data contained on this sheet shall not be disclosed without prior approval from KEMRON Environmental Services, Inc. (Proprietary)

Table 1
Historical Soil Sample Analytical Results - November 2022
Greenbrier Valley Medical Center, Ronceverte, West Virginia

Analyte	Maximum Concentration of Contaminants for the Toxicity Characteristic of Hazardous Waste[1]	WV UST Guidance - Tier 1 Soil Action Levels	WV Table 60-3B De Minimis Standards Residential Soil	WV Table 60-3B De Minimis Standards Industrial Soil	Sample ID	B-1/TMW-1/18	B-1/TMW-1/21	B-3/5	B-5/5	B-6/8	B-6/13	B-9/7	B-9/9.5	B-19/5	B-20/5	B-22/3	B-23/3	B-24/3
					Depth (feet)	18	21	5	5	8	13	7	9.5	5	5	3	3	3
					Location	Fenced Area		Stockpile	Stockpile	Between Middle and Northern Sinkholes		Near drainage ditch and fence		Drainage Ditch		Middle Sinkhole	Southern Sinkhole	Nothern Sinkhole
					Date Collected	11/02/2022	11/02/2022	11/03/2022	11/03/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/03/2022	11/03/2022	11/03/2022	11/03/2022	11/03/2022
USEPA Method 6010 D (mg/L)																		
BARIUM	100					**0.785**	**0.233**	**0.506**	**0.41**	**0.189**	**0.188**	**0.378**	**0.431**	**0.254**	**0.133**	**0.226**	**0.286**	**1.34**
USEPA Method 8260D (mg/kg)																		
BENZENE		0.13	1.2	57		**0.00816**	**0.00166**	<0.00100	<0.00100	**0.00275**	**0.00122**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
USEPA Method 8270 (mg/kg)																		
BENZO(A)ANTHRACENE		1	0.21	88		<0.0333	<0.0333	<0.0333	**0.0773**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0472**	<0.0333
BENZO(B)FLUORANTHENE		1	0.16	43		<0.0333	<0.0333	**0.0598**	**0.152**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0902**	<0.0333
BENZO(K)FLUORANTHENE		1	1.6	430		<0.0333	<0.0333	<0.0333	**0.0508**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333
BENZO(G,H,I)PERYLENE		1800	1800	33000		<0.0333	<0.0333	**0.0333**	**0.055**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0476**	<0.0333
BENZO(A)PYRENE		1	0.016	4.3		<0.0333	<0.0333	**0.0384**	**0.106**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0668**	<0.0333
CHRYSENE		1	16	4300		<0.0333	<0.0333	**0.0412**	**0.107**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0644**	<0.0333
FLUORANTHENE		2400	2400	44000		<0.0333	<0.0333	**0.0596**	**0.16**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0981**	<0.0333
INDENO(1,2,3-CD)PYRENE		1	0.16	43		<0.0333	<0.0333	**0.0372**	**0.0645**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0544**	<0.0333
PHENANTHRENE		23000	23000	700000		<0.0333	<0.0333	<0.0333	**0.0442**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333
PYRENE		2300	2300	66000		<0.0333	<0.0333	**0.047**	**0.132**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0764**	<0.0333

NOTES:

[1] 40 CFR 261.24

Only detected analytes are presented, and detected concentrations are indicated in bold.

mg/L: milligrams per liter

mg/kg: milligrams per kilogram

NE: Standards not established for the contaminant and/or exposure pathway.

<: Not Detected at the reporting limit shown

Where applicable, detected concentrations are highlighted as follows:

Exceeds De Minimis Standards for Residential Soil

Exceeds De Minimis Standards for Industrial Soil

Table 2
Historical Groundwater Sample Analytical Results - November 2022
Greenbrier Valley Medical Center, Ronceverte, West Virginia

Analyte	WV 47CSR12 Appendix A Groundwater Standards	WV UST Guidance - Table 4	WV Voluntary Remediation Program Table 60-3B De Minimis Groundwater Standards	Sample ID	B-16/TMW-6	B-17/TMW-7	B-18/TMW-8
				Location	Between loading dock and sinkhole area	Between drainage ditch and building	Between sinkhole fence and water tank
				Date Collected	11/03/2022	11/03/2022	11/03/2022
VOCs - USEPA Method 8260D (mg/L)							
BARIUM	2	NE	2		**0.155**	NA[1]	**0.0990**
BARIUM, DISSOLVED	2	NE	2		**0.100**	**0.0387**	**0.0919**
CHROMIUM	0.1	NE	NE		**0.0148**	NA[1]	<0.0100
CHROMIUM, DISSOLVED	0.1	NE	NE		<0.0100	<0.0100	<0.0100
LEAD	0.015	0.015	0.015		**0.00607**	NA[1]	<0.00600
LEAD, DISSOLVED	0.015	0.015	0.015		<0.00600	<0.00600	<0.00600
BENZENE	0.005	0.005	0.005		**0.0122**	**0.00216**	<0.00100
N-BUTYLBENZENE	NE	NE	1		**0.0246**	<0.00100	<0.00100
SEC-BUTYLBENZENE	NE	NE	NE		**0.0167**	**0.00174**	<0.00100
1,2-DICHLOROETHANE	0.005	NE	0.005		<0.00100	**0.00721**	<0.00100
DI-ISOPROPYL ETHER	NE	NE	NE		<0.00100	**0.00111**	<0.00100
ETHYLBENZENE	0.7	0.7	0.7		**0.11**	**0.00221**	<0.00100
ISOPROPYLBENZENE	NE	NE	0.45		**0.123**	**0.0114**	<0.00100
P-ISOPROPYLTOLUENE	NE	NE	NE		**0.00743**	<0.00100	<0.00100
2-BUTANONE (MEK)	NE	NE	5.6		<0.0100	**0.0172**	<0.0100
METHYL TERT-BUTYL ETHER	NE	0.040	0.014		<0.00100	**0.00179**	<0.00100
NAPHTHALENE	NE	NE	0.00017		**0.0731 C3**	<0.00500 C3	<0.00500 C3
N-PROPYLBENZENE	NE	NE	0.66		**0.176**	**0.00689**	<0.00100
TOLUENE	1	1	1		**0.00123**	<0.00100	<0.00100
1,2,4-TRIMETHYLBENZENE	NE	NE	0.015		**0.254**	<0.00100	<0.00100
1,2,3-TRIMETHYLBENZENE	NE	NE	NE		**0.0396**	<0.00100	<0.00100
1,3,5-TRIMETHYLBENZENE	NE	NE	0.12		**0.0988**	**0.00112**	<0.00100
XYLENES, TOTAL	10	10	10		**0.152**	<0.00300	<0.00300
SVOCs - USEPA Method 8270C (mg/L)							
NAPHTHALENE	0.00017	NE	0.00017		**0.0281**	<0.00100	<0.00100

NOTES:

[1] Due to limited yield from this well, not all analyses could be completed.

NA: Not analyzed

Except where metals were detected are are compared with dissolved concentrations, only detected analytes are presented, and detected concentrations are indicated in bold.

mg/L: milligrams per liter

NE: Standards not established for the contaminant and/or exposure pathway.

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

<: Not Detected at the reporting limit shown

Where applicable, detected concentrations are highlighted as follows:

Exceedance of one or more groundwater standards

Table 3
Sampling By Matrices
CAMC - Greenbrier Valley Medical Center
Ronceverte, West Virginia
VRP #24023

Activity	Sample-Matrix	No. of Samples	Constituents	Method	Sample Container Type	Preservative	Hold Time
Geoprobe (includes Surface Soil samples)	GP-Soil	46	VOCs*	8260	Terra Core Kit	$NaHSO_3$, Methanol	14 days
		46	SVOCs	8270	4 oz. jar	Cool, ≤6° (without freezing)	14 days
		46	PAHs	8270 SIM	4 oz. jar	Cool, ≤6° (without freezing)	14 days
		46	RCRA Metals	6010	4 oz. jar	Cool, ≤6° (without freezing)	6 months
		30	Dioxins and Furans	8290	4 oz. jar	Cool, ≤6° (without freezing)	30 days
	Equipment Blank-Water	8	VOCs	8260	3 40 mL VOAs	HCL	14 days
		8	SVOCs	8270	1L Amber Glass	Cool, ≤6° (without freezing)	14 days
		8	PAHs	8270 SIM	100 mL Amber Glass	Cool, ≤6° (without freezing)	7 days
		8	RCRA Metals	6010	1L Plastic	Nitric Acid	6 months
		8	Dioxins and Furans	8290	1L Amber Glass	Cool, ≤6° (without freezing)	30 days
	Duplicate-Soil	4	VOCs*	8260	Terra Core Kit	$NaHSO_3$, Methanol	14 days
		4	SVOCs	8270	4 oz. jar	Cool, ≤6° (without freezing)	14 days
		4	RCRA Metals	6010	4 oz. jar	Cool, ≤6° (without freezing)	6 months
		2	Dioxins and Furans	8290	4 oz. jar	Cool, ≤6° (without freezing)	30 days
	MS/MSD-Soil	4	VOCs*	8260	Terra Core Kit	$NaHSO_3$, Methanol	14 days
		4	SVOCs	8270	4 oz. jar	Cool, ≤6° (without freezing)	14 days
		4	RCRA Metals	6010	4 oz. jar	Cool, ≤6° (without freezing)	6 months
		2	Dioxins and Furans	8290	4 oz. jar	Cool, ≤6° (without freezing)	30 days
Groundwater Sampling	MW-Water	11	VOCs	8260	3 40 mL VOAs	HCL	14 days
		11	SVOCs	8270	1L Amber Glass	Cool, ≤6° (without freezing)	7 days
		11	PAHs	8270 SIM	100 mL Amber Glass	Cool, ≤6° (without freezing)	7 days
		11	RCRA Metals	6010	500 mL Plastic	Nitric Acid	6 months
		3	Dioxins and Furans	8290	1L Amber Glass	Cool, ≤6° (without freezing)	30 days
	Equipment Blank-Water	3	VOCs	8260	3 40 mL VOAs	HCL	14 days
		3	SVOCs	8270	1L Amber Glass	Cool, ≤6° (without freezing)	7 days
		3	RCRA Metals	6010	500 mL Plastic	Nitric Acid	6 months
		1	Dioxins and Furans	8290	1L Amber Glass	Cool, ≤6° (without freezing)	30 days
	Duplicate-Water	1	VOCs	8260	3 40 mL VOAs	HCL	14 days
		1	SVOCs	8270	1L Amber Glass	Cool, ≤6° (without freezing)	7 days
		1	PAHs	8270 SIM	100 mL Amber Glass	Cool, ≤6° (without freezing)	7 days
		1	RCRA Metals	6010	500 mL Plastic	Nitric Acid	6 months
		1	Dioxins and Furans	8290	1L Amber Glass	Cool, ≤6° (without freezing)	30 days
	Travel Blank - Water	1	VOCs	8260	3 40 mL VOAs	HCL	14 days
	MS/MSD-Water	1	VOCs	8260	3 40 mL VOAs	HCL	14 days
		1	SVOCs	270 PAHL SI	1L Amber Glass	Cool, ≤6° (without freezing)	7 days
		1	PAHs	8270 SIM	100 mL Amber Glass	Cool, ≤6° (without freezing)	7 days
		1	RCRA Metals	6010	500 mL Plastic	Nitric Acid	6 months
Soil-Gas/Sub-Slab/Ambient Air Sampling	Soil-Gas VMP	2	VOCs	TO-15	6L Summa	none	30 days
	Duplicate - Soil-Gas	1	VOCs	TO-15	6L Summa	none	30 days
	Sub-Slab VMP	1	VOCs	TO-15	6L Summa	none	30 days
	Ambient Air	1	VOCs	TO-15	6L Summa	none	30 days

*** - Note that soil samples submitted for Naphthalene analysis via 8260 should use the methanol-preserved vial**

APPENDIX A

DRAFT VOLUNTARY REMEDIATION AGREEMENT

Data contained on this sheet shall not be disclosed without prior approval from KEMRON Environmental Services, Inc. (Proprietary)

WEST VIRGINIA VOLUNTARY REMEDIATION AGREEMENT FOR INVESTIGATION AND REMEDIATION ACTIVITIES

I. INTRODUCTION

1. The West Virginia Department of Environmental Protection (WVDEP), by its Secretary, and CAMC Greenbrier Valley Medical Center (Applicant) hereby enter into this Voluntary Remediation Agreement (Agreement), pursuant to the Voluntary Remediation and Redevelopment Act, W. Va. Code § 22-22-1, et seq. (the Act), for the purpose of investigating and remediating the property that is the subject of this Agreement (the Site).

2. Applicant reserves all rights it may have under common law, the West Virginia Code, and federal statutes to seek contribution or indemnity. WVDEP reserves all rights it may have under common law, the West Virginia Code, and federal statutes to seek contribution or indemnity from persons other than Applicant and those persons identified in W. Va. Code § 22-22-18.

3. By entering into this Agreement, Applicant neither admits nor denies liability for the conditions on the Site.

II. STATEMENT OF ELIGIBILITY

4. The Secretary has determined that the Voluntary Remediation Program Application submitted by Applicant is complete and that Applicant is eligible to participate in the Voluntary Remediation Program. However, neither the Secretary's determination of eligibility nor the entry into this Agreement precludes any finding by the Secretary at a later date that the Site poses an imminent and substantial threat to human health or the environment within the meaning of W. Va. Code § 22-22-7(d). In addition, if the Secretary determines that Applicant withheld or misrepresented information that would be relevant to Applicant's eligibility, the Secretary may withdraw from this Agreement.

III. PARTIES BOUND

5. This Agreement applies to and is binding upon Applicant, its officers, secretaries, principals, employees, agents, successors, subsidiaries, and assigns and upon WVDEP, its employees, agents, and successors. The signatories to this Agreement certify that they are fully authorized to execute and legally bind the parties they represent. No change in ownership, corporate, or partnership status of Applicant shall in any way alter its status or responsibilities under this Agreement unless Applicant or WVDEP withdraws from this Program as provided herein.

6. Applicant shall provide a copy of this Agreement to any subsequent owners or successors before Applicant transfers any ownership rights.

IV. DEFINITIONS

7. "Day" means a calendar day with the 24-hour period between 12:00 A.M. – 12:00 A.M.

8. "Rule" means the Voluntary Remediation and Redevelopment Rule, 60CSR3, promulgated pursuant to the Act.

9. "Site" has the meaning ascribed to it in the Act and, for purposes of this Agreement, means the property located in Ronceverte, West Virginia, and is more particularly described in the Voluntary Remediation Program Application submitted to WVDEP and accepted by letter dated June 17, 2024.

10. All other terms contained in this Agreement shall be used in the manner as defined by W. Va. Code § 22-22-2 or the Rule.

V. STATEMENT OF PURPOSE

11. This Agreement sets forth necessary terms and conditions to satisfy the requirements of the Act for the investigation and remediation of the Site.

12. The activities conducted by Applicant under this Agreement are subject to approval by WVDEP as provided herein. The activities conducted by Applicant shall be consistent with this Agreement, all applicable laws and rules, and any appropriate guidance documents.

VI. WORK TO BE PERFORMED

13. All work to be performed by Applicant pursuant to this Agreement shall be under the direction and supervision of a Licensed Remediation Specialist (LRS). Applicant may designate the LRS as Applicant's project manager pursuant to Paragraph 27.

14. Applicant shall submit electronic copies of voluntary remediation work plans and reports which, when implemented, provide for the attainment of the applicable remediation standards.

    Prior to the filing of the Voluntary Remediation Program Application and prior to the execution of this Agreement, Applicant has undertaken work at the Site. The LRS has accepted and approved the following documents in support of the requirements of the Act for the investigation and remediation of the Site:

    Greenbrier Valley Medical Center UST Removal (META Associates, 1993)

    Closure Report for the Removal of One 550-gallon Diesel Underground Storage Tank (UST) at the Greenbrier Valley Medical Center (Marshall Miller & Associates, 1994)

    Phase II Environmental Site Investigation Report (Bridge House Advisors, 2022)

For the purposes of remediation and preparing Final Reports, Applicant may divide the Site into separate areas, and use different human health and ecological remediation standards (e.g., De Minimis, Uniform Risk-Based, and Site-Specific Risk-Based) for these individual areas. Applicant currently contemplates that the Site will be subdivided into the following areas:

Area 1:
Former incinerator ash waste disposal area located in fenced in area on northwestern corner of property.

Area 2:
Remainder of property.

15. The voluntary remediation work plans submitted with this Agreement include the following:

    Site Assessment Work Plan

16. The parties agree that the remediation standards to be achieved at the Site, consistent with Section 9 of the Rule; and where applicable, the engineering or institutional controls and any land use covenant to be imposed for the property, will be determined upon the Secretary's approval of the work plans and reports submitted in accordance with this Agreement.

VII. SUBMITTAL AND APPROVAL OF WORK PLANS OR REPORTS

17. Applicant shall submit electronic copies of the following work plans or reports in accordance with the following schedule:

Document	Due
Site Assessment Work Plan (SAWP)	90 days after Agreement
Site Assessment Report (SAR)	90 days after SAWP approval
Data Validation Report (DVR)	90 days after SAR approval
Human Health & Ecological Risk Assessment (HHERA)	90 days after DVR approval
Remedial Action Work Plan (RAWP)	90 days after HHERA approval
Remedial Action Completion Report (as applicable)	90 days after RAWP approval

When Applicant plans additional work plans, or reports as a follow-up to initial or subsequent activities, or additional or revised work plans or reports are required to achieve the desired remediation standards, Applicant shall submit electronic copies of the future work plans, reports, and schedules in accordance with a modification to this Agreement.

18. The Secretary may, based upon accuracy, quality, and completeness, either approve or disapprove a work plan or report submitted by Applicant.

19. If the Secretary disapproves a work plan or report, the Secretary must, within five (5) days of its disapproval, notify Applicant in writing that he or she has disapproved its work plan or report. The written notice shall include a list specifying the reasons that the Secretary disapproved the work plan or report and shall specify all additional information the Secretary needs in order to approve the work plan or report.

20. If the Secretary disapproves a work plan or report as submitted, Applicant must resubmit the work plan or report or terminate this Agreement as provided herein.

21. Except for the Final Report as described in the Rule and Paragraph 24 of this Agreement, the Secretary shall either approve or disapprove all work plans and reports, including resubmitted work plans and reports, within thirty (30) days of receipt. The Secretary shall take action on a work plan or report and send confirmation in writing to Applicant within the thirty (30)-day period. The parties may mutually agree to an extension of time for the Secretary to approve or disapprove the work plans or reports, and confirm the extension in writing.

22. If the Secretary does not approve or disapprove work plans or reports or resubmitted work plans or reports within thirty (30) days of receipt by the Secretary, then the work plans or reports are deemed approved unless the Secretary determines the work plans or reports are materially inaccurate.

23. Any notice required to be given under the provisions of this Agreement shall be in writing and sent electronically with proof of receipt required. Notice is complete upon receipt.

24. Upon completion of the work contemplated by all work plans, Applicant shall submit to the Secretary an electronic copy of the Final Report prepared by the LRS, along with a request for a Certificate of Completion as required in the Rule. The Final Report shall include all information necessary for the Secretary to verify that Applicant has completed all work contemplated by the work plans and provided all information required by the Rule. Upon receiving the request for a Certificate of Completion, the Secretary shall evaluate the Final Report provided by Applicant and determine, within sixty (60) days, whether the LRS properly issued the Final Report.

VIII. ADDRESSES FOR ALL CORRESPONDENCE

25. The parties shall send all documents required by this Agreement, including reports, approvals, notifications, disapprovals, and other correspondence electronically to the following addresses or to alternate addresses as Applicant or WVDEP may designate in writing.

    (a) Documents to be submitted to WVDEP should be sent to:

West Virginia Department of Environmental Protection
Office of Environmental Remediation
601 57th Street SE
Charleston, WV 25304
Phone: 304-926-0499
Email: DEPOERFileCopy@wv.gov

With a copy of all documents sent to the WVDEP project manager:

Kevin Richardson
WVDEP-OER
1159 Nick Rahall Greenway
Fayetteville, WV 25840
Phone: (304) 545-2134
Email: Kevin.Richardson@wv.gov

(b) Documents to be submitted to Applicant should be sent to:

Attn: Steven Arthur
CAMC Greenbrier Valley Medical Center
1320 Maplewood Avenue
Ronceverte, WV 24970
Phone: (304) 647-6036
Email: Steven.Arthur@vandaliahealth.org

With a copy of all documents sent to the Licensed Remediation Specialist:

Terry L. Wilfong, Jr., LRS
KEMRON Environmental Services, Inc.
108 Craddock Way, Ste 5
Poca, WV 25159
Phone: (304) 755-0999
Email: tlwilfong@kemron.com

and

Abdo Chaber
KEMRON Environmental Services, Inc.
108 Craddock Way, Ste 5
Poca, WV 25159
Phone: (304) 552-9611
Email: achaber@kemron.com

IX. COMPLIANCE WITH APPLICABLE LAWS

26. All work undertaken by Applicant pursuant to this Agreement shall be performed in compliance with all applicable federal, state, and local laws, ordinances, and regulations. Applicant shall be responsible for obtaining all permits where necessary for the performance of any work hereunder. Specific statutes and rules with which compliance is mandated in connection with the investigation or remediation of the Site are as follows:

    (a) Surface Coal Mining and Reclamation Act, W. Va. Code § 22-3-1, et seq.;
    (b) Air Pollution Control Act, W. Va. Code § 22-5-1, et seq.;
    (c) Water Pollution Control Act, W. Va. Code § 22-11-1, et seq.;
    (d) Groundwater Protection Act, W. Va. Code § 22-12-1, et seq.;
    (e) Solid Waste Management Act, W. Va. Code § 22-15-1, et seq.;
    (f) Underground Storage Tank Act, W. Va. Code § 22-17-1, et seq.;
    (g) Hazardous Waste Management Act, W. Va. Code § 22-18-1, et seq.;
    (h) The Aboveground Storage Tank Act, W. Va. Code § 22-30-1, et seq.;
    (i) Section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. § 9603(a)
    (j) Section 304 of the Emergency Planning and Community Right-To-Know Act, 42 U.S.C. § 11001 to 11050;
    (k) Occupational Safety and Health Act, 29 U.S.C. § 651 to 678;
    (l) Resource Conservation and Recovery Act, 42 U.S.C. § 6901, et seq.;
    (m) Toxic Substances Control Act, 15 U.S.C. § 2601, et seq.; and
    (n) Any applicable rule or regulation promulgated thereunder.

X. PROJECT MANAGER/LICENSED REMEDIATION SPECIALIST

27. The WVDEP Project Manager for the Site is identified in Paragraph 25 of this Agreement. Applicant has designated Terry Wilfong, Jr. (LRS #169) as Applicant's Licensed Remediation Specialist and Abdo Chaber as project manager for the Site. The LRS is responsible for the supervision of all activities under this Agreement. The WVDEP project manager is the WVDEP-designated representative at the Site. To the maximum extent possible, Applicant and WVDEP shall direct all communications and all documents (including reports, approvals, and other correspondence) concerning the activities performed pursuant to the terms and conditions of this Agreement through the project managers. During the implementation of this Agreement, the project managers shall, whenever possible, operate by consensus and shall attempt in good faith to resolve disputes informally through discussion of the issues. Each party has the right to change its respective project manager or LRS and shall notify the other party of the change in writing within fourteen (14) days and shall execute a modification to this Agreement within thirty (30) days.

28. Work at the Site shall not stop solely due to the absence of Applicant's or WVDEP's project manager or Licensed Remediation Specialist from the Site. Applicant's project manager, LRS, or LRS's supervisor shall reasonably be available by telephone while work is being performed. Applicant shall designate a person to be in charge who will be available onsite when field work is being performed.

XI. QUALITY ASSURANCE

29. Applicant shall use quality assurance, quality control, and chain of custody procedures in accordance with the Quality Assurance Project Plan approved for use by WVDEP throughout any work plan sample collection and analysis activities pursuant to this Agreement, unless otherwise approved by WVDEP in writing.

30. Applicant shall provide the WVDEP project manager with written notice (e.g., electronic mail) seven (7) days prior to beginning any field activities detailed in any work plan described in this Agreement. To provide quality assurance and maintain quality control, Applicant shall:

    (a) Use laboratories certified by WVDEP;

    (b) Ensure that all sampling and analyses are performed according to U.S. EPA methods, the approved Quality Assurance Project Plan, or other methods deemed satisfactory by WVDEP; and

    (c) Ensure that any laboratories used by Applicant for analyses participate in a documented Quality Assurance/Quality Control Program that complies with U.S. EPA guidance documents. As part of such a program, and upon request by WVDEP, such laboratories shall perform analyses of samples provided by WVDEP to demonstrate the quality of analytical data for each such laboratory.

    Applicant may use a WVDEP-certified mobile laboratory with the advance written approval of the WVDEP project manager.

31. In the event any laboratory fails to perform the activities required above, WVDEP reserves the right to reject any data not gathered pursuant to the requirements listed above, and to require that Applicant utilize a different laboratory.

XII. SAMPLING AND DATA/DOCUMENT AVAILABILITY

32. Upon request by WVDEP, Applicant shall make available to WVDEP the results of all sampling, including raw data and/or tests or other data generated by Applicant or on Applicant's behalf. WVDEP shall make available to Applicant the quality-assured results of sampling and/or tests or other data similarly generated by WVDEP.

33. At the request of WVDEP, Applicant shall permit an authorized representative of WVDEP to take samples of wastes, soils, air, surface water, and groundwater at the Site. For each sample taken, the authorized representative shall provide Applicant a receipt describing the sample obtained and, if requested, a portion of each sample equal in weight or volume to the portion retained.

XIII. ACCESS

34. To the extent that the Site or other areas where work is performed hereunder is presently owned or controlled by parties other than those bound by this Agreement, Applicant shall obtain, or use its best efforts to obtain, access agreements from the present owners. Best efforts shall include, at a minimum, a certified letter from Applicant to the present owner of the property requesting access agreements to permit Applicant or any authorized representative of WVDEP access to the property. The access agreement shall provide access for authorized representatives of WVDEP as specified below. In the event Applicant cannot obtain access agreements, Applicant shall so notify WVDEP, which may then, at its discretion, assist Applicant in gaining access.

35. Upon presentation of proper credentials, Applicant shall provide authorized representatives of WVDEP access to the Site and other areas where work is to be performed under this Agreement at all reasonable times. WVDEP's access shall be related solely to the work being performed on the Site and shall include, but not be limited to: inspecting records, operating logs, and contracts related to the Site; reviewing the Applicant's progress in carrying out the terms of this Agreement; and conducting any tests, inspections, and sampling as WVDEP may deem necessary consistent with this Agreement. Applicant shall permit WVDEP's authorized representatives to inspect and copy all records, files, photographs, documents, and other writings, including all sampling and monitoring data, which pertain to this Agreement over which Applicant exercises control. All persons with access to the Site pursuant to this Agreement shall comply with any applicable health and safety plans.

36. Nothing herein shall be construed as restricting the inspection or access authority of WVDEP under any law or regulation.

XIV. RECORD PRESERVATION

37. Applicant agrees to preserve, during the pendency of this Agreement, and for a minimum of three (3) years after its termination, all documents required by this Agreement and any other documents generated or used to prepare the documents required by this Agreement. Upon request by WVDEP, Applicant shall make available to WVDEP the records, or copies thereof.

38. Applicant may assert a confidentiality claim for any information submitted pursuant to this Agreement on the grounds that information, or parts thereof, if made public would divulge methods, processes, or activities entitled by the West Virginia Freedom of Information Act, W. Va. Code § 29B-1-1, et seq. to protection as trade secrets. If no confidentiality claim accompanies the information when it is submitted to WVDEP, WVDEP may make it available to the public without further notice to Applicant. Applicant agrees not to assert any confidentiality claim with regard to any physical or analytical data regarding environmental conditions at the Site.

XV. DISPUTE RESOLUTION

39. The parties shall use their best efforts to, in good faith, resolve all disputes or differences of opinion informally. The period of informal resolution shall not exceed thirty (30) days from the time that either party commences informal resolution by verbally citing the dispute with reference to this paragraph to the other party, unless the parties agree otherwise in writing. If, however, the parties are unable to resolve the dispute informally, Applicant may, no later than ten (10) days after the expiration of the informal dispute resolution period, request a hearing, in writing, with the Secretary, which request shall set forth the nature of the dispute and Applicant's proposed remedy.

40. Within sixty (60) days from the date the Secretary receives Applicant's request, the Secretary or the Secretary's designee, acting as a hearing examiner, shall hold a hearing on the parties' dispute. In conducting the hearing, the Secretary or the Secretary's designee, acting as a hearing examiner, shall follow the procedures contained in the West Virginia Administrative Procedures Act, W. Va. Code § 29A-5-1, et seq.

41. If Applicant is aggrieved by the Secretary's decision, Applicant may either appeal the Secretary's decision in accordance with the provisions in W. Va. Code § 29A-5-4 or withdraw from this Agreement.

42. Until the dispute is resolved, all parties shall halt any actions concerning that element of work in dispute. The parties shall incorporate into the work plan the resolution of the dispute, which becomes an enforceable part thereof. The parties shall extend the time schedule for the work in dispute by the amount of time needed for resolution. Applicant shall complete elements of work and/or obligations not affected by the dispute in accordance with the schedule contained in the work plan.

43. The parties shall immediately incorporate, if necessary, elements of work and any actions required as a result of the dispute resolution into the appropriate plan or procedure, and into this Agreement. Applicant shall proceed with all remaining work according to the modified plan or procedure.

XVI. FORCE MAJEURE

44. Applicant shall perform all work and reporting required by this Agreement within the time limits set forth herein, unless performance is delayed by events which constitute a force majeure. "Force Majeure" means conditions or circumstances beyond the reasonable control of Applicant which could not have been overcome by due diligence and shall include, without limitation, acts of God, action or inaction of other governmental agencies, or administrative or judicial tribunals or other third parties, or strikes or labor disputes (provided, that Applicant is not required to concede to any labor demands), which prevent or delay Applicant from complying with the work plan.

45. Applicant shall notify WVDEP by telephone within five (5) days and by writing no later than ten (10) days after any event, which Applicant contends is a Force Majeure. The

notification shall describe the anticipated length of the delay, the cause or causes of the delay, the measures taken or to be taken by Applicant to minimize the delay, and the timetable by which these measures will be implemented. Applicant has the burden of demonstrating that the event is a Force Majeure. The Secretary shall make the final decision of whether an event is a Force Majeure and immediately communicate his or her decision to Applicant.

46. If a delay is attributable to a Force Majeure, the parties shall extend, in writing, the time period for performance under this Agreement by the amount of time that is attributable to the event constituting the Force Majeure.

XVII. RESERVATION OF RIGHTS

47. WVDEP and Applicant reserve all rights and defenses they may have pursuant to any available authority unless expressly waived herein.

48. Nothing herein is intended to release, discharge, or in any way affect any claims, causes of actions, or demands in law or equity which the parties may have against any person, firm, partnership, or corporation not a party to this Agreement for any liability it may have arising out of, or relating in any way to, the generation, storage, treatment, handling, transportation, release, or disposal of any materials, hazardous substances, hazardous waste, contaminants, or pollutants at, to, or from the Site. The parties to this Agreement expressly reserve all rights, claims, demands, and causes of action they have against any and all other persons and entities who are not parties to this Agreement, and as to each other for matters not covered hereby.

49. Applicant reserves the right to seek contribution, indemnity, or any other available remedy against any persons found to be responsible or liable for contributions, indemnity, or otherwise for any amounts which have been or will be expended by Applicant in connection with the Site.

50. WVDEP reserves the right to bring an action, including an administrative action, against Applicant for any violation of statutes or rules except for the specific violations or releases that are being remediated in the work plan.

51. WVDEP reserves the right to withdraw its approval of the work plan at any time during Applicant's implementation of a work plan if:

    (a) WVDEP determines that Applicant has failed to substantially comply with the terms and conditions of this Agreement or the work plan;

    (b) Applicant declines to implement the work plan after being notified of its approval by the WVDEP; or

    (c) WVDEP determines that any contaminant or regulated substance on the Site has become an imminent or substantial threat to human health or the environment.

Upon WVDEP's withdrawal of its approval, WVDEP may choose to terminate this Agreement. WVDEP reserves the right to bring any action to enforce any statute or regulation under Chapter 22 of the West Virginia Code, including an action regarding the violations or releases that were the subject of this Agreement.

52. WVDEP acknowledges that, pursuant to W. Va. Code § 22-22-18, Applicant, upon receipt of the Certificate of Completion, is not liable for claims for contribution concerning matters addressed in this Agreement or any related work plan.

XVIII. ADMINISTRATIVE COSTS

53. Applicant agrees to reimburse WVDEP for all of its reasonable administrative costs associated with implementation of this Agreement at the rate of 3.5 times the hourly rate of the primary employee assigned to the Site plus the actual and direct expenses of the employee. Within sixty (60) days of the approval of the initial work plan, WVDEP shall send Applicant an itemized list of estimated in-house costs that WVDEP expects to incur under this Agreement. Applicant agrees that a reasonable estimate of WVDEP contractor costs will be provided as described in the following paragraph. Itemization will be in standard WVDEP format. The estimated costs may include the preparation of the itemized list of administrative costs. Applicant has the right, upon request, to examine any documentation in WVDEP's possession used to develop the itemized list of costs. Applicant shall make the request in writing, which WVDEP must receive within two (2) weeks from the date Applicant receives the estimate of costs.

54. WVDEP agrees to allow Applicant to review and comment on the scope of work and associated cost estimates for outside contractors prior to WVDEP's authorization of the contractor to proceed with the associated work. WVDEP will strive where possible to use cost effective and qualified outside contractors. "Outside contractors" are defined as individuals, partnerships, or corporations paid by WVDEP to assist in the oversight of the activities performed under this Agreement (e.g., risk assessment), but shall not include WVDEP employees. WVDEP shall submit to Applicant cost estimates and invoices from outside contractors within two (2) weeks from the date WVDEP receives the cost estimate or invoice. Applicant shall raise any and all objections regarding cost estimates or invoiced work to WVDEP within two (2) weeks from the date Applicant receives the forwarded cost estimates/invoices from WVDEP or within two (2) weeks of the receipt by Applicant of any back-up documentation of the said cost estimates/invoices that are contained in WVDEP files and requested by Applicant, whichever shall last occur.

55. Applicant shall pay these costs in accordance with the following provisions. WVDEP shall periodically send an accounting of contractor, subcontractor, and laboratory costs to Applicant. The accounting shall itemize all costs incurred by WVDEP for the previous calendar quarter. Applicant shall pay said amount within thirty (30) days of receipt of the accounting. WVDEP shall also periodically send an accounting of WVDEP's primary employee time charged to this Site to Applicant. Applicant shall pay said amount within thirty (30) days of receipt of the accounting.

56. Payment shall be made online at: https://dep.wv.gov/payDEP/Pages/default.aspx. or checks shall be made payable to the West Virginia Department of Environmental Protection for deposit into the Voluntary Remediation Administrative Fund and mailed along with a transmittal letter stating the Site name and address to:

    West Virginia Department of Environmental Protection
    Office of Environmental Remediation
    P.O. Box 681
    Charleston, WV 25323

XIX. NOTICE OF BANKRUPTCY

57. Applicant shall notify WVDEP of its intention to file a bankruptcy petition as soon as Applicant has knowledge of its intention to file bankruptcy or no later than seven (7) days prior to the actual filing of a voluntary or involuntary bankruptcy petition.

XX. INDEMNIFICATION

58. Applicant agrees to indemnify and hold harmless the State of West Virginia, its agencies, departments, agents, and employees from and all claims or causes of action arising from, or on account of, acts or omissions of Applicant, its officers, employees, receivers, trustees, agents, or assigns, in carrying out the activities pursuant to this Agreement.

XXI. EFFECTIVE DATE AND SUBSEQUENT MODIFICATION

59. The effective date of this Agreement is the date on which Applicant receives the notice that the Secretary has signed it.

60. The parties may amend this Agreement by mutual agreement. Amendments shall be in writing and effective when Applicant receives notice that the Secretary has signed it.

61. If the Secretary determines that there is an imminent threat to the public, he or she may unilaterally modify or amend this Agreement.

XXII. EXTENSIONS OF TIME PERIODS

62. Any written response is deemed timely performed if hand delivered, delivered by electronic mail, or postmarked by the last day of any time period prescribed herein. Whenever a party has the right or is required to do some act or make some response within a prescribed period after the service of a notice or other paper and the notice or paper is served by U.S. mail, three (3) days shall be added to the prescribed period.

63. Whenever any party is called upon to respond or otherwise act in a certain number of days, and if the final day occurs on a Saturday, Sunday, or legal holiday (whether State or

national), the time limitation shall automatically extend to the next business day after the Saturday, Sunday, or legal holiday.

64. Any time periods specified in this Agreement may be extended only by agreement of the parties in writing.

XXIII. TERMINATION AND SATISFACTION

65. Upon completion of the Final Report prepared by the LRS, Applicant may seek a Certificate of Completion from the Secretary. Upon receipt of a request for a Certificate of Completion, the Secretary shall determine whether the Site meets applicable standards for those areas of the Site and for those contaminants identified in this Agreement and whether Applicant has complied with this Agreement and any approved work plans for the Site. Upon making this determination, the Secretary shall issue a Certificate of Completion which conforms substantially to Appendix 60-3C of the Rule. Where this Agreement requires a Land Use Covenant, the Certificate of Completion shall not become effective until it is properly filed with the Clerk of the County Commission of the county in which the property is located.

    If the Secretary determines that the Certificate of Completion should not be issued because Applicant has not completed the work required by this Agreement and any approved work plans or because the Site does not meet applicable standards, the Secretary shall initiate the procedures relating to denial of a Certificate of Completion as provided in the Rule.

66. The provisions of this Agreement are satisfied, and this Agreement shall terminate when the Secretary issues the Certificate of Completion.

67. Nothing in this Agreement shall restrict the State of West Virginia from seeking other appropriate relief to protect human health or the environment from pollution or contamination at or from the Site not remediated in accordance with this Agreement.

68. Applicant may, in its sole discretion, terminate this Agreement by providing to the Secretary fifteen (15) days advance written notice of termination. Only those costs incurred or obligated by the Secretary before the notice of termination is received are recoverable if the Agreement is terminated. If Applicant terminates this Agreement, then Applicant shall pay WVDEP's costs associated with the voluntary remediation within thirty-one (31) days after receiving notice that the costs are due and owing.

XXIV. LAND USE COVENANTS

69. The parties agree that activity and use limitations may be required at the Site to achieve one or more of the applicable remediation standards. If activity and use limitations are required, Applicant agrees to prepare and record a Land Use Covenant or secure other institutional controls as necessary (e.g., government ordinances) once the necessary restrictions are determined.

XXV. REOPENER

70. Upon agreement of the parties or upon occurrence of one or more conditions of W. Va. Code § 22-22-15, this Agreement may be reopened in accordance with the provisions of W. Va. Code § 22-22-15.

XXVI. PRECEDENCE OF AGREEMENT

71. In the event that conflict arises among the terms and conditions of this Agreement, the Statement of Work, or the approved work plan, this Agreement shall govern, and the terms and conditions hereunder shall determine the parties' rights and responsibilities.

XXVII. GOVERNING LAW

72. This Agreement shall be governed by the laws of the State of West Virginia.

[SIGNATURES APPEAR ON THE FOLLOWING PAGE]

Applicant

CAMC Greenbrier Valley Medical Center

Printed Name: Steven Arthur

Title: Corporate Director Facilities Maintenance

Signature Date

West Virginia Department of Environmental Protection

Printed Name: Robert Rice

Title: Director, Division of Land Restoration

Signature Date

APPENDIX B

WVDEP DEMINIMIS STANDARDS

Data contained on this sheet shall not be disclosed without prior approval from KEMRON Environmental Services, Inc. (Proprietary)

60CSR9 (effective 12/2/2021)

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
Acetaldehyde	75-07-0	1.2E+01	c	3.7E+02	nc	2.6E+00	c
Acetochlor	34256-82-1	1.3E+03	nc	1.6E+04	nc	3.5E+02	nc
Acetone	67-64-1	6.1E+04	nc	1.1E+05	Csat	1.4E+04	nc
Acetonitrile	75-05-8	8.7E+02	nc	3.7E+03	nc	1.3E+02	nc
Acetophenone	98-86-2	2.5E+03	Csat	2.5E+03	Csat	1.9E+03	nc
Acrolein	107-02-8	1.5E-01	nc	6.5E-01	nc	4.2E-02	nc
Acrylamide	79-06-1	2.4E-01	c	4.6E+01	c	5.0E-02	c
Acrylonitrile	107-13-1	2.7E-01	c	1.2E+01	c	5.2E-02	c
Alachlor	15972-60-8	9.7E+00	c	4.1E+02	c	2.0E+00	gws
Alar	1596-84-5	3.0E+01	c	1.3E+03	c	4.3E+00	c
Aldicarb	116-06-3	6.3E+01	nc	8.2E+02	nc	3.0E+00	gws
Aldicarb sulfone	1646-88-4	6.3E+01	nc	8.2E+02	nc	2.0E+00	gws
Aldrin	309-00-2	3.9E-02	c	1.8E+00	c	9.2E-04	c
Aluminum	7429-90-5	7.7E+04	nc	1.0E+06	max	2.0E+04	nc
Aniline	62-53-3	9.5E+01	c	4.0E+03	c	1.3E+01	c
Antimony and compounds	7440-36-0	3.1E+01	nc	4.7E+02	nc	6.0E+00	gws
Arsenic	7440-38-2	6.8E-01	c	3.0E+01	c	1.0E+01	gws
Assure	76578-14-8	5.7E+02	nc	7.4E+03	nc	1.2E+02	nc
Atrazine	1912-24-9	2.4E+00	c	1.0E+02	c	3.0E+00	gws
Azobenzene	103-33-3	5.6E+00	c	2.6E+02	c	1.2E-01	c
Barium and compounds	7440-39-3	1.5E+04	nc	2.2E+05	nc	2.0E+03	gws
Baygon	114-26-1	2.5E+02	nc	3.3E+03	nc	7.8E+01	nc
Baythroid	68359-37-5	1.6E+03	nc	2.1E+04	nc	1.2E+02	nc
Bentazon	25057-89-0	1.9E+03	nc	2.5E+04	nc	5.7E+02	nc
Benzaldehyde	100-52-7	1.7E+02	c	1.2E+03	Csat	1.9E+01	c
Benzene	71-43-2	1.2E+00	c	5.4E+01	c	5.0E+00	gws
Benzidine	92-87-5	5.3E-04	c	1.0E-01	c	1.1E-04	c
Benzoic acid	65-85-0	2.5E+05	nc	1.0E+06	max	7.5E+04	nc
Benzyl alcohol	100-51-6	6.3E+03	nc	8.2E+04	nc	2.0E+03	nc
Benzyl chloride	100-44-7	1.1E+00	c	5.1E+01	c	8.9E-02	c
Beryllium and compounds	7440-41-7	1.6E+02	nc	2.3E+03	nc	4.0E+00	gws
1,1'-Biphenyl	92-52-4	5.1E+01	nc	2.1E+02	nc	8.3E-01	nc
Bis(2-chloroethyl)ether	111-44-4	2.4E-01	c	1.1E+01	c	1.4E-02	c
Bis(2-chloroisopropyl)ether	108-60-1	5.1E+00	c	2.3E+02	c	3.6E-01	c
Bis(chloromethyl)ether	542-88-1	8.9E-05	c	3.9E-03	c	7.2E-05	c
Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	3.9E+01	c	1.6E+03	c	6.0E+00	gws
Bromodichloromethane	75-27-4	3.1E-01	c	1.4E+01	c	8.0E+01	gws
Bromoform (tribromomethane)	75-25-2	2.0E+01	c	9.1E+02	c	8.0E+01	gws
Bromomethane	74-83-9	7.3E+00	nc	3.2E+01	nc	7.5E+00	nc
Bromophos	2104-96-3	3.4E+02	nc	3.8E+03	nc	1.8E+01	nc
1,3-Butadiene	106-99-0	8.1E-02	c	3.6E+00	c	7.1E-02	c
1-Butanol	71-36-3	4.7E+03	nc	7.6E+03	Csat	5.3E+02	nc
Butylate	2008-41-5	3.2E+03	nc	3.3E+04	nc	2.1E+02	nc
n-Butylbenzene	104-51-8	1.1E+02	Csat	1.1E+02	Csat	1.0E+03	nc
Butyl benzyl phthalate	85-68-7	2.9E+02	c	1.2E+04	c	1.6E+01	c
Cadmium and compounds	7440-43-9	3.7E+01	nc	5.3E+02	nc	5.0E+00	gws
Caprolactam	105-60-2	3.1E+04	nc	4.0E+05	nc	9.9E+03	nc
Carbaryl	63-25-2	6.3E+03	nc	8.2E+04	nc	1.8E+03	nc
Carbon disulfide	75-15-0	7.4E+02	Csat	7.4E+02	Csat	8.1E+02	nc
Carbon tetrachloride	56-23-5	7.0E-01	c	3.1E+01	c	5.0E+00	gws
Carbosulfan	55285-14-8	6.3E+02	nc	8.2E+03	nc	5.1E+01	nc
Chloranil	118-75-2	1.4E+00	c	5.7E+01	c	1.8E-01	c
Chlordane (Technical Mixture)	12789-03-6	1.9E+00	c	8.9E+01	c	2.0E+00	gws
Chloroacetic acid	79-11-8	1.3E+02	nc	1.6E+03	nc	6.0E+01	gws
4-Chloroaniline	106-47-8	2.7E+00	c	1.1E+02	c	3.7E-01	c

60CSR9 (effective 12/2/2021)

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
Chlorobenzene	108-90-7	2.9E+02	nc	7.6E+02	Csat	1.0E+02	gws
Chlorobenzilate	510-15-6	4.9E+00	c	2.1E+02	c	3.1E-01	c
p-Chlorobenzoic acid	74-11-3	1.9E+03	nc	2.5E+04	nc	5.1E+02	nc
2-Chloro-1,3-butadiene	126-99-8	1.1E-02	c	4.7E-01	c	1.9E-02	c
1-Chlorobutane	109-69-3	2.5E+02	nc	7.3E+02	Csat	2.0E+02	nc
Chloroethane	75-00-3	2.1E+03	Csat	2.1E+03	Csat	2.1E+04	nc
Chloroform	67-66-3	3.4E-01	c	1.5E+01	c	8.0E+01	gws
Chloromethane	74-87-3	1.2E+02	nc	5.0E+02	nc	1.9E+02	nc
4-Chloro-2-methylaniline	95-69-2	5.4E+00	c	2.3E+02	c	7.0E-01	c
beta-Chloronaphthalene	91-58-7	5.0E+03	nc	5.0E+04	nc	3.3E+02	nc
o-Chloronitrobenzene	88-73-3	1.8E+00	c	7.7E+01	c	2.4E-01	c
p-Chloronitrobenzene	100-00-5	9.0E+00	c	3.8E+02	c	1.2E+00	c
2-Chlorophenol	95-57-8	3.4E+02	nc	3.9E+03	nc	2.7E+01	nc
o-Chlorotoluene	95-49-8	4.5E+02	nc	9.1E+02	Csat	9.0E+01	nc
Chlorpyrifos-methyl	5598-13-0	6.3E+02	nc	8.2E+03	nc	1.2E+02	nc
Chromium III	16065-83-1	1.2E+05	nc	1.0E+06	max	2.2E+04	nc
Chromium VI	18540-29-9	3.0E-01	c	6.3E+01	c	3.5E-02	c
Cobalt	7440-48-4	2.3E+01	nc	3.5E+02	nc	6.0E+00	nc
Copper and compounds	7440-50-8	3.1E+03	nc	4.7E+04	nc	1.3E+03	gws
Crotonaldehyde	123-73-9	8.2E-02	c	3.6E+00	c	8.2E-03	c
Cyanazine	21725-46-2	6.5E-01	c	2.7E+01	c	8.8E-02	c
Cyanide and compounds	74-90-8	2.3E+01	nc	1.5E+02	nc	2.0E+02	gws
Cyanogen	460-19-5	7.8E+01	nc	1.2E+03	nc	2.0E+01	nc
Cyanogen bromide	506-68-3	7.0E+03	nc	1.1E+05	nc	1.8E+03	nc
Cyclohexane	110-82-7	1.2E+02	Csat	1.2E+02	Csat	1.3E+04	nc
Cyclohexanone	108-94-1	5.1E+03	Csat	5.1E+03	Csat	1.4E+03	nc
Cyhalothrin/Karate	68085-85-8	6.3E+01	nc	8.2E+02	nc	2.0E+01	nc
Cypermethrin	52315-07-8	3.8E+03	nc	4.9E+04	nc	1.2E+03	nc
Dacthal	1861-32-1	6.3E+02	nc	8.2E+03	nc	1.2E+02	nc
Dalapon	75-99-0	1.9E+03	nc	2.5E+04	nc	2.0E+02	gws
DDD	72-54-8	1.9E+00	nc	2.5E+01	nc	3.2E-02	c
DDE	72-55-9	2.0E+00	c	9.3E+01	c	4.6E-02	c
DDT	50-29-3	1.9E+00	c	8.5E+01	c	2.3E-01	c
Diazinon	333-41-5	4.4E+01	nc	5.7E+02	nc	1.0E+01	nc
Dibenzofuran	132-64-9	7.8E+01	nc	1.2E+03	nc	7.9E+00	nc
1,4-Dibromobenzene	106-37-6	4.1E+02	nc	2.8E+03	nc	4.7E+01	nc
Dibromochloromethane	124-48-1	8.3E+00	c	3.9E+02	c	8.0E+01	gws
1,2-Dibromo-3-chloropropane	96-12-8	5.7E-03	c	6.9E-01	c	2.0E-01	gws
1,2-Dibromoethane	106-93-4	3.9E-02	c	1.7E+00	c	5.0E-02	gws
Dibutyl phthalate	84-74-2	6.3E+03	nc	8.2E+04	nc	9.0E+02	nc
Dicamba	1918-00-9	1.9E+03	nc	2.5E+04	nc	5.7E+02	nc
1,2-Dichlorobenzene	95-50-1	3.8E+02	Csat	3.8E+02	Csat	6.0E+02	gws
1,4-Dichlorobenzene	106-46-7	2.8E+00	c	1.2E+02	c	7.5E+01	gws
3,3'-Dichlorobenzidine	91-94-1	1.2E+00	c	5.1E+01	c	1.3E-01	c
1,4-Dichloro-2-butene	764-41-0	2.3E-03	c	1.0E-01	c	1.3E-03	c
Dichlorodifluoromethane	75-71-8	9.4E+01	nc	4.0E+02	nc	2.0E+02	nc
1,1-Dichloroethane	75-34-3	3.8E+00	c	1.7E+02	c	2.8E+00	c
1,2-Dichloroethane	107-06-2	5.0E-01	c	2.2E+01	c	5.0E+00	gws
1,1-Dichloroethylene	75-35-4	2.4E+02	nc	1.1E+03	nc	7.0E+00	gws
1,2-Dichloroethylene (cis)	156-59-2	1.7E+01	nc	8.0E+01	nc	7.0E+01	gws
1,2-Dichloroethylene (trans)	156-60-5	7.5E+01	nc	3.2E+02	nc	1.0E+02	gws
2,4-Dichlorophenol	120-83-2	1.9E+02	nc	2.5E+03	nc	4.6E+01	nc
4-(2,4-Dichlorophenoxy)butyric Acid (2,4-DB)	94-82-6	1.9E+03	nc	2.5E+04	nc	4.5E+02	nc
2,4-Dichlorophenoxyacetic Acid (2,4-D)	94-75-7	7.0E+02	nc	9.6E+03	nc	7.0E+01	gws
1,2-Dichloropropane	78-87-5	2.7E+00	c	7.1E+01	nc	5.0E+00	gws

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CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
1,3-Dichloropropene	542-75-6	1.9E+00	c	8.6E+01	c	4.7E-01	c
2,3-Dichloropropanol	616-23-9	1.9E+02	nc	2.5E+03	nc	5.9E+01	nc
Dichlorvos	62-73-7	1.9E+00	c	7.9E+01	c	2.6E-01	c
Dicyclopentadiene	77-73-6	1.4E+00	nc	5.8E+00	nc	6.3E-01	nc
Dieldrin	60-57-1	4.2E-02	c	2.0E+00	c	7.2E-04	c
Diethylene glycol, monobutyl ether	112-34-5	1.9E+03	nc	2.4E+04	nc	6.0E+02	nc
Diethylene glycol, monoethyl ether	111-90-0	3.8E+03	nc	4.8E+04	nc	1.2E+03	nc
Di(2-ethylhexyl)adipate	103-23-1	4.5E+02	c	1.9E+04	c	4.0E+02	gws
Diethyl phthalate	84-66-2	5.1E+04	nc	6.6E+05	nc	1.5E+04	nc
Diethylstilbestrol	56-53-1	1.6E-03	c	6.6E-02	c	5.1E-05	c
Difenzoquat (Avenge)	43222-48-6	5.2E+03	nc	6.8E+04	nc	1.7E+03	nc
1,1-Difluoroethane	75-37-6	1.4E+03	Csat	1.4E+03	Csat	8.3E+04	nc
Diisopropyl methylphosphonate	1445-75-6	5.3E+02	Csat	5.3E+02	Csat	1.6E+03	nc
3,3'-Dimethoxybenzidine	119-90-4	3.4E-01	c	1.4E+01	c	4.7E-02	c
N-N-Dimethylaniline	121-69-7	2.6E+01	c	7.2E+02	nc	2.5E+00	c
2,4-Dimethylaniline	95-68-1	2.7E+00	c	1.1E+02	c	3.7E-01	c
2,4-Dimethylaniline hydrochloride	21436-96-4	9.4E-01	c	4.0E+01	c	1.3E-01	c
3,3'-Dimethylbenzidine	119-93-7	4.9E-02	c	2.1E+00	c	6.5E-03	c
2,4-Dimethylphenol	105-67-9	1.3E+03	nc	1.6E+04	nc	3.6E+02	nc
2,6-Dimethylphenol	576-26-1	3.8E+01	nc	4.9E+02	nc	1.1E+01	nc
3,4-Dimethylphenol	95-65-8	6.3E+01	nc	8.2E+02	nc	1.8E+01	nc
4,6-Dinitro-o-cyclohexyl phenol	131-89-5	1.3E+02	nc	1.6E+03	nc	2.3E+01	nc
1,2-Dinitrobenzene	528-29-0	6.3E+00	nc	8.2E+01	nc	1.9E+00	nc
1,3-Dinitrobenzene	99-65-0	6.3E+00	nc	8.2E+01	nc	2.0E+00	nc
1,4-Dinitrobenzene	100-25-4	6.3E+00	nc	8.2E+01	nc	2.0E+00	nc
2,4-Dinitrophenol	51-28-5	1.3E+02	nc	1.6E+03	nc	3.9E+01	nc
Dinitrotoluene (Technical Grade)	25321-14-6	1.2E+00	c	5.1E+01	c	1.0E-01	c
2,4-Dinitrotoluene	121-14-2	1.7E+00	c	7.4E+01	c	2.4E-01	c
2,6-Dinitrotoluene	606-20-2	3.6E-01	c	1.5E+01	c	4.9E-02	c
Dinoseb	88-85-7	6.3E+01	nc	8.2E+02	nc	7.0E+00	gws
1,4-Dioxane	123-91-1	5.4E+00	c	2.5E+02	c	4.6E-01	c
Diphenylamine	122-39-4	6.3E+03	nc	8.2E+04	nc	1.3E+03	nc
1,2-Diphenylhydrazine	122-66-7	6.8E-01	c	2.9E+01	c	7.8E-02	c
Diquat	2764-72-9	1.4E+02	nc	1.8E+03	nc	2.0E+01	gws
Disulfoton	298-04-4	2.5E+00	nc	3.3E+01	nc	5.0E-01	nc
1,4-Dithiane	505-29-3	5.4E+02	nc	4.6E+03	nc	5.3E+01	nc
Diuron	330-54-1	1.3E+02	nc	1.6E+03	nc	3.6E+01	nc
Endosulfan	115-29-7	4.5E+02	nc	6.0E+03	nc	3.1E+01	nc
Endothall	145-73-3	1.3E+03	nc	1.6E+04	nc	1.0E+02	gws
Endrin	72-20-8	1.9E+01	nc	2.5E+02	nc	2.0E+00	gws
Epichlorohydrin	106-89-8	2.0E+01	nc	8.8E+01	nc	2.0E+00	nc
Ethion	563-12-2	3.2E+01	nc	4.1E+02	nc	4.3E+00	nc
2-Ethoxyethanol	110-80-5	5.3E+03	nc	4.9E+04	nc	3.4E+02	nc
Ethyl acetate	141-78-6	6.7E+02	nc	2.8E+03	nc	1.4E+02	nc
Ethylbenzene	100-41-4	6.2E+00	c	2.7E+02	c	7.0E+02	gws
Ethylene diamine	107-15-3	6.3E+03	nc	7.6E+04	nc	4.9E+02	nc
Ethylene glycol	107-21-1	1.3E+05	nc	1.0E+06	max	4.0E+04	nc
Ethylene glycol, monobutyl ether	111-76-2	6.3E+03	nc	8.2E+04	nc	2.0E+03	nc
Ethylene thiourea (ETU)	96-45-7	5.1E+00	nc	6.6E+01	nc	1.6E+00	nc
Ethyl ether	60-29-7	2.1E+03	nc	9.9E+03	nc	1.1E+03	nc
Ethyl methacrylate	97-63-2	1.1E+03	Csat	1.1E+03	Csat	6.3E+02	nc
Fenamiphos	22224-92-6	1.6E+01	nc	2.1E+02	nc	4.4E+00	nc
Fluometuron	2164-17-2	8.2E+02	nc	1.1E+04	nc	2.4E+02	nc
Fluorine (Soluble Fluoride)	7782-41-4	4.7E+03	nc	7.0E+04	nc	4.0E+03	gws
Fomesafen	72178-02-0	1.6E+02	nc	2.1E+03	nc	4.8E+01	nc

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CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
Fonofos	944-22-9	1.3E+02	nc	1.6E+03	nc	2.4E+01	nc
Formaldehyde	50-00-0	1.8E+01	c	7.9E+02	c	4.3E-01	c
Formic Acid	64-18-6	3.1E+01	nc	1.3E+02	nc	6.3E-01	nc
Furan	110-00-9	9.1E+00	nc	4.2E+01	nc	5.3E+00	nc
Furazolidone	67-45-8	1.4E-01	c	6.0E+00	c	2.0E-02	c
Furfural	98-01-1	2.2E+02	nc	2.7E+03	nc	3.8E+01	nc
Glycidaldehyde	765-34-4	2.4E+01	nc	2.1E+02	nc	1.7E+00	nc
Glyphosate	1071-83-6	6.3E+03	nc	8.2E+04	nc	7.0E+02	gws
Heptachlor	76-44-8	1.4E-01	c	6.3E+00	c	4.0E-01	gws
Heptachlor epoxide	1024-57-3	7.1E-02	c	3.3E+00	c	2.0E-01	gws
Hexabromobenzene	87-82-1	1.5E+02	nc	2.0E+03	nc	1.1E+01	nc
Hexachlorobenzene	118-74-1	2.2E-01	c	1.0E+01	c	1.0E+00	gws
Hexachlorobutadiene	87-68-3	1.3E+00	c	1.7E+01	Csat	1.4E-01	c
HCH (alpha)	319-84-6	8.6E-02	c	3.6E+00	c	7.2E-03	c
HCH (beta)	319-85-7	3.0E-01	c	1.3E+01	c	2.5E-02	c
HCH (gamma) Lindane	58-89-9	5.7E-01	c	2.5E+01	c	2.0E-01	gws
HCH-technical	608-73-1	3.0E-01	c	1.3E+01	c	2.5E-02	c
Hexachlorocyclopentadiene	77-47-4	1.9E+00	nc	8.0E+00	nc	5.0E+01	gws
Hexachlorodibenzo-p-dioxin mixture (HxCDD)	Various	1.0E-04	c	4.7E-03	c	1.3E-05	c
Hexachloroethane	67-72-1	2.0E+00	c	8.6E+01	c	3.3E-01	c
Hexachlorophene	70-30-4	1.9E+01	nc	2.5E+02	nc	6.0E+00	nc
1,6-Hexamethylene diisocyanate	822-06-0	3.4E+00	nc	1.4E+01	nc	2.1E-02	nc
n-Hexane	110-54-3	1.4E+02	Csat	1.4E+02	Csat	1.5E+03	nc
Hexazinone	51235-04-2	2.1E+03	nc	2.7E+04	nc	6.4E+02	nc
HMX	2691-41-0	3.9E+03	nc	5.7E+04	nc	1.0E+03	nc
Hydrazine	302-01-2	3.4E-02	c	1.5E+00	c	1.1E-03	c
Hydrogen sulfide	7783-06-4	1.0E+06	max	1.0E+06	max	4.2E+00	nc
p-Hydroquinone	123-31-9	9.0E+00	c	3.8E+02	c	1.3E+00	c
Iron	7439-89-6	5.5E+04	nc	8.2E+05	nc	1.4E+04	nc
Isobutanol	78-83-1	1.0E+04	Csat	1.0E+04	Csat	1.7E+03	nc
Isophorone	78-59-1	5.7E+02	c	2.4E+04	c	7.8E+01	c
Isopropalin	33820-53-0	1.1E+03	nc	1.5E+04	nc	2.9E+01	nc
Isopropylbenzene (Cumene)	98-82-8	2.7E+02	Csat	2.7E+02	Csat	4.5E+02	nc
Isopropyl methyl phosphonic acid	1832-54-8	6.3E+03	nc	8.2E+04	nc	2.0E+03	nc
Lead*	7439-92-1	4.0E+02	nc	8.0E+02	nc	1.5E+01	gws
Lead (tetraethyl)	78-00-2	7.8E-03	nc	1.2E-01	nc	1.3E-03	nc
Lithium	7439-93-2	1.6E+02	nc	2.3E+03	nc	4.0E+01	nc
Malathion	121-75-5	1.3E+03	nc	1.6E+04	nc	3.9E+02	nc
Maleic anhydride	108-31-6	6.3E+03	nc	8.0E+04	nc	1.9E+03	nc
Manganese (non-food)	7439-96-5	1.8E+03	nc	2.6E+04	nc	4.3E+02	nc
Mephosfolan	950-10-7	5.7E+00	nc	7.4E+01	nc	1.8E+00	nc
Mepiquat	24307-26-4	1.9E+03	nc	2.5E+04	nc	6.0E+02	nc
Mercury (elemental and inorganic)	7439-97-6	3.1E+00	Csat	3.1E+00	Csat	2.0E+00	gws
Mercury (methyl)	22967-92-6	7.8E+00	nc	1.2E+02	nc	2.0E+00	nc
Methacrylonitrile	126-98-7	7.6E+00	nc	1.0E+02	nc	1.9E+00	nc
Methanol	67-56-1	1.1E+05	Csat	1.1E+05	Csat	2.0E+04	nc
Methidathion	950-37-8	9.5E+01	nc	1.2E+03	nc	2.9E+01	nc
Methoxychlor	72-43-5	3.2E+02	nc	4.1E+03	nc	4.0E+01	gws
Methyl acetate	79-20-9	2.3E+04	nc	2.9E+04	Csat	5.3E+03	nc
Methyl acrylate	96-33-3	1.6E+02	nc	6.6E+02	nc	4.2E+01	nc
Methyl Tertiary Butyl Ether (MTBE)	1634-04-4	5.0E+01	c	2.2E+03	c	1.4E+01	c
2-Methylaniline (o-toluidine)	95-53-4	3.4E+01	c	1.4E+03	c	4.7E+00	c
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	94-74-6	3.2E+01	nc	4.1E+02	nc	7.5E+00	nc
4-(2-Methyl-4-chlorophenoxy) butyric acid (MCPB)	94-81-5	2.8E+02	nc	3.6E+03	nc	6.5E+01	nc
2-(2-Methyl-4-chlorophenoxy) propionic acid (MCPP)	93-65-2	6.3E+01	nc	8.2E+02	nc	1.6E+01	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
4,4'-Methylenebisbenzeneamine	101-77-9	3.4E-01	c	1.4E+01	c	4.7E-02	c
4,4'-Methylene bis(2-chloroaniline)	101-14-4	1.2E+00	c	2.3E+02	c	1.6E-01	c
4,4'-Methylene bis(N,N'-dimethyl)aniline	101-61-1	1.2E+01	c	5.0E+02	c	7.4E-01	c
Methylene bromide (Dibromomethane)	74-95-3	2.5E+01	nc	1.1E+02	nc	8.0E+00	nc
Methylene chloride (Dichloromethane)	75-09-2	5.8E+01	c	3.3E+03	nc	5.0E+00	gws
Methylenediphenyl diisocyanate	101-68-8	8.5E+05	nc	1.0E+06	max		
Methyl ethyl ketone	78-93-3	2.8E+04	nc	2.8E+04	Csat	5.6E+03	nc
Methyl isobutyl ketone	108-10-1	3.4E+03	Csat	3.4E+03	Csat	1.2E+03	nc
Methyl methacrylate	80-62-6	2.4E+03	Csat	2.4E+03	Csat	1.4E+03	nc
2-Methyl-5-nitroaniline	99-55-8	6.0E+01	c	2.6E+03	c	8.2E+00	c
Methyl parathion	298-00-0	1.6E+01	nc	2.1E+02	nc	4.5E+00	nc
2-Methylphenol (o-Cresol)	95-48-7	3.2E+03	nc	4.1E+04	nc	9.3E+02	nc
3-Methylphenol (m-Cresol)	108-39-4	3.2E+03	nc	4.1E+04	nc	9.3E+02	nc
4-Methylphenol (p-Cresol)	106-44-5	6.3E+03	nc	8.2E+04	nc	1.9E+03	nc
Methyl styrene (mixture)	25013-15-4	3.3E+02	nc	3.9E+02	Csat	2.3E+01	nc
Methyl styrene (alpha)	98-83-9	5.0E+02	Csat	5.0E+02	Csat	7.8E+02	nc
Metolachlor (Dual)	51218-45-2	9.5E+03	nc	1.2E+05	nc	2.7E+03	nc
Metribuzin	21087-64-9	1.6E+03	nc	2.1E+04	nc	4.9E+02	nc
Mirex	2385-85-5	3.6E-02	c	1.7E+00	c	8.8E-04	c
Molybdenum	7439-98-7	3.9E+02	nc	5.8E+03	nc	1.0E+02	nc
Monochloramine	10599-90-3	7.8E+03	nc	1.2E+05	nc	4.0E+03	gws
Naled	300-76-5	1.2E+02	nc	1.0E+03	nc	1.1E+01	nc
Nickel and compounds	7440-02-0	1.5E+03	nc	2.2E+04	nc	3.9E+02	nc
Nitrate	14797-55-8	1.3E+05	nc	1.0E+06	max	1.0E+04	gws
Nitrite	14797-65-0	7.8E+03	nc	1.2E+05	nc	1.0E+03	gws
2-Nitroaniline	88-74-4	6.3E+02	nc	8.0E+03	nc	1.9E+02	nc
Nitrobenzene	98-95-3	5.5E+00	c	2.4E+02	c	1.4E-01	c
Nitrofurantoin	67-20-9	4.4E+03	nc	5.7E+04	nc	1.4E+03	nc
Nitrofurazone	59-87-0	4.2E-01	c	1.8E+01	c	6.0E-02	c
Nitroglycerin	55-63-0	6.3E+00	nc	8.2E+01	nc	2.0E+00	nc
2-Nitropropane	79-46-9	1.5E-02	c	6.4E-01	c	2.1E-03	c
N-Nitrosodi-n-butylamine	924-16-3	1.0E-01	c	4.7E+00	c	2.7E-03	c
N-Nitrosodiethanolamine	1116-54-7	1.9E-01	c	8.2E+00	c	2.8E-02	c
N-Nitrosodiethylamine	55-18-5	8.1E-04	c	1.5E-01	c	1.7E-04	c
N-Nitrosodimethylamine	62-75-9	2.0E-03	c	3.5E-01	c	1.1E-04	c
N-Nitrosodiphenylamine	86-30-6	1.1E+02	c	4.7E+03	c	1.2E+01	c
N-Nitroso di-n-propylamine	621-64-7	7.8E-02	c	3.3E+00	c	1.1E-02	c
N-Nitroso-N-methylethylamine	10595-95-6	2.0E-02	c	9.4E-01	c	7.1E-04	c
N-Nitrosopyrrolidine	930-55-2	2.6E-01	c	1.1E+01	c	3.7E-02	c
m-Nitrotoluene	99-08-1	6.3E+00	nc	8.2E+01	nc	1.7E+00	nc
o-Nitrotoluene	88-72-2	3.2E+00	c	1.5E+02	c	3.1E-01	c
p-Nitrotoluene	99-99-0	3.4E+01	c	1.4E+03	c	4.3E+00	c
NuStar (Flusilazole)	85509-19-9	1.3E+02	nc	1.6E+03	nc	3.1E+01	nc
Oryzalin	19044-88-3	7.0E+01	c	2.9E+03	c	7.9E+00	c
Oxadiazon	19666-30-9	3.2E+02	nc	4.1E+03	nc	4.7E+01	nc
Oxamyl	23135-22-0	1.6E+03	nc	2.1E+04	nc	2.0E+02	gws
Oxyfluorfen	42874-03-3	7.4E+00	c	3.1E+02	c	5.4E-01	c
Paraquat dichloride	1910-42-5	2.8E+02	nc	3.7E+03	nc	9.0E+01	nc
Parathion	56-38-2	3.8E+02	nc	4.9E+03	nc	8.6E+01	nc
Pentachlorobenzene	608-93-5	5.0E+01	nc	5.0E+02	nc	2.0E+00	nc
Pentachloronitrobenzene	82-68-8	2.7E+00	c	1.3E+02	c	1.2E-01	c
Pentachlorophenol	87-86-5	1.0E+00	c	4.0E+01	c	1.0E+00	gws
Perchlorate and perchlorate salts	Various	5.5E+01	nc	8.2E+02	nc	1.4E+01	nc
Permethrin	52645-53-1	3.2E+03	nc	4.1E+04	nc	1.0E+03	nc
Phenol	108-95-2	1.9E+04	nc	2.5E+05	nc	5.8E+03	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
m-Phenylenediamine	108-45-2	3.8E+02	nc	4.9E+03	nc	1.2E+02	nc
p-Phenylenediamine	106-50-3	6.3E+01	nc	8.2E+02	nc	2.0E+01	nc
2-Phenylphenol	90-43-7	2.9E+02	c	1.2E+04	c	3.1E+01	c
Phosphine	7803-51-2	2.3E+01	nc	3.5E+02	nc	5.7E-01	nc
Phosphorus (white)	7723-14-0	1.6E+00	nc	2.3E+01	nc	4.0E-01	nc
p-Phthalic acid	100-21-0	3.2E+04	nc	4.1E+05	nc	9.4E+03	nc
Phthalic anhydride	85-44-9	1.3E+05	nc	1.0E+06	max	3.9E+04	nc
Polybrominated biphenyls	36355-01-8	1.8E-02	c	7.7E-01	c	2.6E-03	c
Polychlorinated biphenyls (PCBs)	1336-36-3	3.1E-01	c	1.4E+01	c	5.0E-01	gws
Aroclor 1016	12674-11-2	5.5E+00	nc	8.2E+01	nc	2.2E-01	c
Aroclor 1221	11104-28-2	2.6E-01	c	1.2E+01	c	7.9E-03	c
Aroclor 1232	11141-16-5	2.2E-01	c	1.0E+01	c	7.9E-03	c
Aroclor 1242	53469-21-9	3.1E-01	c	1.5E+01	c	7.9E-03	c
Aroclor 1248	12672-29-6	3.1E-01	c	1.5E+01	c	7.9E-03	c
Aroclor 1254	11097-69-1	3.2E-01	c	1.5E+01	c	7.9E-03	c
Aroclor 1260	11096-82-5	3.3E-01	c	1.6E+01	c	7.9E-03	c
Polycyclic Aromatic Hydrocarbons (PAHs)							
Acenaphthene	83-32-9	4.1E+03	nc	4.7E+04	nc	2.4E+02	nc
Acenaphthylene	208-96-8	4.2E+03	nc	5.1E+04	nc	2.4E+02	nc
Anthracene	120-12-7	2.3E+04	nc	3.5E+05	nc	1.8E+03	nc
Benz[a]anthracene	56-55-3	1.5E+00	c	3.2E+02	c	3.0E-02	c
Benzo[b]fluoranthene	205-99-2	1.1E+00	c	2.1E+02	c	2.5E-01	c
Benzo[k]fluoranthene	207-08-9	1.1E+01	c	2.1E+03	c	2.5E+00	c
Benzo[g,h,i]perylene	191-24-2	1.8E+03	nc	2.3E+04	nc	6.0E+02	nc
Benzo[a]pyrene	50-32-8	1.1E-01	c	2.1E+01	c	2.0E-01	gws
Chrysene	218-01-9	1.1E+02	c	2.1E+04	c	2.5E+01	c
Dibenz[a,h]anthracene	53-70-3	1.1E-01	c	2.1E+01	c	2.5E-02	c
Fluoranthene	206-44-0	2.4E+03	nc	3.0E+04	nc	8.0E+02	nc
Fluorene	86-73-7	2.9E+03	nc	3.7E+04	nc	1.5E+02	nc
Indeno[1,2,3-cd]pyrene	193-39-5	1.1E+00	c	2.1E+02	c	2.5E-01	c
1-Methylnaphthalene	90-12-0	2.4E+01	c	3.9E+02	Csat	1.1E+00	c
2-Methylnaphthalene	91-57-6	3.1E+02	nc	4.7E+03	nc	3.6E+01	nc
Naphthalene	91-20-3	2.4E+00	c	1.1E+02	c	1.2E-01	c
Phenanthrene	85-01-8	2.3E+04	nc	3.5E+05	nc	1.7E+03	nc
Pyrene	129-00-0	2.3E+03	nc	3.4E+04	nc	7.9E+01	nc
Prometon	1610-18-0	9.5E+02	nc	1.2E+04	nc	2.5E+02	nc
Prometryn	7287-19-6	2.5E+03	nc	3.3E+04	nc	6.0E+02	nc
Propachlor	1918-16-7	8.2E+02	nc	1.1E+04	nc	2.5E+02	nc
Propanil	709-98-8	3.2E+02	nc	4.1E+03	nc	8.2E+01	nc
Propargite	2312-35-8	2.9E+00	c	1.2E+02	c	1.6E-01	c
n-Propylbenzene	103-65-1	2.6E+02	Csat	2.6E+02	Csat	6.6E+02	nc
Propylene glycol	57-55-6	1.0E+06	max	1.0E+06	max	4.0E+05	nc
Propylene glycol, monoethyl ether	1569-02-4	3.9E+04	Csat	3.9E+04	Csat	1.4E+04	nc
Propylene glycol, monomethyl ether	107-98-2	4.2E+04	nc	1.1E+05	Csat	3.2E+03	nc
Pursuit (Imazethapyr)	81335-77-5	1.6E+05	nc	1.0E+06	max	4.7E+04	nc
Pyridine	110-86-1	5.8E+01	nc	5.1E+02	nc	5.3E+00	nc
Quinoline	91-22-5	1.8E-01	c	7.7E+00	c	2.4E-02	c
RDX (Cyclonite)	121-82-4	6.1E+00	c	2.8E+02	c	7.0E-01	c
Resmethrin	10453-86-8	1.9E+03	nc	2.5E+04	nc	6.7E+01	nc
Ronnel	299-84-3	3.8E+03	nc	5.1E+04	nc	2.0E+02	nc
Rotenone	83-79-4	2.5E+02	nc	3.3E+03	nc	6.1E+01	nc
Selenious Acid	7783-00-8	3.9E+02	nc	5.8E+03	nc	1.0E+02	nc
Selenium	7782-49-2	3.9E+02	nc	5.8E+03	nc	5.0E+01	gws
Silver and compounds	7440-22-4	3.9E+02	nc	5.8E+03	nc	9.4E+01	nc
Simazine	122-34-9	4.5E+00	c	1.9E+02	c	4.0E+00	gws

60CSR9 (effective 12/2/2021)

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
Sodium azide	26628-22-8	3.1E+02	nc	4.7E+03	nc	8.0E+01	nc
Sodium diethyldithiocarbamate	148-18-5	2.0E+00	c	8.5E+01	c	2.9E-01	c
Strontium, stable	7440-24-6	4.7E+04	nc	7.0E+05	nc	1.2E+04	nc
Strychnine	57-24-9	1.9E+01	nc	2.5E+02	nc	5.9E+00	nc
Styrene	100-42-5	8.7E+02	Csat	8.7E+02	Csat	1.0E+02	gws
tert-butanol (tert-butyl alcohol)	75-65-0	1.4E+03	nc	2.1E+04	nc	3.6E+02	nc
2,3,7,8-Tetrachlorodibenzodioxin (TCDD/dioxin)	1746-01-6	5.2E-06	c	2.4E-04	c	3.0E-05	gws
1,2,4,5-Tetrachlorobenzene	95-94-3	1.7E+01	nc	1.5E+02	nc	9.8E-01	nc
1,1,1,2-Tetrachloroethane	630-20-6	2.1E+00	c	9.4E+01	c	5.7E-01	c
1,1,2,2-Tetrachloroethane	79-34-5	6.4E-01	c	2.8E+01	c	7.6E-02	c
Tetrachloroethylene (PCE)	127-18-4	2.5E+01	c	1.7E+02	Csat	5.0E+00	gws
2,3,4,6-Tetrachlorophenol	58-90-2	1.9E+03	nc	2.5E+04	nc	2.4E+02	nc
p,a,a,a-Tetrachlorotoluene	5216-25-1	2.1E-02	c	9.8E-01	c	5.5E-04	c
Tetrahydrofuran	109-99-9	2.0E+04	nc	1.0E+05	nc	3.4E+03	nc
Thallium and compounds	7440-28-0	7.8E-01	nc	1.2E+01	nc	2.0E+00	gws
Thiobencarb	28249-77-6	6.3E+02	nc	8.2E+03	nc	1.6E+02	nc
Thiocyanates	Various	1.6E+01	nc	2.3E+02	nc	4.0E+00	nc
Tin and compounds	7440-31-5	4.7E+04	nc	7.0E+05	nc	1.2E+04	nc
Toluene	108-88-3	8.2E+02	Csat	8.2E+02	Csat	1.0E+03	gws
Toluene-2,4-diamine	95-80-7	1.4E-01	c	5.7E+00	c	1.9E-02	c
Toluene-2,5-diamine	95-70-5	3.0E+00	c	1.3E+02	c	4.3E-01	c
Toluene-2,6-diamine	823-40-5	1.9E+03	nc	2.5E+04	nc	6.0E+02	nc
p-Toluidine	106-49-0	1.8E+01	c	7.7E+02	c	2.5E+00	c
Toxaphene	8001-35-2	4.9E-01	c	2.1E+01	c	3.0E+00	gws
1,2,4-Tribromobenzene	615-54-3	2.8E+02	nc	2.4E+03	nc	2.0E+01	nc
Tributyltin oxide (TBTO)	56-35-9	1.9E+01	nc	2.5E+02	nc	5.7E+00	nc
2,4,6-Trichloroaniline	634-93-5	1.9E+00	nc	2.5E+01	nc	4.0E-01	nc
1,2,4-Trichlorobenzene	120-82-1	2.4E+01	c	2.8E+02	nc	7.0E+01	gws
1,1,1-Trichloroethane	71-55-6	6.4E+02	Csat	6.4E+02	Csat	2.0E+02	gws
1,1,2-Trichloroethane	79-00-5	1.2E+00	c	6.8E+00	nc	5.0E+00	gws
Trichloroethylene (TCE)	79-01-6	1.0E+00	c	2.0E+01	nc	5.0E+00	gws
Trichlorofluoromethane	75-69-4	7.9E+02	nc	1.2E+03	Csat	1.1E+03	nc
2,4,5-Trichlorophenol	95-95-4	6.3E+03	nc	8.2E+04	nc	1.2E+03	nc
2,4,6-Trichlorophenol	88-06-2	4.9E+01	c	8.2E+02	nc	4.1E+00	c
2,4,5-Trichlorophenoxyacetic Acid	93-76-5	6.3E+02	nc	8.2E+03	nc	1.6E+02	nc
2-(2,4,5-Trichlorophenoxy) propionic acid	93-72-1	5.1E+02	nc	6.6E+03	nc	5.0E+01	gws
1,1,2-Trichloropropane	598-77-6	1.7E+02	nc	1.0E+03	nc	2.6E+01	nc
1,2,3-Trichloropropane	96-18-4	5.1E-03	c	1.1E+00	c	7.5E-04	c
1,2,3-Trichloropropene	96-19-5	7.8E-01	nc	3.3E+00	nc	6.2E-01	nc
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	9.1E+02	Csat	9.1E+02	Csat	1.0E+04	nc
1,2,4-Trimethylbenzene	95-63-6	2.2E+02	Csat	2.2E+02	Csat	5.6E+01	nc
1,3,5-Trimethylbenzene	108-67-8	1.8E+02	Csat	1.8E+02	Csat	6.0E+01	nc
Trimethyl phosphate	512-56-1	2.7E+01	c	1.1E+03	c	3.9E+00	c
1,3,5-Trinitrobenzene	99-35-4	2.2E+03	nc	3.2E+04	nc	5.9E+02	nc
Trinitrophenylmethylnitramine (Tetryl)	479-45-8	1.6E+02	nc	2.3E+03	nc	3.9E+01	nc
2,4,6-Trinitrotoluene	118-96-7	2.1E+01	c	5.1E+02	nc	2.5E+00	c
Vanadium and compounds	7440-62-2	4.6E+02	c	8.4E+03	nc	1.5E+02	nc
Vinclozolin	50471-44-8	7.6E+01	nc	9.8E+02	nc	2.1E+01	nc
Vinyl acetate	108-05-4	9.7E+02	nc	2.7E+03	Csat	4.1E+02	nc
Vinyl bromide	593-60-2	2.8E-01	c	1.2E+01	c	3.7E-01	c
Vinyl chloride	75-01-4	6.1E-02	c	1.8E+01	c	2.0E+00	gws
Warfarin	81-81-2	1.9E+01	nc	2.5E+02	nc	5.6E+00	nc
Xylenes	1330-20-7	2.6E+02	Csat	2.6E+02	Csat	1.0E+04	gws
Zinc and Compounds	7440-66-6	2.3E+04	nc	3.5E+05	nc	6.0E+03	nc
Zinc phosphide	1314-84-7	2.3E+01	nc	3.5E+02	nc	6.0E+00	nc

CONTAMINANT	CAS No.	Residential Soil[1,3] (mg/kg)	Value Basis[4]	Industrial Soil[1,3] (mg/kg)	Value Basis[4]	Ground Water[2,3] (ug/L)	Value Basis[4]
Zineb	12122-67-7	3.2E+03	nc	4.1E+04	nc	9.9E+02	nc

Notes:

[1]The residential and industrial soil values consider ingestion and dermal exposure to soil and inhalation exposure to contaminants moving from soil to ambient air.

[2]Groundwater standards promulgated under 47CSR12 are provided, where available. Standards that are unavailable under 47CSR12 are based on a risk-based methodology that considers ingestion, dermal and inhalation exposure arising from the domestic use of groundwater.

[3]The concentrations in this table shall be applied where the exposure pathways described in footnotes 1 and 2 are the major contributors to risks identified in the site assessment. If other exposure pathways are identified, the acceptable concentrations shall be determined only in consultation with the Secretary, considering all exposure pathways, and all other requirements of the regulations.

[4]Basis of standard: c – cancer effect; nc – noncancer effect; max – calculated risk-based concentration exceeds maximum possible contaminant level of $1x10^6$ mg/kg; Csat - calculated risk-based concentration exceeds residual saturation level; gws – West Virginia Groundwater Quality Standard from 47CSR12

*Lead - Residential soil based on Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities (July 1994), USEPA OSWER Directive 9355.4-12. Industrial soil based on the USEPA documents Recommendations of the Technical Review Workgroup for Lead for an Interim Approach to Assessing Risks Associated with Adult Exposures to Lead in Soils (December 1996) and Frequently Asked Questions (FAQs) on the Adult Lead Model (April 1999).

SITE ASSESSMENT REPORT, REVISION 1.1

CAMC GREENBRIER VALLEY MEDICAL CENTER
1320 MAPLEWOOD AVENUE
RONCEVERTE, GREENBRIER COUNTY, WEST VIRGINIA
VRP PROJECT #24023

September 2025

Prepared for:

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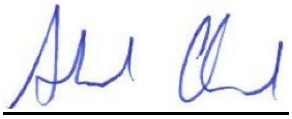

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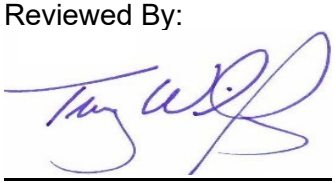
Senior Project Manager

Reviewed By:



Terry L. Wilfong, Jr., LRS
Regional Manager

EXECUTIVE SUMMARY

KEMRON Environmental Services, Inc. (KEMRON) has been retained by Charleston Area Medical Center (CAMC) Greenbrier Valley Medical Center (GVMC) to address environmental conditions at the CAMC GVMC facility located at 1320 Maplewood Avenue, Ronceverte, Greenbrier County, West Virginia under the West Virginia Voluntary Remediation and Redevelopment Program (VRP).

The GVMC facility consists of a 24-acre Site is developed with six (6) buildings of various sizes, totaling approximately 181,930 square feet. The main building (the medical center) is three (3) stories and houses office/administrative and healthcare operations.

On February 11, 1993, Abel Construction performed closure of one (1) 1,000-gallon capacity gasoline underground storage tank (UST) at the GVMC. During February 1993 UST closure activities, approximately 247 gallons of gasoline and water were removed from the UST and disposed at H&I Waste Haulers, LTD of Cross Lanes, West Virginia, and the 1,000-gallon capacity gasoline UST was removed from the ground and transported to Mabscott Salvage of Beckley, West Virginia for recycling. Composite confirmation soil samples were collected from beneath the dispenser piping, beneath the dispenser, tank pit bottom and walls, and from a sample designation labeled as *contaminated soil*, which is presumably stockpiled soil from the UST excavation. Confirmation soil samples were submitted to REIC Laboratory of Beaver, West Virginia for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) according to United States Environmental Protection Agency (EPA) Method 8020 and Total Petroleum Hydrocarbons (TPH) according to EPA Method 8015. KEMRON did not observe evidence of regulatory correspondence subsequent to February 1993 UST closure activities at GVMC. Analytical results for confirmation soil samples collected during February 1993 UST closure activities indicated no constituent concentrations exceeded current applicable regional screening levels.

KEMRON had determined there was evidence that a non-regulated 10,000-gallon capacity heating oil UST was closed in December 1993 and removed from the site. It was also determined that during closure activities, soil was excavated from the UST basin and stockpiled towards the northwestern portion of the Site.

On February 23, 1994, Marshall Miller & Associates (MM&A) supervised the closure of one (1) 550-gallon diesel UST at GVMC, which was previously utilized to fuel an emergency generator. The 550-gallon diesel UST was located in a basin with dimensions of approximately six (6) feet in depth, 10 feet in length, and 10 feet in width. Upon removal of the 550-gallon diesel UST, the UST exhibited signs of minor pitting and corrosion, and no cracks or perforations were observed within the UST containment system. Composite confirmation soil samples were obtained from the UST excavation walls and bottom and from stockpiled soil removed from the excavation. However, no soil samples were obtained from product piping excavations due to close proximity of the diesel generator to the product lines. Approximately five (5) cubic yards of soil was removed from the UST excavation and stockpiled with soil previously removed during the December 1993 closure of a 10,000-gallon capacity diesel UST. Analytical results for composite confirmation soil samples collected during February 1994 UST closure activities indicated the TPH concentration in the composite wall sample was detected at 28 milligrams per kilogram (mg/Kg), and the xylene concentration in the composite stockpile soil sample was detected at 0.048 mg/Kg. No other adsorbed-phase constituents were detected at concentrations exceeding laboratory method detection limits in any confirmation soil samples collected. No comparison to applicable regional screening levels is included in the March 1994 *Closure Report*, and there is no current applicable

regional screening level established for TPH. In addition, the xylene concentration of 0.048 mg/Kg does not exceed any current applicable regional screening level for xylene. Based on analytical results for soil samples collected during February 1994 UST closure activities MM&A petitioned the West Virginia Department of Environmental Protection (WVDEP) for *clean closure of the subject site*, which is presumably a No Further Action (NFA) equivalent. WVDEP issued UST Closure Inspection correspondence dated February 23, 1994, indicating a confirmed release was not issued subsequent to inspection of the February 1994 UST closure.

Upon review of the March 1994 *Closure Report* for GVMC, KEMRON observed evidence of closure of one (1) 10,000-gallon capacity diesel (heating oil) UST at GVMC, which was documented on March 1994 *Notification for Underground Storage Tanks* correspondence. March 1994 *Notification for Underground Storage Tanks* correspondence indicates the 10,000-gallon heating oil UST was closed in December 1993 and is listed as *non-regulated* due to the nature of the material stored within the tank as heating oil. The 10,000-gallon capacity heating oil UST was closed by removal from the ground, and site assessment activities were completed. However, KEMRON did not observe UST Closure Report documentation for the 10,000-gallon capacity heating oil UST in public records, presumably due to the *non-regulated* status of the UST.

On August 29, 2022, Bridge House Advisors Corp. (Bridge House) performed Phase I Environmental Site Assessment (ESA) activities at GVMC. One (1) Recognized Environmental Condition (REC) was identified at the Site during Phase I ESA activities in relation to historical on-site incinerator ash and medical waste disposal. Results of the August 2022 Phase I ESA indicated an incinerator was used to incinerate medical waste from approximately 1974 to 1985, and incinerator ash was deposited in a ditch in the northwestern portion of the site. In 2004, incinerator ash was discovered when two (2) sinkholes developed at the northwestern portion of the site. Four (4) soil samples were collected from 1.5 to 2.5 feet below ground surface (b.g.s.) in the vicinity of the sinkholes where evidence of ash and medical waste was observed and submitted for analysis of Toxicity Characteristic Leaching Procedure (TCLP) arsenic barium, cadmium, chromium, lead, selenium, silver, and mercury. KEMRON did not observe specific dates of sinkhole soil sampling activities in client-provided historical documentation. Analytical results for soil samples collected from the two (2) sinkholes indicated cadmium and lead were detected at concentrations that exceeded West Virginia Standards for Purity and Quality of Groundwater (PQG) as defined by the previous consultant. KEMRON did not observe evidence in public record or client-provided information that soil exhibiting contamination with cadmium and lead had been removed.

On November 2 and 3, 2022, Bridge House conducted a Phase II ESA to assess subsurface conditions at GVMC in relation to the sinkholes and historical incinerator and medical waste disposal. During Phase II ESI activities, 13 soil borings and five (5) temporary wells were advanced in the vicinity of the sinkholes; eight (8) soil borings were advanced in the vicinity of the drainage ditch that conveys stormwater to the sinkholes; and three (3) soil borings and temporary wells were advanced between the sinkholes, drainage ditch, and nearest building. Soil samples collected during Phase II ESI activities were submitted to Pace Analytical Services, LLC (Pace) of Mt. Juliet, Tennessee for analysis of volatile organic compounds (VOCs) according to EPA Method 8260B, semi-volatile organic compounds (SVOCs) according to EPA Method 8270C SIM, and Resource Conservation and Recovery Act (RCRA) metals according to EPA Method 6010D/7471B, and TCLP Metals according to EPA Method 1311. Groundwater samples collected during Phase II ESI activities were submitted to Pace of Mt. Juliet, Tennessee for analysis of VOCs according to EPA Method 8260D, SVOCs according to EPA Method 8270E SIM, and RCRA metals according to EPA Method 6010D/7470A. Laboratory analytical results for soil and groundwater samples collected during Phase II ESA activities indicated numerous adsorbed and

dissolved-phase constituent concentrations exceeded applicable adsorbed-phase *Residential De Minimis* Standards and *Groundwater De Minimis* Standards.

The current UST system at the Site is comprised of one (1) 5,000-gallon diesel fuel UST that is reportedly used to provide fuel for backup generators; however, a 5,000-gallon heating oil UST is listed for GVMC with the address of 202 Maplewood Avenue in the WVDEP database of USTs. The UST is constructed of steel with cathodic protection and was installed on February 8, 1994. The most recent tightness test was conducted in June 2023. Based on a review of available public records, there have been no reported releases from the UST. In addition, according to the WVDEP UST database, four (4) former USTs were reportedly installed in the 1970s including:

- One (1) 1,000-gallon, gasoline UST, which was removed in February 1993;
- One (1) 10,000-gallon, asphalt coated steel UST containing diesel fuel (heating oil), which was removed in December 1993;
- One (1) 550-gallon, asphalt coated steel UST containing gasoline, which was removed in February 1994; and
- One (1) 500-gallon, asphalt coated steel UST is noted as closed in historical regulatory correspondence for GVMC from 1993 to 1994. However, KEMRON did not observe evidence of appropriate closure documentation (closure sampling, disposal records, photographs, etc.) in review of reasonably ascertainable public records.

On March 17, 2024, KEMRON was retained by CAMC to perform Assessment of Site Impacts Under the West Virginia VRP.

In July, August, September, and October 2024, KEMRON performed Site Assessment activities at the GVMC facility consisting of the advancement of 15 soil borings using Geoprobe® direct-push technology. Eleven of the soil borings were subsequently completed as groundwater monitoring wells MW-1 through MW-11.

Based on the findings of 2024 Site Assessment activities completed for the GVMC, it has been determined that:

- Stratigraphy at the GVMC facility generally consists of topsoil, asphalt, or gravel at the surface which transitions to fill material comprised of silt, gravel, and some clay from 0.5 to 2.5 to 3.5 feet b.g.s., clays with some sandy clays and clayey silts from between 2.5 to 3.5 feet b.g.s. to between 10 feet b.g.s. and 22 feet b.g.s, and weathered limestone bedrock with some sand and cobble to refusal, which was generally encountered between 10 and 24 feet b.g.s. Groundwater was encountered in soil borings SB-1 through SB-3, SB-6, SB-8, SB-11, and SB-12 between approximately eight (8) feet b.g.s. (SB-2) and 22 feet b.g.s.(SB-1).;

- During the September 4, 2024, gauging event, groundwater beneath the GVMC facility flowed north-northwest and northeast with an approximate average hydraulic gradient of 0.0659 ft/ft;

- Laboratory analytical results for surface soil samples collected during 2024 Site Assessment activities indicated adsorbed-phase RCRA metals, polynuclear aromatic hydrocarbons (PAHs), and Dioxins and furan COPC concentrations were detected in excess of either the *Residential De Minimis* Standards or *West Virginia Natural Background* Levels, are presumably associated with the former USTs as well as the

former discarding of incinerator medical waste on the property, and will require further evaluation as part of the upcoming Residual Human Health and Ecological Risk Assessment (RHHERA);

- Laboratory analytical results for subsurface soil samples collected during 2024 Site Assessment activities indicated adsorbed-phase RCRA metals COPC concentrations were detected in excess of either the *Residential* and/or *Industrial De Minimis* Standards or *West Virginia Natural Background* Levels, are presumably associated with the former USTs as well as the former discarding of incinerator medical waste on the property, and will require further evaluation as part of the upcoming RHHERA;

Laboratory analytical results for groundwater samples collected during 2024 Site Assessment activities indicated dissolved-phase VOC, PAH, and SVOC COPC concentrations were detected in excess of West Virginia *Groundwater De Minimis* Standards and/or *EPA Residential* and/or *Industrial Vapor Intrusion Screening Levels* and will require further evaluation as part of the upcoming RHHERA.

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LIST OF ACRONYMS AND ABBREVIATIONS

b.g.s.	below ground surface
Bridge House	Bridge House Advisors Corp
BTEX	Benzene, Toluene, Ethylbenzene, Total Xylenes
CFR	Code of Federal Regulations
CAMC	Charleston Area Medical Center
COC	constituents of concern
CRZ	contaminant reduction zone
COPCs	contaminants of potential concern
DQO	data quality objectives
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
ft/ft	feet per foot
GVMC	Greenbrier Valley Medical Center
HAS	hollow-stem auger
IDW	Investigative Derived Waste
KCl	potassium chloride
KEMRON	KEMRON Environmental Services, Inc.
LCS	laboratory control sample
LRS	Licensed Remediation Specialist
LNAPL	light, non-aqueous phase liquid
MM&A	Marshall Miller & Associates
MS/MSD	Matrix Spike/Matrix Spike Duplicates
MDL	method detection limit
MTBE	Methyl tert-butyl ether
µg/L	micrograms per liter
mg/Kg	milligrams per kilogram
NFA	No Further Action
ND	not detected
Pace	Pace Analytical Services, LLC
PARCCS	Precision, Accuracy, Representativeness, Completeness, Comparability, Sensitivity
PID	photoionization detector

PAHs	polynuclear aromatic hydrocarbons
PVC	polyvinyl chloride
PQG	Purity and Quality of Groundwater
QC	Quality Control
RPD	relative percent difference
RSD	relative standard deviation
RL	reporting limit
RHHERA	Residual Human Health and Ecological Risk Assessment
RCRA	Resource Conservation and Recovery Act
SAWP	Site Assessment Work Plan
SVOC	semi-volatile organic compound
SOP	Standard Operating Procedure
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
UST	underground storage tank
VMP	vapor monitoring point
VRP	Voluntary Remediation Program
VOC	volatile organic compound
WVDEP	West Virginia Department of Environmental Protection

1.0 INTRODUCTION

1.1 Purpose and Scope

KEMRON Environmental Services, Inc. (KEMRON) was retained by CAMC Greenbrier Valley Medical Center (GVMC) to address environmental conditions at their facility located at 1320 Maplewood Avenue, Ronceverte, Greenbrier County, West Virginia under the West Virginia Voluntary Remediation and Redevelopment Program (VRP). The location of the GVMC facility is depicted in **Figure 1**.

The following *Site Assessment Report* was prepared for GVMC and is subject to the limitations listed in Section 8.0 herein. The work was undertaken and performed in accordance with generally accepted Site Assessment procedures as outlined in the West Virginia VRP. The conclusions provided in this report are based upon the information obtained during the site investigations, personal interviews, and review of readily available public domain documents.

2.0 SITE BACKGROUND

2.1 Site Location and Use

The GVMC facility is located at 1320 Maplewood Avenue Ronceverte, Greenbrier County, West Virginia. The Site is situated on the northern side of Maplewood Avenue. Coordinates for the approximate center of the Site are 38° 13’ 25.59’’ north latitude and 80° 32’ 01.32” west longitude. The facility houses a 122-bed facility with inpatient and outpatient care, emergency services, surgical care, and diagnostic services.

2.2 Site Description

The GVMC facility is situated in a mixed commercial/residential area of Ronceverte. The 24-acre Site is developed with six (6) buildings of various sizes, totaling approximately 181,930 square feet. The main building (the medical center) is three (3) stories and houses office/administrative and healthcare operations. The surrounding land use consists of Greenbrier East High School to the north, Eastern Greenbrier Middle School to the west, agricultural land to the south, and Maplewood Avenue and various commercial and residential structures to the East.

The Site was agricultural land from at least 1952 until the original portion of the existing building was constructed in 1974 for use by the Humana Hospital Corporation. The hospital operated a facility medical waste incinerator, in which incinerated ash and other material was reportedly routinely dumped into an on-Site ditch along the western property boundary until 1985, when the ash was then disposed in an approved landfill. The hospital expanded with building additions in 1993 and 2007, and two (2) ancillary buildings were added in 1995. By 2007, the Site appeared to be in its current configuration. Site personnel were unable to indicate whether there have been any major changes in operations at the Site since GVMC began operations in 2003; however, since the Site has historically been operated as a hospital, Site operations are not expected to have changed significantly.

The current underground storage tank (UST) system at the Site is comprised of one (1) 5,000-gallon diesel fuel UST that is reportedly used to provide fuel for backup generators; however, a 5,000-gallon heating oil UST is listed for GVMC with the address of 202 Maplewood Avenue in the West Virginia Department of Environmental Protection (WVDEP) database of USTs. The UST

is constructed of steel with cathodic protection and was installed on February 8, 1994. The most recent tightness test was conducted in June 2023. Based on a review of available public records, there have been no reported releases from the UST. In addition, according to the WVDEP UST database, four (4) former USTs were reportedly installed in the 1970s including:

- One (1) 1,000-gallon, gasoline UST, which was removed in February 1993;
- One (1) 10,000-gallon, asphalt coated steel UST containing diesel fuel (heating oil), which was removed in December 1993;
- One (1) 550-gallon, asphalt coated steel UST containing gasoline, which was removed in February 1994; and
- One (1) 500-gallon, asphalt coated steel UST is noted as closed in historical regulatory correspondence for GVMC from 1993 to 1994. However, KEMRON did not observe evidence of appropriate closure documentation (closure sampling, disposal records, photographs, etc.) in review of reasonably ascertainable public records.

On March 17, 2024, KEMRON was retained by CAMC to perform assessment of site impacts under the West Virginia VRP.

On May 22, 2024, KEMRON, on behalf of CAMC, submitted *Voluntary Remediation Program Application* correspondence to WVDEP, Office of Environmental Remediation to apply for incorporation of the site into the WVDEP VRP. On June 17, 2024, WVDEP Project Manager Derek Hancock submitted correspondence stating that the Site has been accepted into the VRP. The Site was assigned VRP #24023.

2.3 Previous Activities

On February 11, 1993, Abel Construction performed closure of one (1) 1,000-gallon capacity gasoline UST at GVMC. During February 1993 UST closure activities, approximately 247 gallons of gasoline and water were removed from the UST and disposed at H&I Waste Haulers, LTD of Cross Lanes, West Virginia, and the 1,000-gallon capacity gasoline UST was removed from the ground and transported to Mabscott Salvage of Beckley, West Virginia for recycling. Composite confirmation soil samples were collected from beneath the dispenser piping, beneath the dispenser, tank pit bottom and walls, and from a sample designation labeled as *contaminated soil*, which is presumably stockpiled soil from the UST excavation. Confirmation soil samples were submitted to REIC Laboratory of Beaver, West Virginia for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) according to United States Environmental Protection Agency (EPA) Method 8020 and Total Petroleum Hydrocarbons (TPH) according to EPA Method 8015. KEMRON did not observe evidence of regulatory correspondence subsequent to February 1993 UST closure activities at GVMC. Analytical results for confirmation soil samples collected during February 1993 UST closure activities indicated no constituent concentrations exceeded current applicable regional screening levels.

KEMRON had determined there was evidence that a non-regulated 10,000-gallon capacity heating oil UST was closed in December 1993 and removed from the site. It was also determined that during closure activities, soil was excavated from the UST basin and stockpiled towards the northwestern portion of the Site.

On February 23, 1994, Marshall Miller & Associates (MM&A) supervised the closure of one (1) 550-gallon diesel UST at GVMC, which was previously utilized to fuel an emergency generator. The 550-gallon diesel UST was located in a basin with dimensions of approximately six (6) feet

in depth, 10 feet in length, and 10 feet in width. Upon removal of the 550-gallon diesel UST, the UST exhibited signs of minor pitting and corrosion, and no cracks or perforations were observed within the UST containment system. Composite confirmation soil samples were obtained from the UST excavation walls and bottom and from stockpiled soil removed from the excavation. However, no soil samples were obtained from product piping excavations due to close proximity of the diesel generator to the product lines. Approximately five (5) cubic yards of soil was removed from the UST excavation and stockpiled with soil previously removed during the December 1993 closure of a 10,000-gallon capacity diesel UST. Analytical results for composite confirmation soil samples collected during February 1994 UST closure activities indicated the TPH concentration in the composite wall sample was detected at 28 milligrams per kilogram (mg/Kg), and the xylene concentration in the composite stockpile soil sample was detected at 0.048 mg/Kg. No other adsorbed-phase constituents were detected at concentrations exceeding laboratory method detection limits in any confirmation soil samples collected. No comparison to applicable regional screening levels is included in the March 1994 *Closure Report*, and there is no current applicable regional screening level established for TPH. In addition, the xylene concentration of 0.048 mg/Kg does not exceed any current applicable regional screening level for xylene. Based on analytical results for soil samples collected during February 1994 UST closure activities MM&A petitioned WVDEP for *clean closure of the subject site*, which is presumably a No Further Action (NFA) equivalent. WVDEP issued UST Closure Inspection correspondence dated February 23, 1994, indicating a confirmed release was not issued subsequent to inspection of the February 1994 UST closure.

Upon review of the March 1994 *Closure Report* for GVMC, KEMRON observed evidence of closure of one (1) 10,000-gallon capacity diesel (heating oil) UST at GVMC, which was documented on March 1994 *Notification for Underground Storage Tanks* correspondence. March 1994 *Notification for Underground Storage Tanks* correspondence indicates the 10,000-gallon heating oil UST was closed in December 1993 and is listed as *non-regulated* due to the nature of the material stored within the tank as heating oil. The 10,000-gallon capacity heating oil UST was closed by removal from the ground, and site assessment activities were completed. However, KEMRON did not observe UST Closure Report documentation for the 10,000-gallon capacity heating oil UST in public records, presumably due to the *non-regulated* status of the UST.

On August 29, 2022, Bridge House Advisors Corp. (Bridge House) performed Phase I Environmental Site Assessment (ESA) activities at GVMC. One (1) Recognized Environmental Condition (REC) was identified at the Site during Phase I ESA activities in relation to historical on-site incinerator ash and medical waste disposal. Results of the August 2022 Phase I ESA indicated an incinerator was used to incinerate medical waste from approximately 1974 to 1985, and incinerator ash was deposited in a ditch in the northwestern portion of the site. In 2004, incinerator ash was discovered when two (2) sinkholes developed at the northwestern portion of the site. Four (4) soil samples were collected from 1.5 to 2.5 feet below ground surface (b.g.s.) in the vicinity of the sinkholes where evidence of ash and medical waste was observed and submitted for analysis of Toxicity Characteristic Leaching Procedure (TCLP) arsenic barium, cadmium, chromium, lead, selenium, silver, and mercury. KEMRON did not observe specific dates of sinkhole soil sampling activities in client-provided historical documentation. Analytical results for soil samples collected from the two (2) sinkholes indicated cadmium and lead were detected at concentrations that exceeded West Virginia Standards for Purity and Quality of Groundwater (PQG) as defined by the previous consultant. KEMRON did not observe evidence in public record or client-provided information that soil exhibiting contamination with cadmium and lead had been removed.

On November 2 and 3, 2022, Bridge House conducted a Phase II Environmental Site Assessment (ESA) to assess subsurface conditions at GVMC in relation to the sinkholes and historical incinerator and medical waste disposal. During Phase II ESI activities, 13 soil borings and five (5) temporary groundwater monitoring wells were advanced in the vicinity of the sinkholes; eight (8) soil borings were advanced in the vicinity of the drainage ditch that conveys stormwater to the sinkholes; and three (3) soil borings and temporary wells were advanced between the sinkholes, drainage ditch, and nearest building. Soil samples collected during Phase II ESI activities were submitted to Pace Analytical Services, LLC (Pace) of Mt. Juliet, Tennessee for analysis of volatile organic compounds (VOCs) according to EPA Method 8260B, semi-volatile organic compounds (SVOCs) according to EPA Method 8270C SIM, and Resource Conservation and Recovery Act (RCRA) metals according to EPA Method 6010D/7471B, and TCLP Metals according to EPA Method 1311. Groundwater samples collected during Phase II ESI activities were submitted to Pace of Mt. Juliet, Tennessee for analysis of VOCs according to EPA Method 8260D, SVOCs according to EPA Method 8270E SIM, and RCRA metals according to EPA Method 6010D/7470A. Laboratory analytical results for soil and groundwater samples collected during Phase II ESA activities indicated numerous adsorbed and dissolved-phase constituent concentrations exceeded applicable adsorbed-phase *Residential De Minimis* Standards and *Groundwater De Minimis* Standards. A table providing historical soil results is provided as **Table 1**. A table providing historical groundwater results is provided as **Table 2**. Historical soil sample and groundwater sample locations are depicted in **Figure 3**.

3.0 ASSESSMENT METHODOLGY

3.1 Geoprobe® Soil Investigation

In an effort to further evaluate environmental conditions at the GVMC facility under West Virginia VRP requirements and in accordance with the approved Site Assessment Work Plan, KEMRON utilized Geoprobe® direct-push technology. From July 22 through August 6, 2024, KEMRON advanced 15 soil borings in the locations illustrated on **Figure 2**. Soil borings were advanced to depths ranging between ten (10) and 24 feet b.g.s. in advance of permanent groundwater monitoring well installation. Historical surface soil sample locations are displayed in **Figure 3**. Soil boring logs showing the sampling intervals, lithology, and photoionization detector (PID) results within each boring are presented in **Appendix A**.

Soil samples were collected using a Geoprobe® Dual Tube sampler with disposable acetate liners at continuous 2.5-foot intervals. Geoprobe® Dual Tube samplers were washed in an alkaline soap solution and rinsed with distilled water before and between sampling activities. Representative soil samples were collected, labeled, sealed in re-sealable plastic bags, and placed in an ice-filled cooler at less than 4°C using clean nitrile gloves. A duplicate sample was placed into a re-sealable plastic bag and allowed to equilibrate for 15 minutes. After equilibration, the headspace within each duplicate re-sealable bag was field screened with a PID, and the readings were recorded in indelible ink in a bound field notebook. Note that field screening was conducted according to WVDEP Standard Operating Procedure (SOP) OER-0101.

Due to WVDEP requirements and SW846 Method 5035 protocol, three (3) discrete soil aliquots were collected from each sample interval. KEMRON collected two (2) soil samples from each soil boring from the most heavily impacted area as determined by PID readings and visual and/or olfactory observations. Note that soil samples were collected according to WVDEP SOP OER-0121. Soil samples collected in this manner were placed in the appropriate sample containers, properly labeled, placed in an ice-filled cooler with the appropriate chain-of-custody

documentation and submitted to Pace Analytical Services, LLC (Pace) in Beaver, West Virginia, for analysis.

Soil samples were analyzed for VOCs by EPA Method 8260; SVOCs by EPA Method 8270; polynuclear aromatic hydrocarbons (PAHs) according to EPA Method 8270 SIM, and Total RCRA Metals including Arsenic, Barium, Cadmium, Chromium, Hexavalent Chromium, Lead, Selenium and Silver by EPA Method 6010B; Mercury by EPA Method 7471A. Note that soil samples collected from soil borings SB-3 through SB-8 were also analyzed for Dioxins and Furans according to EPA Method 1613B.

Adsorbed-phase analytical results for surface soil samples are presented in **Tables 3** through **7** and soil sample results exhibiting exceedances of the West Virginia Residential or Industrial Soil Standards are graphically displayed in **Figures 4** through **8**. Adsorbed-phase analytical results for subsurface soil samples are presented in **Tables 8** through **12** and soil sample results exhibiting exceedances of the West Virginia *Residential* and/or *Industrial Soil De Minimis* Standards are graphically displayed in **Figures 9** through **13**. Laboratory analytical reports are available in **Appendix B**.

3.2 Monitoring Well Installation

To determine the groundwater flow direction and evaluate the presence or absence of dissolved-phase contaminants of potential concern (COPCs), 11 soil borings were subsequently completed as groundwater monitoring wells MW-1 through MW-11 with hollow-stem auger (HSA) technology. Groundwater monitoring wells were installed to terminal depths ranging from 12 feet b.g.s. to 24 feet b.g.s. Monitoring well locations are depicted on **Figure 2**.

The groundwater monitoring wells were constructed in a manner such that the screened interval extended both above and below the first occurrence of saturated conditions in the subsurface, allowing the entry of light, non-aqueous phase liquid (LNAPL) petroleum hydrocarbons (if present) into the monitoring wells.

Groundwater monitoring wells MW-1 through MW-11 were completed using flush-threaded, 2-inch diameter, Schedule 40 polyvinyl chloride (PVC) casing and 0.010-inch slotted screen. Monitoring wells MW-1, MW-2, and MW-5 were constructed with well screens in five (5) foot lengths such that the water table was intercepted. The remaining monitoring wells were constructed well screens in ten (10) foot lengths such that the water table was intercepted. The bottom of each well was fitted with a two 2-inch diameter Schedule 40 PVC plug. The annular space between the well casings and the borehole walls was backfilled with washed sand to two (2) feet above the slotted screen. A one (1) to two (2) foot thick bentonite seal was placed above the sand pack. Grout completed the annular space of each well. The groundwater monitoring wells were each fitted with a locking cap, a flush-mount manway, and secured. Monitoring well construction logs are presented in **Appendix C**.

3.3 Groundwater Sampling

On September 4 through 6, 2024, one (1) round of groundwater samples was collected from nine (9) of the 11 newly installed groundwater monitoring wells. Note that groundwater samples were unable to be collected from monitoring wells MW-1 and MW-2 due to insufficient water volume. Prior to groundwater sample collection, the depth to water in each well was gauged using an electronic water level indicator and documented in a bound field notebook. Groundwater gauging and elevation data is presented in **Table 13**. After gauging the wells, each well was purged via

low-flow sampling protocols until water quality parameters stabilized as specified in Section 7.2 of the project-specific Site Assessment Work Plan (SAWP) approved by WVDEP.

Following purging, groundwater samples were collected from each well using a low-flow pump and disposable tubing in accordance with the procedures outlined in Section 7.2 of the SAWP as well as WVDEP SOP OPER-110. Groundwater samples were then transferred to the appropriate laboratory-supplied sample containers, placed in an ice-filled cooler with the appropriate chain-of custody documentation and submitted to Pace via lab courier. Groundwater samples were analyzed for VOCs by EPA Method 8260, PAHs by EPA Method 8270E SIM, Pesticides by EPA Method 8081, PCBs by EPA Method 8082, dissolved RCRA metals including hexavalent chromium by EPA Method 6010B, and mercury by EPA Method 7471A on a standard turn- around time basis. Groundwater elevation data is presented in **Table 13**. A groundwater potentiometric surface map created using the September 4, 2024, gauging data is included as **Figure 8**. Dissolved-phase analytical results for groundwater are presented in **Tables 14** through **17**, and *Groundwater De Minimis* Standard exceedances are graphically displayed in **Figures 10** and **11**. Laboratory analytical results are provided in **Appendix B**.

3.4 Soil-Gas/Sub-Slab Vapor Monitoring Point Installation and Sampling

In an effort to assess the presence of vapor-phase VOCs potentially migrating from Site constituents of concern (COCs) in Site soil and groundwater, two (2) soil-gas and one (1) sub-slab vapor monitoring points (VMPs) were installed during Site Assessment activities. One (1) soil-gas VMP was installed in the vicinity of the former 1,000-gallon capacity gasoline UST basin, one (1) soil-gas VMP was installed in the area of the former incinerator ash disposal, and one (1) sub-slab VMP was installed in the storage facility adjacent to the former UST area. These VMPs were designated as VMP-1 through VMP-3, respectively. The VMPs were installed to a depth of five (5) feet b.g.s. utilizing a stainless-steel hand auger. The VMPs were constructed of one-inch diameter, Schedule 40 PVC with approximately five (5) feet of 0.010-inch slotted well screen. The well screen was installed such that the subsurface silt/sand layer within the vadose zone was intercepted. The wells included a sand filter pack from total depth to approximately one (1) foot b.g.s., a six (6) inch bentonite seal, a grouted interval above the bentonite seal, and a flush-mounted manway for access to the VMPs. The VMPs were equipped with locking caps that were retrofitted with sampling ports for monitoring vacuum pressures and VOCs concentrations during corrective measures implementation.

Soil-gas and sub-slab vapor samples were collected from VMP-1 through VMP-3 on October 9, 2024, to provide information on the presence/absence of vapor-phase COPCs in the subsurface beneath the GVMC facility. Additionally, an indoor air sample was collected from the storage facility during sampling activities. The indoor air sample was designated as IA. Prior to sample collection, each VMP was purged and tested for atmospheric air leaks as specified in **Section 3.3** of the project-specific SAWP approved by WVDEP.

Note that soil gas and indoor air sampling was conducted per the WVDEP approved SAWP as well as WVDEP SOPs OER-130 and OER-131. Soil vapor, sub-slab, and indoor air samples were collected using six (6) liter Summa canisters with a control regulator that filled the Summa canisters in an eight (8) hour period. The rate of flow used to collect the vapor sample was set at 12.5 mL/min. Following completion of soil-gas, sub-slab, and indoor air sampling, the samples were logged on an appropriate chain-of-custody form and submitted to Pace National in Mt. Juliet, Tennessee for analysis. Soil-gas, sub-slab, and indoor air samples were analyzed for the reduced list VOCs by EPA Method TO-15. Vapor-phase analytical results for soil gas are presented in

Table 18. Indoor air analytical results are presented in **Table 19**. Positive detections are graphically displayed in **Figure 12**.

4.0 QUALITY ASSURANCE/QUALITY CONTROL

4.1 Decontamination Procedures

The decontamination process was designed to remove any contamination acquired in the exclusion zone and to keep the spread of contaminated materials from entering the support (clean) area. Care was exercised to ensure that contaminants were removed from personnel and equipment before the personnel or equipment leaves the site.

4.1.1 Personnel Decontamination

Dry decontamination is the preferred method for KEMRON. This method of decontamination involves the removal and containment of contaminated layers of personal protective clothing. Boots were decontaminated by using a wet method “boot wash” station located at the contamination reduction zone (CRZ). The boot wash was comprised of two large buckets. The first bucket was filled with a water and soap solution and a brush to remove gross contamination. The second bucket was a rinse. Once completed, personnel exited the CRZ free of contamination.

An emergency eyewash was located at the CRZ in the event that an emergency decontamination is needed. Site personnel were allowed to assist with the emergency decontamination only if they were protected from exposure.

4.1.2 Equipment Decontamination

Hollow-stem augers used in the drilling process were decontaminated before initial use and after use using a high-pressure wash. Decontamination of sampling equipment (i.e. split-spoon samplers, Dual Tube samplers, interface probes, water level indicators, downhole components of water quality instruments, etc.) was achieved using a distilled water/Alconox wash followed by a distilled water rinse. All site-generated decontamination water was collected, placed in a properly labeled 55-gallon drum, and temporarily staged on-site pending off-site disposal.

4.2 QA/QC Sampling

4.2.1 Quality Objectives and Criteria for Measurement Data

Data collected from this project will be used to:

- Ascertain if there is a threat to public health or the environment;
- Locate and identify potential sources of contamination;
- Formulate remediation strategies, and estimate remediation costs;
- Determine treatment and disposal options; and
- Verify attainment of clean-up goals.

When conducting this investigation, all measurements were made so that results are reflective of the medium and conditions being measured. Prior to all environmental measurement activities, site-specific data quality objectives (DQOs) and measurement performance criteria were determined. The DQOs are qualitative and quantitative statements that specified the quality of the environmental monitoring data required to support decisions and were predicated in accordance with the anticipated

end uses of the data which were collected. The DQOs are applicable to phases and aspects of the data collection process including site investigation, design, construction, and remedy operations. The level of detail and data quality needed varied with the intended use of the data.
The DQOs are typically assessed by evaluating the Precision, Accuracy, Representativeness, Completeness, Comparability, and Sensitivity (PARCCS) of all aspects of the data collection process. PARCCS is defined as:

- Precision; a measure of the reproducibility of analyses under a given set of conditions;
- Accuracy; a measure of the bias that exists in a measurement system;
- Representativeness; the degree of sampling data that accurately and precisely depicts the selected characteristics;
- Completeness; the measure of the amount of valid data obtained from a measurement system compared to the amount that was expected to be obtained under “normal” conditions;
- Comparability; the degree of confidence with which one data set can be compared to another; and;
- Sensitivity refers to the ability of an analytical procedure to detect and quantify an analyte at a given concentrations and is related to the Reporting Limit (RL) and/or method detection limit (MDL).

KEMRON compared all data received to the minimum required PARCCS as provided in the WVDEP-OER Brownfields Section QAPrP Section 3.2.8.2. The relevant goals for PARCCS are provided in Section 4.2.2, below.

4.2.2 Quality Assurance Objectives

DQOs define the total uncertainty in the data that is acceptable for each specific activity during the investigation. This uncertainty includes both sampling error and analytical error. The data collected during the course of the investigation were used to determine the extent and boundaries of environmental impacts and the potential applicability of remedial technologies. The parameters that were used to specify data quality requirements and to evaluate the analytical system performance are precision, accuracy, representativeness, completeness, and comparability.

The objective with respect to the field investigation is to maximize the confidence in the data in terms of precision and accuracy. Section 4.2.6 presents the frequency with which trip blanks, field duplicates, field blanks, and matrix spikes were collected such that a specific degree of precision and accuracy can be calculated. The data quality objective for field duplicates is to achieve precision equal to no greater than that specified in the analytical methods and the laboratory quality assurance plan.

Precision was calculated as the relative percent difference (RPD) if there are only two analytical points and as relative standard deviation (RSD) if there are more than two analytical points. The submission of blanks monitored potential contaminants introduced during the sampling, preservation, handling, shipping, and the analytical processes. Through the submission of field Quality Control (QC) samples and review of resultant analytical data, the distinction can be made between laboratory problems, sampling technique, and sample matrix variability. For the purposes of the site investigation activities conducted in July, August, and September, precision could not be determined for all analytes in soil and groundwater because the primary and replicate (MS/MSD) results were either reported as non-detects (ND) or as a ND and the other as estimated

(J). In accordance with QA/QC guidance, RPD is not applicable when one (1) or both results are below detection limits.

Accuracy was determined by reviewing the percent recovery for the laboratory control sample (LCS) for metals. A review of the analytical data indicate that the percent recovery achieved for metals in the LCS ranged from 89% for selenium up to 101% for silver. All other metals achieved percent recoveries between these values. As none of these values were below 80% or above 120%, it has been determined that the analytical data is accurate. Additional information regarding validity of data is provided in the Data Validation Report which will be provided under separate cover.

To ensure sample representativeness, all samples were collected in accordance with EPA-recommended procedures for sample collection and preservation and EPA-recommended holding times specified in "Test Methods for Evaluating Solid Wastes" (SW-846). Every effort was made to obtain complete and valid data for all sampling points. In order to establish a degree of comparability such that observations and conclusions can be directly compared with all historical data, KEMRON used standardized methods of field analysis, sample collection, and preservation, as well as adhering to established holding time requirements.

Comparability of the analytical results was maintained throughout the investigation conducted in July, August, and September 2024. For this project, the sampling design, collection methods, and analytical procedures were consistent with those employed during the Site Assessment conducted by Bridge House in November 2022. Soil and groundwater samples were collected following standard field protocols, and laboratory analyses were performed using the same or equivalent EPA SW-846 methods (e.g., EPA 6010D for metals, EPA 8270D for SVOCs). Because of this methodological consistency, results generated during the 2024 investigation are directly comparable to those obtained during the 2022 Site Assessment. This ensures that data from both events can be used together to support reliable evaluation of site conditions and to inform remedial decision-making.

It is important to note that KEMRON had proposed to install 15 soil borings in the former ash disposal area and eight (8) soil borings across the remainder of the Site to ensure delineation of potential soil contaminants. During soil boring installation activities, due to the terrain in the area of the former ash disposal area, six (6) soil borings were installed in the former ash disposal area and nine (9) soil borings were installed across the remainder of the Site. KEMRON believes the data obtained during the Site Investigation activities is adequate. Therefore, KEMRON determined that completeness of sampling has been achieved.

Completeness was evaluated as the proportion of valid measurements obtained, consistent with the SAWP. Data were considered valid unless rejected during validation (e.g., “R” qualifier); ND, and “J” estimated results were considered usable unless rejected. Based on the EDDs, analyte-level completeness was **98.9%**. At the sample level, **100%** of collected primary samples contained at least one valid result and **89.6%** of primary samples had all reported analytes valid. These values exceed the project’s minimum completeness objective of **90%**. As far as field completeness, the SAWP specified installation of 15 borings in the former ash disposal area and 8 borings across the remainder of the site (total 23). Due to terrain and access constraints within portions of the ash area, six (6) borings were installed there (40% completeness). In the remainder of the site, nine (9) borings were installed (112.5%; reported as 100% per standard practice of capping oversampling). Overall soil-boring completeness was 65.2% (15 of 23). Despite reduced completeness in the ash area, soil borings were sited to maximize representativeness and to target locations with the highest potential for ash-related impacts. Combined with high laboratory

completeness and data usability, the dataset is adequate to support risk-based decisions for this phase.

During Site Assessment activities at the GVMC facility, KEMRON retained Pace located in Beaver, West Virginia, and Greensburg, Pennsylvania, and Pace National located in Mount Juliet, Tennessee, for laboratory analytical services. Pace was expected to document all analytical problems encountered during the course of the investigation. Communication was maintained with the laboratory so that, should analytical problems be encountered, ample opportunity was available to recollect these samples, if necessary. In the event QC problems were detected by the lab (e.g., calibration standardization, machine failure, or detections in method blanks); we were notified prior to analysis of the samples. No samples that exceeded EPA holding times were analyzed without prior authorization. If spike recoveries were outside the EPA specified range, then a quality control check sample containing the spiked analyte that failed was prepared and analyzed to determine matrix interferences.

The overall data management objective was to provide a complete database with a high degree of confidence through the use of a phased approach of sampling, analysis, data assessment (data review), data qualification and feedback.

4.2.3 Sampling Procedures

Prior to initiating any groundwater sampling activities, the depth to water was measured in groundwater monitoring wells MW-1 through MW-11 to the nearest one hundredth of a foot with an electronic water level indicator or oil/water interface probe.

After gauging the wells, each well was purged until field readings had stabilized per EPA Low-Flow Minimal Drawdown Sampling Procedures as well as WVDEP SOP OER-110. Following each purging event, groundwater samples were collected from each well using a low-flow pump and disposable tubing in accordance with the procedures outlined in the SAWP. Groundwater samples were then transferred to the appropriate laboratory-supplied sample containers, placed in an ice-filled cooler with the appropriate chain-of custody documentation and submitted to Pace.

All dimensions, volumes, and calculations were recorded. All purge water was containerized in properly labeled, 55-gallon drums and temporarily staged on-site pending off-site disposal/treatment.

Groundwater monitoring wells were purged using submersible bladder pumps and low-flow sampling protocols. Samples were collected within two (2) hours of well evacuation. Aqueous samples collected for VOC analysis were obtained in a manner that avoids aeration of the sample by using low-flow purge rates, filling the sample vials completely, and making sure no bubbles are present in the vials upon sealing the lid. Once groundwater samples were collected, they were immediately prepared, preserved, and stored at no more than 4° Celsius to prevent changes in sample chemistry.

Field measurements (pH, specific conductance, and temperature) were obtained for groundwater samples immediately following sample collection. A grab sample from the same sample stream was collected in a beaker and used to obtain measurements.

Soil samples were collected directly from hand augers and the acetate sleeve of the Geoprobe® Dual-Tube sampler. Soil aliquots were collected from various sections of the sampled interval to

assure that a representative sample of the zone of interest is collected. Soil samples were field screened for the presence of VOCs using a PID and the results documented in the field logbook.

All samples were collected in properly labeled sample containers with all necessary preservatives added. Pace's analytical laboratory supplied all necessary sample containers and preservatives. Samples requiring refrigeration for preservation were immediately transferred to coolers packed with ice or ice packs and maintained at <4° Celsius. Proper chain-of-custody documentation was maintained as discussed in Section 4.2.3.

4.2.4 Sample Custody

The primary objective of these sample custody procedures was to create an accurate written record that could be used to trace the possession and handling of all samples from the moment of their collection, through analysis, until their final disposition. Chain-of-Custody documentation for samples collected during this investigation was maintained by the Project Manager or field team collecting the sample. The field team was responsible for documenting each sample transfer and maintaining custody of all samples until they were shipped to the laboratory.

Pace's analytical laboratory supplied all necessary sample containers and preservatives. Custody of the sample bottles were maintained by the Project Manager who will verify the integrity of the bottles and ensure that the proper bottles have been assigned to the task to be conducted.

A self-adhesive sample label was affixed to each container before sample collection. The sample label contained the following information:

- Job Name;
- Sample identification - place of sampling;
- Date and time collected;
- Sampler's initials;
- Testing required; and
- Preservatives added.

Immediately after sample collection, each sample bottle was sealed and packed in a cooler prepared for pickup by the laboratory. The samples were properly relinquished on the field Chain-of-Custody record by the field team. These record forms were sealed in a re-sealable plastic bag to protect them against moisture.

Upon receipt of the samples, the laboratory stored the samples in a secure sample storage cooler maintained at 4°C and maintained custody until the sample was assigned to an analyst for analysis. Custody was maintained until disposal of the analyzed samples.

The laboratory noted any damaged sample containers or discrepancies between the sample label and information on the field Chain-of-Custody record and documented any discrepancies. This information was communicated to the Program Manager within 48 hours so that proper action could be taken. The Chain-of-Custody form were signed by both the relinquishing and receiving parties each time the sample changes hands, and the reason for transfer indicated. All chain of custody information was supplied with the data packages for inclusion in the document control file. This information will be retained for a period of at least three (3) years.

4.2.5 Calibration Procedures and Frequency

Laboratory calibration and frequency are specified for both organic and inorganic analyses in KEMRON's Quality Assurance Project Plan.

The frequency of field calibration procedure will, at a minimum, include the following:

- The pH and specific conductance meters were calibrated a minimum of once daily and documented in the calibrator's field book. Calibration was checked as necessary to ensure proper measurements are taken;
- pH meters were calibrated using specific techniques according to the manufacturer's instructions and two (2) standard buffer solutions (either pH 4 and 7, or 7 and 10) obtained from chemical supply houses;
- Temperature measurements were performed at the time of the sample collection using a field thermometer and recorded to $\pm$ 0.2°C;
- The specific conductance meter was calibrated using a potassium chloride (KCl) solution according to manufacturer specifications; and
- The organic vapor meter was calibrated daily in accordance with its operating manual to ensure total volatile organic readings are accurate.

4.2.6 Analytical Procedures

Only EPA -approved analytical procedures were used for the specific parameters of concern at the GVMC facility. Analytical procedures were those found in "Test Methods for Evaluating Solid Wastes," 3rd Edition, November 1986 (SW-846). Specific analytical parameters are summarized in Sections 3.1 through 3.4 herein.

4.2.7 Internal Quality Control Checks

The laboratory's control checks are included in KEMRON's Quality Assurance Project Plan. Field Internal Quality control checks were utilized during this investigation through the use of the following:

Travel Blanks - These blanks were prepared at the lab and consisted of ultra-pure, deionized water in the sample container with any preservatives required for that analysis. These blanks accompanied the samplers during the sampling process and served as QC check on container cleanliness and external contamination. *Two (2) travel blanks* were analyzed for VOCs during 2024 Site Assessment activities.

Equipment Rinsate Blank - Equipment rinsate blanks were collected to ensure that sampling equipment is clean and that the potential for cross contamination was minimized by the equipment decontamination procedures. These blanks were collected by decontaminating the sampling device and then pouring de-ionized water over the device. This rinsate water was collected into a clean stainless-steel bowl and then transferred to the appropriate sample containers. An equipment rinsate blank were collected during each major sampling event to include soil and

groundwater sampling. *Three (3) equipment rinsate blanks* were collected during 2024 Site Assessment activities.

Duplicate Samples - Blind duplicate samples were collected to allow determination of analytical precision. One (1) duplicate sample was collected for every 20 samples collected per media and was submitted for the required analyses. *Six (6) duplicate samples* were collected during 2024 Site Assessment activities.

Matrix Spike Sample - Matrix spike/matrix spike duplicates (MS/MSD) samples were submitted as further QC checks. These samples were spiked at the laboratory. These were collected at the frequency of one (1) MS and MSD for every 20 field samples (not including travel blanks, field blanks, and blind duplicates). This allowed accuracy to be determined by the recovery rates of compounds (the matrix spike and/or surrogate spike compounds defined in the analytical methods). Precision was also assessed by comparison of matrix spike duplicate recoveries. The purpose of these laboratory spikes is to monitor any possible matrix effects specific to samples collected from the site. The addition of known concentrations of compounds/constituents into the sample also monitors extraction/digestion efficiency.

Matrix spike/matrix spike duplicate sample aliquots were acquired for samples by providing triple the necessary sample volume for the location identified for QC samples. The specific sample locations that were used for matrix spikes and blind duplicates was chosen by the Project Manager. *Five (5) MS/MSD samples* were analyzed during 2024 Site Assessment activities.

4.3 Data Validation

Data validation information will be provided in a stand-alone Data Validation Report.

5.0 ASSESSMENT RESULTS

5.1 Site Geology

Based on lithologies recorded during soil boring advancement and reflected on soil boring logs (**Appendix A**) completed for this investigation, stratigraphy at the GVMC facility generally consists of topsoil, asphalt, or gravel at the surface which transitions to fill material comprised of silt, gravel, and some clay from 0.5 to 2.5 to 3.5 feet b.g.s., clays with some sandy clays and clayey silts from between 2.5 to 3.5 feet b.g.s. to between 10 feet b.g.s. and 22 feet b.g.s, and weathered limestone bedrock with some sand and cobble to refusal, which was generally encountered between 10 and 24 feet b.g.s. Groundwater was encountered in soil borings SB-1 through SB-3, SB-6, SB-8, SB-11, and SB-12 between approximately eight (8) feet b.g.s. (SB-2) and 22 feet b.g.s.(SB-1).

5.2 Site Hydrogeology

Water levels gauged in monitoring wells MW-1 through MW-11 on September 4, 2024, indicate groundwater occurs at depths ranging from approximately 7.78 to 16.42 feet b.g.s. Note that monitoring wells MW-1 and MW-2 were dry during gauging activities. According to the potentiometric surface map developed using the September 4, 2024, gauging data, groundwater beneath the GVMC facility flows north-northwest and northeast with an approximate average hydraulic gradient of 0.0659 feet per foot (ft/ft). A Groundwater potentiometric surface map created using the September 4, 2024, gauging data is included as **Figure 8**.

No known potable water wells are located within 300 feet of the GVMC facility.

5.3 Adsorbed-Phase (Surface Soil) Analytical Results

Adsorbed-phase analytical results for surface soil samples collected during 2024 Site Assessment activities at the GVMC facility are summarized in **Tables 3** through **7** and depicted in **Figure 6** (Metals) and **Figure 7** (PAHs). Copies of the soil laboratory analytical reports are provided in **Appendix B**.

5.3.1 Metals

Laboratory analytical results for surface soil samples collected from the GVMC facility in July and August 2024 indicate that the following RCRA metals constituents were detected at concentrations that exceeded the *Residential Soil De Minimis* Standards and/or West Virginia Natural Background Values:

- Arsenic was detected at concentrations that exceeded the *Residential Soil De Minimis* Standard (0.68 mg/Kg) in surface soil samples collected from SS-1 (1-2 feet) 6.4 mg/Kg, SS-2 (1-2 feet) 10.1 mg/Kg, SS-3 (1-2 feet) 8.5 mg/Kg, SS-4 (0-1 feet) 7.8 mg/Kg, SS-5 (0-1 feet) 8.1 mg/Kg, SS-6 (1-2 feet) 7.1 mg/Kg, SS-7 (1-2 feet) 5.7J mg/Kg, SS-8 (1-2 feet) 3.9J mg/Kg, SS-9 (1-2 feet) 5.4J mg/Kg, SS-10 (1-2 feet) 8.8 mg/Kg, SS-11 (1-2 feet) 5.5J mg/Kg, SS-12 (1-2 feet) 9.8J mg/Kg, SS-12 (1-2 feet) (Dup) 15.9 mg/Kg, SS-13 (1-2 feet) 5.1J mg/Kg, SS-14 (1-2 feet) 11.1 mg/Kg, and SS-15 (1-2 feet) 15.2 mg/Kg. It is important to note that all of these arsenic results with the exception of SS-12 (Dup) and SS-15 are below the West Virginia Natural Background Value (13.1 mg/Kg);
- Selenium was detected at concentrations that exceeded the West Virginia Natural Background Value (0.8 mg/Kg) in surface soil samples collected from SS-11 (1-2 feet) 1.3J mg/Kg, SS-13 (1-2 feet) 1.3J mg/Kg, SS-14 (1-2 feet) 1.3J mg/Kg, and SS-15 (1-2 feet) 1.6J mg/Kg; and
- Mercury was detected at concentrations that exceeded the West Virginia Natural Background Value (0.09 mg/Kg) in the surface soil samples collected from SS-2 (1-2 feet) 0.12 mg/Kg, SS-9 (1-2 feet) 0.11 mg/Kg, SS-12 (1-2 feet) 0.15 mg/Kg, SS-13 (1-2 feet) 0.11 mg/Kg, SS-14 (1-2 feet) 0.16 mg/Kg, and SS-15 (1-2 feet) 0.091 mg/Kg.

5.3.2 VOCs

Laboratory analytical results for surface soil samples collected from the GVMC facility in July and August 2024 indicate that no VOC constituents were detected at concentrations that exceeded applicable West Virginia *Residential* and/or *Industrial Soil De Minimis* Standards.

5.3.3 PAHs

Laboratory analytical results for surface soil samples collected from the GVMC facility in July and August 2024 indicate that benzo(a)pyrene and benzo(b)fluoranthene were detected at concentrations that exceeded the applicable West Virginia *Residential Soil De Minimis* Standards (0.11 mg/Kg and 1.1 mg/Kg, respectively) in the surface soil sample collected from SS-10 (1-2 feet) 0.607 mg/Kg and 1.23 mg/Kg, respectively.

5.3.4 SVOCs

Laboratory analytical results for surface soil samples collected from the GVMC facility in July and August 2024 indicate that no SVOC constituents were detected at concentrations that exceeded applicable West Virginia *Residential* or *Industrial Soil De Minimis* Standards. It should be noted that Laboratory Report Limits for numerous SVOC constituents exceeded the applicable West Virginia *Residential De Minimis* Standards.

5.3.5 Dioxins and Furans

Laboratory analytical results for surface soil samples collected from the GVMC facility in July and August 2024 indicate that total 2,3,7,8-TCDD Equivalent was detected at a concentration that exceeded the West Virginia *Residential Soil De Minimis* Standard (5.2 mg/Kg) in the surface soil sample collected from SS-5 (1-2 feet) 17.271 mg/Kg.

5.4 Adsorbed-Phase (Subsurface Soil) Analytical Results

Adsorbed-phase analytical results for subsurface soil samples collected during 2024 Site Assessment activities at the GVMC facility are summarized in **Tables 8** through **12** and depicted in **Figure 6** (Metals) and **Figure 7** (SVOCs). Copies of the soil laboratory analytical reports are provided in **Appendix B**.

5.4.1 Metals

Laboratory analytical results for subsurface soil samples collected from the GVMC facility in July and August 2024 indicate that the following RCRA metals constituents were detected at concentrations that exceeded the *Residential Soil De Minimis* Standards and/or West Virginia Natural Background Values:

- Arsenic was detected at concentrations that exceeded the *Residential Soil De Minimis* Standard (0.68 mg/Kg) in subsurface soil samples collected from SB-1 (9-10 feet) 3.9J mg/Kg, SB-2 (7-8 feet) 9.3 mg/Kg, SB-3 (9-10 feet) 28.7 mg/Kg, SB-4 (6-7 feet) 14.2 mg/Kg, SB-5 (7-8 feet) 4.3J mg/Kg, SB-6 (7-8 feet) 18.5 mg/Kg, SB-7 (7-8 feet) 20.2 mg/Kg, SB-8 (6-7 feet) 6.4 mg/Kg, SB-10 (7-8 feet) 13.2 mg/Kg, SB-11 (7-8 feet) 5.5J mg/Kg, SB-12 (7-8 feet) 11.5 mg/Kg, SB-13 (7-8 feet) 6.1J mg/Kg, SB-14 (7-8 feet) 7.1 mg/Kg, and SB-15 (7-8 feet) 8.6 mg/Kg. It is important to note that all of these arsenic results with the exception of SB-3, SB-4, SB-6, SB-7, and SB-10 are below the West Virginia Natural Background Value (13.1 mg/Kg);
- Cadmium was detected at concentrations that exceeded the West Virginia Natural Background Value (0.5 mg/Kg) in the subsurface soil samples collected from SB-3 (9-10 feet) 0.72J mg/Kg, SB-5 (6-7 feet) 2.4 mg/Kg, SB-7 (7-8 feet) 0.83J mg/Kg, and SB-9 (7-8 feet) 0.83J mg/Kg;
- Chromium was detected at a concentration that exceeded the West Virginia Natural Background Value (57.4 mg/Kg) in the subsurface soil sample collected from SB-12 Dup (7-8 feet) 60.3 mg/Kg;
- Selenium was detected at concentrations that exceeded the West Virginia Natural Background Value (0.8 mg/Kg) in subsurface soil samples collected from SB-2 (7-8 feet) 1.6J mg/Kg, SB-10 (7-8 feet) 3.3J mg/Kg, SB-11 (7-8 feet) 1.2J mg/Kg, SB-12 (7-8 feet)

1.5J mg/Kg, SB-13 (7-8 feet) 1.3J mg/Kg, SB-14 (7-8 feet) 1.4J mg/Kg, and SB-15 (7-8 feet) 1.6J mg/Kg; and

- Mercury was detected at concentrations that exceeded the West Virginia Natural Background Value (0.09 mg/Kg) in the subsurface soil samples collected from SB-2 (7-8 feet) 0.11 mg/Kg, SB-12 Dup (7-8 feet) 0.22 mg/Kg, SB-13 (7-8 feet) 0.21 mg/Kg, and SB-14 (7-8 feet) 0.11 mg/Kg.

5.4.2 VOCs

Laboratory analytical results for subsurface soil samples collected from the GVMC facility in July and August 2024 indicate that no VOC constituents were detected at concentrations that exceeded applicable West Virginia *Residential* and/or *Industrial Soil De Minimis* Standards.

5.4.3 PAHs

Laboratory analytical results for subsurface soil samples collected from the GVMC facility in July and August 2024 indicate that no PAH constituents were detected at concentrations that exceeded applicable West Virginia *Residential* and/or *Industrial Soil De Minimis* Standards.

5.4.4 SVOCs

Laboratory analytical results for subsurface soil samples collected from the GVMC facility in July and August 2024 indicate that no SVOC constituents were detected at concentrations that exceeded applicable West Virginia *Residential* or *Industrial Soil De Minimis* Standards. It should be noted that Laboratory Report Limits for numerous SVOC constituents exceeded the applicable West Virginia *Residential De Minimis* Standards.

5.4.5 Dioxins and Furans

Laboratory analytical results for subsurface soil samples collected from the GVMC facility in July and August 2024 indicate that no dioxin and furan constituents were detected at concentrations that exceeded applicable West Virginia *Residential* and/or *Industrial Soil De Minimis* Standards.

5.5 Dissolved-Phase Analytical Results

Dissolved-phase analytical results for groundwater samples collected during the groundwater sampling events on September 4 through 6, 2024, are summarized in **Tables 14** through **17** and depicted in **Figure 9** (VOCs), **Figure 10** (PAHs), and **Figure 11** (SVOCs). Copies of the groundwater laboratory analytical reports are provided in **Appendix B**.

5.5.1 Metals

Laboratory analytical results for groundwater samples collected on September 4 through 6, 2024, indicate that no positive detected RCRA metals concentrations exceeded applicable West Virginia *Groundwater De Minimis* Standards, or *Residential* or *Industrial EPA Vapor Intrusion Screening Levels*.

5.5.2 VOCs

Laboratory analytical results for groundwater collected from the GVMC facility on September 4 through 6, 2024, indicate that that the following VOC constituents were detected at concentrations that exceeded applicable *Groundwater De Minimis* Standards or EPA *Residential or Industrial Vapor Intrusion Screening Levels*. It should be noted that Laboratory Report Limits for numerous VOC constituents exceeded the applicable *Groundwater De Minimis* Standards and EPA *Residential Vapor Intrusion Screening Levels*.

- Benzene was detected at concentrations that exceeded the *Groundwater De Minimis* Standard (5 µg/L) in groundwater samples collected from monitoring wells MW-4 (55.5 µg/L) and MW-6 (13.1 µg/L);
- Chloroform was detected at concentrations that exceeded the EPA *Residential Vapor Intrusion Screening Level* (1.33 µg/L) in groundwater samples collected from monitoring wells MW-3 (10.4 µg/L), MW-3 (Dup) (10.7 µg/L), MW-5 (16.2 µg/L), and MW-6 (4.8 µg/L);
- Ethylbenzene was detected at concentrations that exceeded EPA *Industrial Vapor Intrusion Screening Level* (299 µg/L) in the groundwater sample collected from monitoring well MW-4 (424 µg/L) and at a concentration that exceeded the EPA *Residential Vapor Intrusion Screening Level* (6.85 µg/L) in the groundwater sample collected from monitoring well MW-6 (107 µg/L);
- Naphthalene was detected at concentrations that exceeded both the *Groundwater De Minimis* Standard (0.12 µg/L) and the EPA *Residential Vapor Intrusion Screening Level* (10.9 µg/L) in groundwater samples collected from monitoring wells MW-4 (96.9 µg/L) and MW-6 (72.2 µg/L);
- 1,2,4-Trimethylbenzene was detected at concentrations that exceeded the *Groundwater De Minimis* Standard (56 µg/L) in groundwater samples collected from monitoring wells MW-4 (938 µg/L) and MW-6 (445 µg/L). Additionally, the groundwater sample collected from MW-4 (938 µg/L) also exceeded the EPA *Residential Vapor Intrusion Screening Level* (544 µg/L);
- 1,3,5-Trimethylbenzene was detected at concentrations that exceeded the *Groundwater De Minimis* Standard (60 µg/L) in groundwater samples collected from monitoring wells MW-4 (335 µg/L) and MW-6 (148 µg/L); and
- Total xylenes was detected at a concentration that exceeded the EPA *Residential Vapor Intrusion Screening Level* (759 µg/L) in the groundwater sample collected from monitoring well MW-4 (1,080 µg/L).

5.5.3 PAHs

Laboratory analytical results for groundwater collected from the GVMC facility on September 4 through 6, 2024, indicate that naphthalene was detected at concentrations that exceeded the *Groundwater De Minimis* Standard (0.12 µg/L) and the EPA *Residential Vapor Intrusion Screening Level* (10.9 µg/L) in groundwater samples collected from monitoring wells MW-4 (20.1 µg/L) and MW-6 (59.5 µg/L). It should be noted that Laboratory Report Limits for numerous PAH constituents exceeded the applicable *Groundwater De Minimis* Standards.

5.5.4 SVOCs

Laboratory analytical results for groundwater collected from the GVMC facility on September 4 through 6, 2024, indicate that the following SVOC concentrations were detected at concentrations that exceeded applicable *Groundwater De Minimis* Standards and/or *EPA Residential Vapor Intrusion Screening Levels*. It should be noted that Laboratory Report Limits for numerous SVOC constituents exceeded the applicable *Groundwater De Minimis* Standards.

- Bis(2-chloroethyl)ether was detected at a concentration that exceeded the *Groundwater De Minimis* Standard (0.014 µg/L) in the groundwater sample collected from monitoring well MW-6 (11.7 µg/L);
- 1-Methylnaphthalene was detected at concentrations that exceeded the *Groundwater De Minimis* Standard (1.1 µg/L) in groundwater samples collected from monitoring wells MW-4 (12.5 µg/L) and MW-6 (30.5 µg/L);
- 2-Methylnaphthalene was detected at a concentration that exceeded the *Groundwater De Minimis* Standard (36 µg/L) in the groundwater sample collected from monitoring well MW-6 (49 µg/L); and
- Naphthalene was detected at concentrations that exceeded both the *Groundwater De Minimis* Standard (0.12 µg/L) and the EPA *Residential Vapor Intrusion Screening Level* (10.9 µg/L) in groundwater samples collected from monitoring wells MW-4 (30.6 µg/L) and MW-6 (51.9 µg/L).

5.6 Vapor-Phase and Indoor Air Analytical Results

Laboratory analytical results for soil-gas and sub-slab vapor and indoor air collected from the GVMC facility on October 9, 2024 indicate that there were no exceedances of applicable EPA *Residential* or *Industrial Soil Gas VISLs.* However, the vapor phase benzene concentration collected from the indoor air sample (IA – 0.38 J micrograms per cubic meter (µg/m^3)) exceeded the *Residential Target Indoor Air Concentration* (0.36 µg/m^3). Vapor-phase analytical results for soil-gas and sub-slab vapor and indoor air samples collected during Site Investigation activities at the GVMC facility are summarized in **Tables 18** and **19** and depicted in **Figure 12**. Copies of the vapor phase laboratory analytical report is provided in **Appendix B**.

6.0 SELECTION OF COCS

6.1 Adsorbed-Phase (Surface Soil) COCs

The following adsorbed-phase (surface soil) COCs were selected for further consideration as part of upcoming *Residual Human Health and Ecological Risk Assessment* (RHHERA) activities based on laboratory analytical results from site assessment activities conducted at the GVMC facility that indicate COCs were detected at concentrations that exceeded the applicable West Virginia *Industrial* or *Residential Soil De Minimis* Standards or Natural Background Values:

<u>Metals</u>

Arsenic.

VOCs

No surface soil VOCs constituents were selected for further consideration.

PAHs

Benzo(a)pyrene.

SVOCs

Benzo(a)pyrene.

Determination of adsorbed-phase (surface soil) COPCs can be found in **Table 20**.

6.2 Adsorbed-Phase (Subsurface Soil) COCs

The following adsorbed-phase (subsurface soil) COCs were selected for further consideration as part of upcoming *RHHERA* activities based on laboratory analytical results that indicate COCs were detected at concentrations that exceeded the applicable West Virginia *Industrial* or *Residential Soil De Minimis* Standards or Natural Background Values:

Metals

Arsenic.

VOCs

No subsurface soil VOC constituents were selected for further consideration.

PAHs

No subsurface soil PAH constituents were selected for further consideration.

SVOCs

No subsurface soil SVOC constituents were selected for further consideration.

Determination of adsorbed-phase (subsurface soil) COPCs can be found in **Table 21**.

6.3 Dissolved-Phase COCs

The following dissolved-phase COCs were selected for further consideration as part of upcoming *RHHERA* activities based on laboratory analytical results that indicate COCs were detected at concentrations that exceeded the applicable *Groundwater De Minimis* Standards, or EPA *Residential* or *Industrial Vapor Intrusion Screening Levels*:

Metals

No dissolved-phase metals constituents were selected for further consideration.

VOCs

Benzene, chloroform, ethylbenzene, naphthalene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, and total xylenes.

PAHs

Naphthalene.

SVOCs

Bis(2-chloroethyl)ether, 1-Methylnaphthalene, 2-Methylnaphthalene, and naphthalene.

Determination of dissolved-phase COPCs can be found in **Table 22**.

6.4 Soil-Gas Vapor-Phase and Indoor Air COCs

Note that benzene exceeded the *Residential Target Indoor Air Concentration*; however, the detected concentration of benzene in indoor air is in line with what is generally found across the state of West Virginia at background concentrations. Furthermore, there is no evidence of a connection between subsurface concentrations to get into indoor air. Therefore, no vapor phase or indoor air COPCs were selected for further consideration. Determination of vapor-phase COPCs can be found in **Table 23**.

7.0 CONCEPTUAL SITE MODEL FOR POTENTIAL HUMAN EXPOSURE

The Conceptual Site Model (CSM) summarizes the processes by which COCs may impact potentially exposed populations and facilitates a consistent and comprehensive evaluation of risks by creating a framework for identifying the paths by which humans and the environment may be impacted by chemicals in environmental media. The CSM developed for current and future land uses at the GVMC facility is presented in **Figure 13**. The elements necessary to construct a complete exposure pathway and develop the conceptual model include:

1. Sources and COCs;
2. Transport mechanisms;
3. Exposure routes; and
4. Receptors.

An exposure pathway describes the mechanism by which an individual is exposed to COCs in, or originating from a source area. In order for an exposure pathway to be complete, there must be a chemical source/release, a point of contact by a receptor with the environmental medium, and an exposure route by which contact can occur. If the point of exposure is different from the source location, a transport medium is required.

As shown in the CSM, the focus is on the potential for an exposure pathway to exist that would be associated with the impacted soils and groundwater at the Site.

8.0 SUMMARY

In July, August, September, and October 2024, KEMRON performed Site Assessment activities at the GVMC facility consisting of the advancement of 15 soil borings using Geoprobe® direct-push technology. Eleven of the soil borings were subsequently completed as groundwater monitoring wells MW-1 through MW-11.

Based on the findings of 2024 Site Assessment activities completed for the GVMC, it has been determined that:

- Stratigraphy at the GVMC facility generally consists of topsoil, asphalt, or gravel at the surface which transitions to fill material comprised of silt, gravel, and some clay from 0.5 to 2.5 to 3.5 feet b.g.s., clays with some sandy clays and clayey silts from between 2.5 to 3.5 feet b.g.s. to between 10 feet b.g.s. and 22 feet b.g.s, and weathered limestone bedrock with some sand and cobble to refusal, which was generally encountered between 10 and 24 feet b.g.s. Groundwater was encountered in soil borings SB-1 through SB-3, SB-6, SB-8, SB-11, and SB-12 between approximately eight (8) feet b.g.s. (SB-2) and 22 feet b.g.s.(SB-1).;

- During the September 4, 2024, gauging event, groundwater beneath the GVMC facility flowed north-northwest and northeast with an approximate average hydraulic gradient of 0.0659 ft/ft;

- Laboratory analytical results for surface soil samples collected during 2024 Site Assessment activities indicated adsorbed-phase RCRA metals, PAHs, and Dioxins and furan COPC concentrations were detected in excess of either the *Residential De Minimis* Standards, are presumably associated with the former USTs as well as the former discarding of incinerator medical waste on the property, and will require further evaluation as part of the upcoming RHHERA;

- Laboratory analytical results for subsurface soil samples collected during 2024 Site Assessment activities indicated adsorbed-phase RCRA metals COPC concentrations were detected in excess of either the *Residential* and/or *Industrial De Minimis* Standards are presumably associated with the former USTs as well as the former discarding of incinerator medical waste on the property, and will require further evaluation as part of the upcoming RHHERA;

- Laboratory analytical results for groundwater samples collected during 2024 Site Assessment activities indicated dissolved-phase VOC, PAH, and SVOC COPC concentrations were detected in excess of West Virginia *Groundwater De Minimis* Standards and/or *EPA Residential* and/or *Industrial Vapor Intrusion Screening Levels* and will require further evaluation as part of the upcoming RHHERA.

The first step in determining whether a complete exposure pathway exists for ecological receptors was performed using the “Checklist to Determine the Applicable Remediation Standards, Part 1: Ecological Standards”, which is presented in **Appendix D**. As shown in the ecological checklist, “no further ecological evaluation is required” for the site.

Based on the results of 2024 Site Assessment activities and previous investigations at the GVMC facility, a *RHHERA* will be performed to evaluate potential risks to human and ecological receptors

from residual adsorbed and dissolved-phase COCs identified at the GVMC facility. However, prior to submittal of the *RHHERA*, a *Data Validation Report* will be provided documenting the data validated for soil, groundwater, and vapor-phase samples collected during Site Assessment activities. Upon approval of the Site Assessment Report, Revision 1.1 and the Data Validation Report by the WVDEP, KEMRON will begin the evaluation of potential risks to human and ecological receptors.

9.0 LIMITATIONS OF ENVIRONMENTAL ASSESSMENTS

KEMRON reviewed the information concerning potential impacts associated with known historic activities conducted at the GVMC facility and prepared a report in a professional manner using that degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. The information contained in the report, including its conclusions, is based on the information available to KEMRON during the investigation and upon the services described herein, which were performed within the time and budgetary requirements of GVMC. Because this report is based on available information, some of its conclusion could be different if the information upon which it is based is determined to be false, inaccurate, misleading, or contradicted by additional information.

KEMRON makes no representation concerning the legal significance of its findings or of the value of the property investigated. No third party is entitled to rely upon any information or opinions contained in this report. The report is not intended to satisfy the requirements of the National Contingency Plan.

FIGURES

TABLES

APPENDIX A

SOIL BORING LOGS

APPENDIX B

LABORATORY ANALYTICAL REPORTS

APPENDIX C

MONITORING WELL CONSTRUCTION LOGS

APPENDIX D

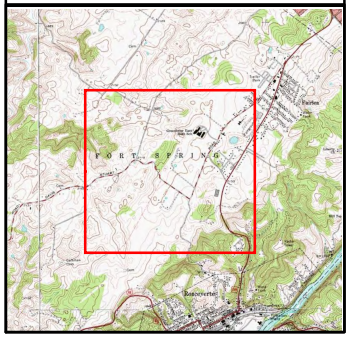
CHECKLIST TO DETERMINE THE APPLICABLE REMEDIATION STANDARDS, PART 1: ECOLOGICAL STANDARDS

FIGURES

LEGEND

Site Location

LOCATION MAP



TITLE

Site Location Map

KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services, Inc
108 Craddock Way, Suite 5
Poca, WV 25159

Greenbrier Valley Medical Center
1320 Maplewood Avenue
Ronceverte, WV 24970

Drawing Date: 06/04/24

Drawn by:	Review by:
EA	TLW

N

FIGURE: 1

Document Path: L:\GIS_Databases\WV Figures\Tymycha Holdings\Music Oupost, LLC\MXDs\Figure 1.mxd

0 25 50

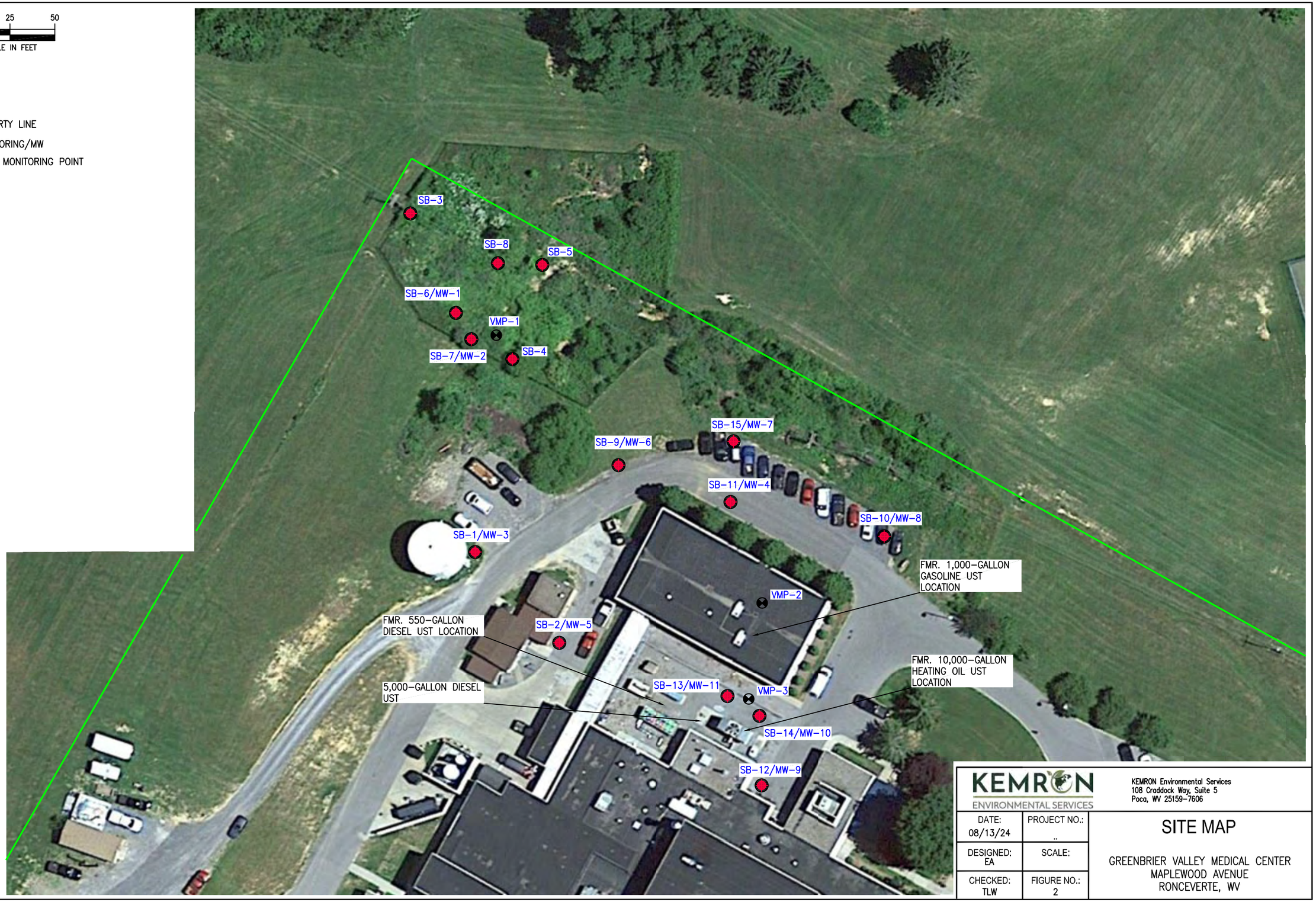
SCALE IN FEET

LEGEND:

PROPERTY LINE

SOIL BORING/MW

VAPOR MONITORING POINT



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DATE: 08/13/24	PROJECT NO.: ..
DESIGNED: EA	SCALE:
CHECKED: TLW	FIGURE NO.: 2

SITE MAP

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

CAMC Greenbrier Valley Medical Center VRP Project.dwg

0 10 20
SCALE IN FEET

LEGEND:

- PROPERTY LINE
- NOV 2022 SOIL SAMPLE LOCATION
- NOV 2022 EXPLORATORY BORING
- NOV 2022 BORING WITH TEMPORARY WELL
- NOV 2022 DRY BORING/TEMP. WELL

SAMPLE ID — SOIL CONCENTRATIONS EXCEEDED WVDEP RESIDENTIAL DE MINIMIS STANDARDS

SAMPLE ID — GW CONCENTRATIONS EXCEEDED WVDEP GW DE MINIMIS STANDARDS

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TLW	3

HISTORICAL SOIL AND GROUNDWATER SAMPLING LOCATIONS MAP

CAMC GREENBRIER VALLEY MEDICAL CENTER
1320 MAPLEWOOD AVENUE
RONCEVERTE, WV

WVDOT PrincetonOverheadBridgeProject-01.dwg 10/26/20

0 25 50
SCALE IN FEET

LEGEND:

PROPERTY LINE

SOIL BORING/MW

VAPOR MONITORING POINT

CONCENTRATIONS IN ppm (mg/kg)

SAMPLE ID

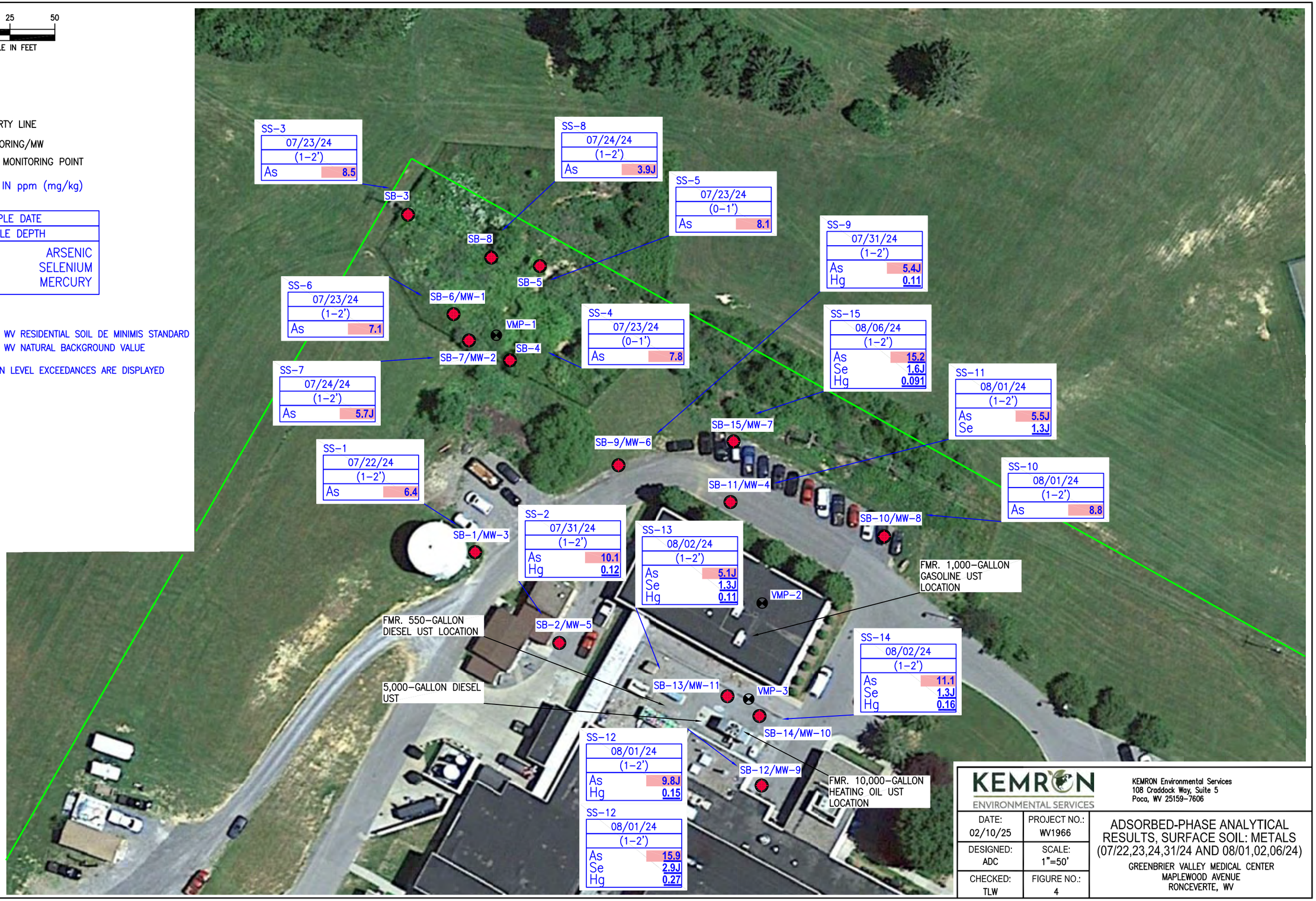
SAMPLE DATE	
SAMPLE DEPTH	
As	ARSENIC
Se	SELENIUM
Hg	MERCURY

NOTES:

BOLD –VALUE EXCEEDS WV RESIDENTIAL SOIL DE MINIMIS STANDARD

BOLD –VALUE EXCEEDS WV NATURAL BACKGROUND VALUE

NOTE: ONLY WVDEP ACTION LEVEL EXCEEDANCES ARE DISPLAYED



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ADC	1"=50'
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ADSORBED-PHASE ANALYTICAL RESULTS, SURFACE SOIL: METALS (07/22,23,24,31/24 AND 08/01,02,06/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

CAMC Greenbrier Valley Medical Center VRP Project.dwg

0 25 50
SCALE IN FEET

LEGEND:

PROPERTY LINE

SOIL BORING/MW

VAPOR MONITORING POINT

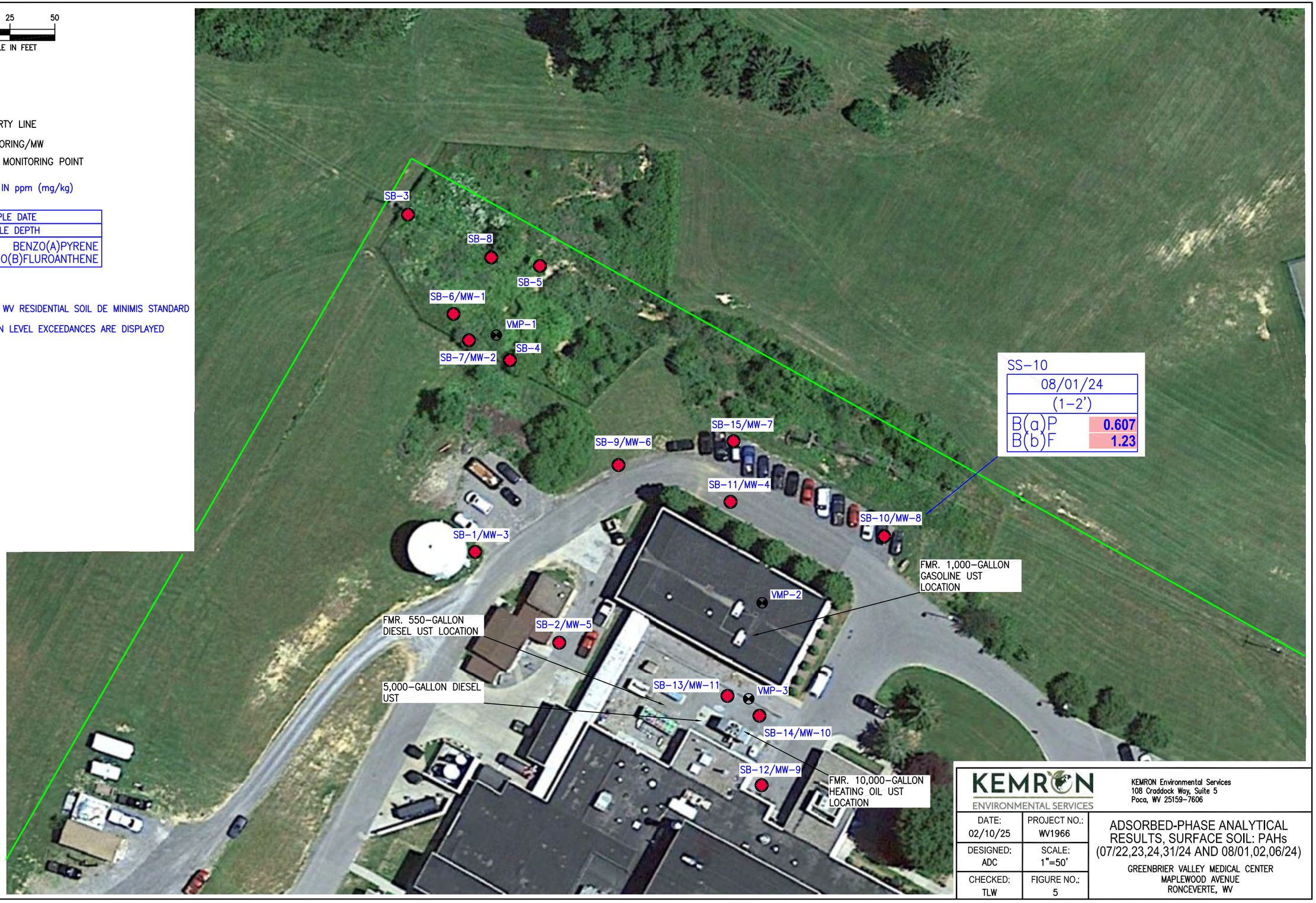
CONCENTRATIONS IN ppm (mg/kg)

SAMPLE ID
SAMPLE DATE
SAMPLE DEPTH
B(a)P BENZO(A)PYRENE
B(b)F BENZO(B)FLURANTHENE

NOTES:

BOLD –VALUE EXCEEDS WV RESIDENTIAL SOIL DE MINIMIS STANDARD

NOTE: ONLY WVDEP ACTION LEVEL EXCEEDANCES ARE DISPLAYED



CAMC Greenbrier Valley Medical Center VRP Project.dwg

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TLW	5

ADSORBED-PHASE ANALYTICAL RESULTS, SURFACE SOIL: PAHs (07/22,23,24,31/24 AND 08/01,02,06/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

0 25 50
SCALE IN FEET

LEGEND:

PROPERTY LINE

SOIL BORING/MW

VAPOR MONITORING POINT

CONCENTRATIONS IN ppm (mg/kg)

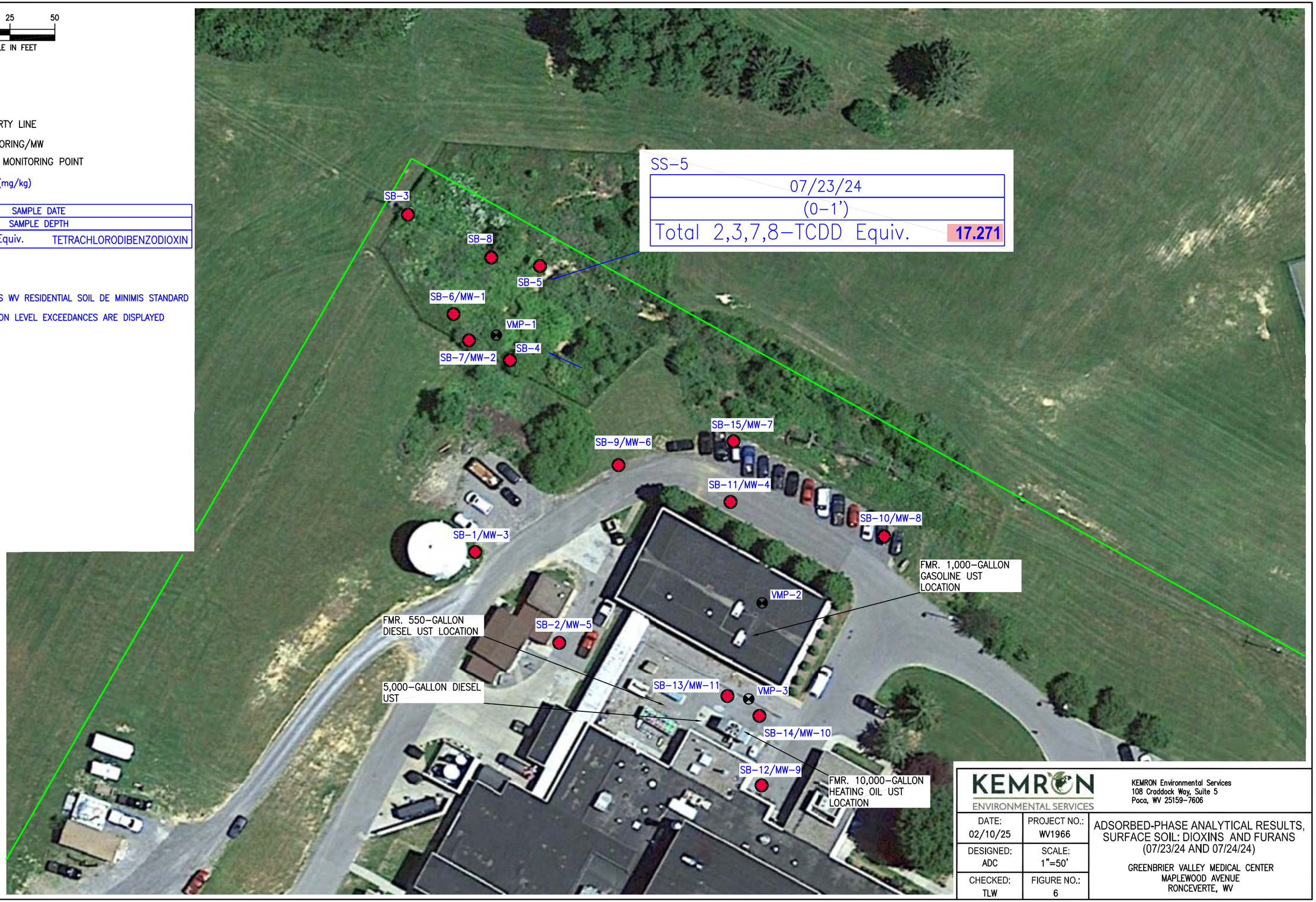
SAMPLE ID

SAMPLE DATE	
SAMPLE DEPTH	
Total 2,3,7,8-TCDD Equiv.	TETRACHLORODIBENZODIOXIN

NOTES:

BOLD -VALUE EXCEEDS WV RESIDENTIAL SOIL DE MINIMIS STANDARD

NOTE: ONLY WVDEP ACTION LEVEL EXCEEDANCES ARE DISPLAYED



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02/10/25	WV1966
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ADC	1"=50'
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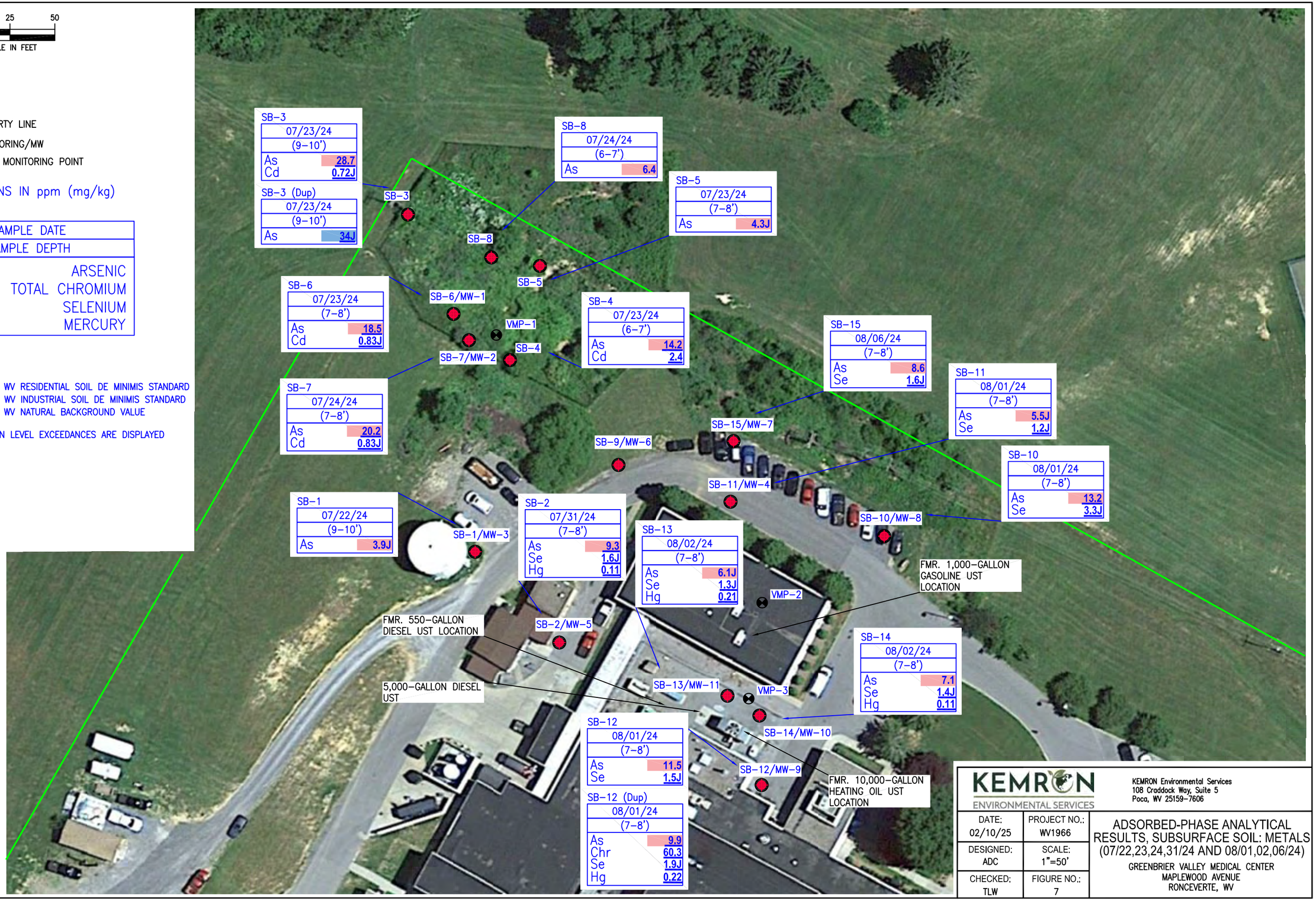
TLW	6

ADSORBED-PHASE ANALYTICAL RESULTS, SURFACE SOIL: DIOXINS AND FURANS (07/23/24 AND 07/24/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

CAMC Greenbrier Valley Medical Center VRP Project.dwg



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DATE:	PROJECT NO.:
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ADC	1"=50'
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TLW	7

ADSORBED-PHASE ANALYTICAL RESULTS, SUBSURFACE SOIL: METALS (07/22,23,24,31/24 AND 08/01,02,06/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

0 25 50
SCALE IN FEET

LEGEND:

- PROPERTY LINE
- GROUNDWATER MONITORING WELL
- VAPOR MONITORING POINT
- 84.07 — RELATIVE GROUNDWATER ELEVATION (FEET)
- 70 — EQUIPOTENTIAL CONTOUR LINE (DASHED WHERE INFERRED)
- HYDRAULIC GRADIENT
- GROUNDWATER FLOW DIRECTION

$$i = \frac{\Delta H}{\Delta L} = \frac{94.47\ (MW\text{-}5) - 81.06\ (MW\text{-}8)}{203.48\ FT.}$$

$$= 0.0659\ FT./FT.$$

MW-1
Dry
VMP-1
MW-2
Dry
MW-6
84.41
MW-7
84.85
MW-4
84.61
82.00
MW-8
81.06
83.58
MW-3
84.00
86.00
88.00
90.00
92.00
94.00
MW-5
94.47
FMR. 1,000-GALLON GASOLINE UST LOCATION
VMP-2
MW-11
88.09
82.00
FMR. 10,000-GALLON HEATING OIL UST LOCATION
VMP-3
MW-10
85.70
84.00
86.00
88.00
90.00
92.00
94.00
FMR. 550-GALLON DIESEL UST LOCATION
5,000-GALLON DIESEL UST
MW-9
90.65

KEMRON ENVIRONMENTAL SERVICES

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DATE:	PROJECT NO.:
02/11/25	WV1966
DESIGNED:	SCALE:
ADC	1"=50'
CHECKED:	FIGURE NO.:
TLW	8

GROUNDWATER POTENTIOMETRIC SURFACE (09/04/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

CAMC Greenbrier Valley Medical Center VRP Project.dwg

0 25 50
SCALE IN FEET

LEGEND:

PROPERTY LINE

GROUNDWATER MONITORING WELL

VAPOR MONITORING POINT

CONCENTRATIONS IN ppb (ug/L)

SAMPLE ID

SAMPLE DATE	
B	BENZENE
Ch	CHLOROFORM
E	ETHYLBENZENE
N	NAPHTHALENE
1,2,4-T	1,2,4-TRIMETHYLBENZENE
1,3,5-T	1,3,5-TRIMETHYLBENZENE
X	TOTAL XYLENES

NOTES:

BOLD -VALUE EXCEEDS WV GROUNDWATER DE MINIMIS STANDARD
BOLD -VALUE EXCEEDS EPA VAPOR INTRUSION SCREENING LEVEL (RESIDENTIAL)
BOLD -VALUE EXCEEDS EPA VAPOR INTRUSION SCREENING LEVEL (INDUSTRIAL)

NOTE: ONLY WVDEP AND EPA ACTION LEVEL EXCEEDANCES ARE DISPLAYED

SB-3
SB-8
SB-5
MW-1
VMP-1
MW-2
SB-4
MW-6
MW-7
MW-4
MW-8
MW-3
MW-5
VMP-2
MW-11
VMP-3
MW-10
MW-9

MW-6

09/05/24	
B	13.1
Ch	4.8
E	107
N	72.2
1,2,4-T	445
1,3,5-T	148

MW-4

09/05/24	
B	55.5
E	424
N	96.9
1,2,4-T	938
1,3,5-T	335
X	1,080

MW-3

09/05/24	
Ch	10.4

MW-3 (Dup)

09/05/24	
Ch	10.7

MW-5

09/05/24	
Ch	16.2

FMR. 1,000-GALLON GASOLINE UST LOCATION

FMR. 550-GALLON DIESEL UST LOCATION

5,000-GALLON DIESEL UST

FMR. 10,000-GALLON HEATING OIL UST LOCATION

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DESIGNED:	SCALE:
ADC	1"=50'
CHECKED:	FIGURE NO.:
TLW	9

DISSOLVED-PHASE ANALYTICAL RESULTS: VOCs (09/04-06/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

C&MC Greenbrier Valley Medical Center VRP Project.dwg

0 10 20
SCALE IN FEET

LEGEND:

PROPERTY LINE

GROUNDWATER MONITORING WELL

VAPOR MONITORING POINT

CONCENTRATIONS IN ppb (ug/L)

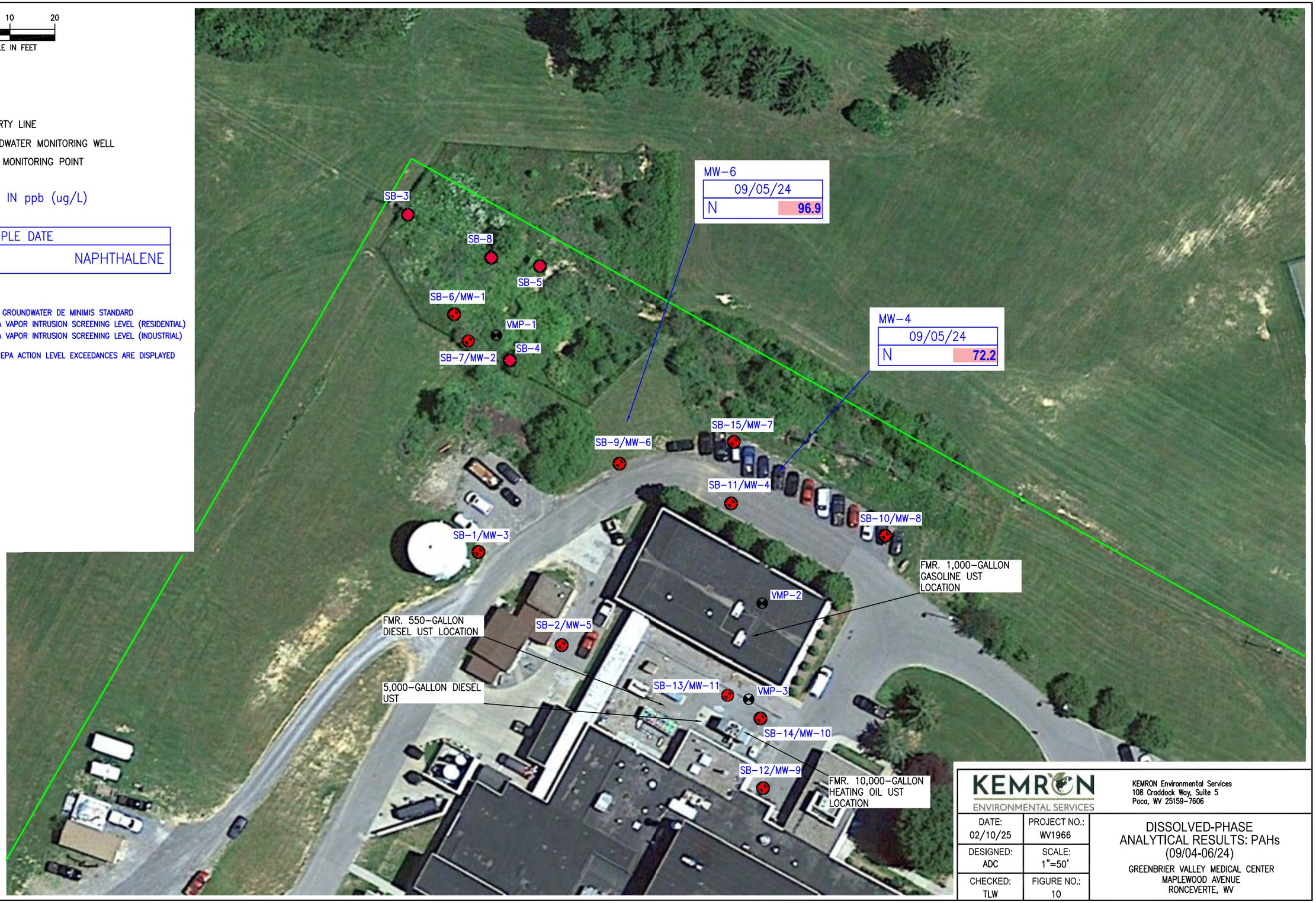
SAMPLE ID

SAMPLE DATE	
N	NAPHTHALENE

NOTES:

BOLD –VALUE EXCEEDS WV GROUNDWATER DE MINIMIS STANDARD
BOLD –VALUE EXCEEDS EPA VAPOR INTRUSION SCREENING LEVEL (RESIDENTIAL)
BOLD –VALUE EXCEEDS EPA VAPOR INTRUSION SCREENING LEVEL (INDUSTRIAL)

NOTE: ONLY WVDEP AND EPA ACTION LEVEL EXCEEDANCES ARE DISPLAYED



KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services
108 Craddock Way, Suite 5
Poca, WV 25159–7606

DATE:	PROJECT NO.:
02/10/25	WV1966
DESIGNED:	SCALE:
ADC	1"=50'
CHECKED:	FIGURE NO.:
TLW	10

DISSOLVED-PHASE ANALYTICAL RESULTS: PAHs (09/04-06/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

CAMC Greenbrier Valley Medical Center VRP Project.dwg

0 25 50
SCALE IN FEET

LEGEND:

PROPERTY LINE

GROUNDWATER MONITORING WELL

VAPOR MONITORING POINT

CONCENTRATIONS IN ppb (ug/L)

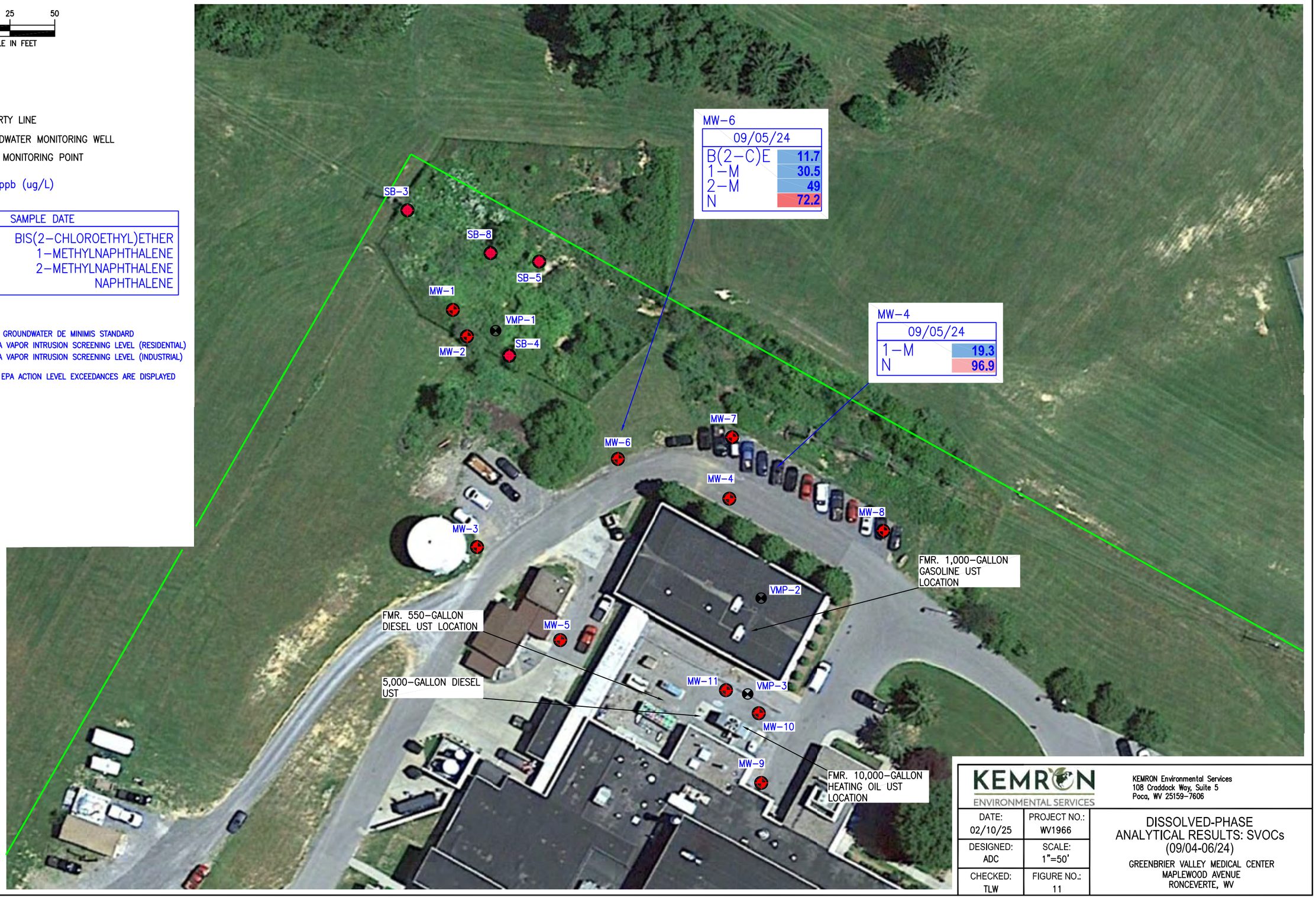
SAMPLE ID

SAMPLE DATE	
B(2-C)E	BIS(2-CHLOROETHYL)ETHER
1-M	1-METHYLNAPHTHALENE
2-M	2-METHYLNAPHTHALENE
N	NAPHTHALENE

NOTES:

BOLD -VALUE EXCEEDS WV GROUNDWATER DE MINIMIS STANDARD
BOLD -VALUE EXCEEDS EPA VAPOR INTRUSION SCREENING LEVEL (RESIDENTIAL)
BOLD -VALUE EXCEEDS EPA VAPOR INTRUSION SCREENING LEVEL (INDUSTRIAL)

NOTE: ONLY WVDEP AND EPA ACTION LEVEL EXCEEDANCES ARE DISPLAYED



KEMRON ENVIRONMENTAL SERVICES

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108 Craddock Way, Suite 5
Poca, WV 25159-7606

DATE:	PROJECT NO.:
02/10/25	WV1966
DESIGNED:	SCALE:
ADC	1"=50'
CHECKED:	FIGURE NO.:
TLW	11

DISSOLVED-PHASE ANALYTICAL RESULTS: SVOCs (09/04-06/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

CAMC_Greenbrier_Valley_Medical_Center_VRP_Project.dwg

0 25 50
SCALE IN FEET

LEGEND:

PROPERTY LINE

GROUNDWATER MONITORING WELL

VAPOR MONITORING POINT

CONCENTRATIONS IN ppb (ug/m3)

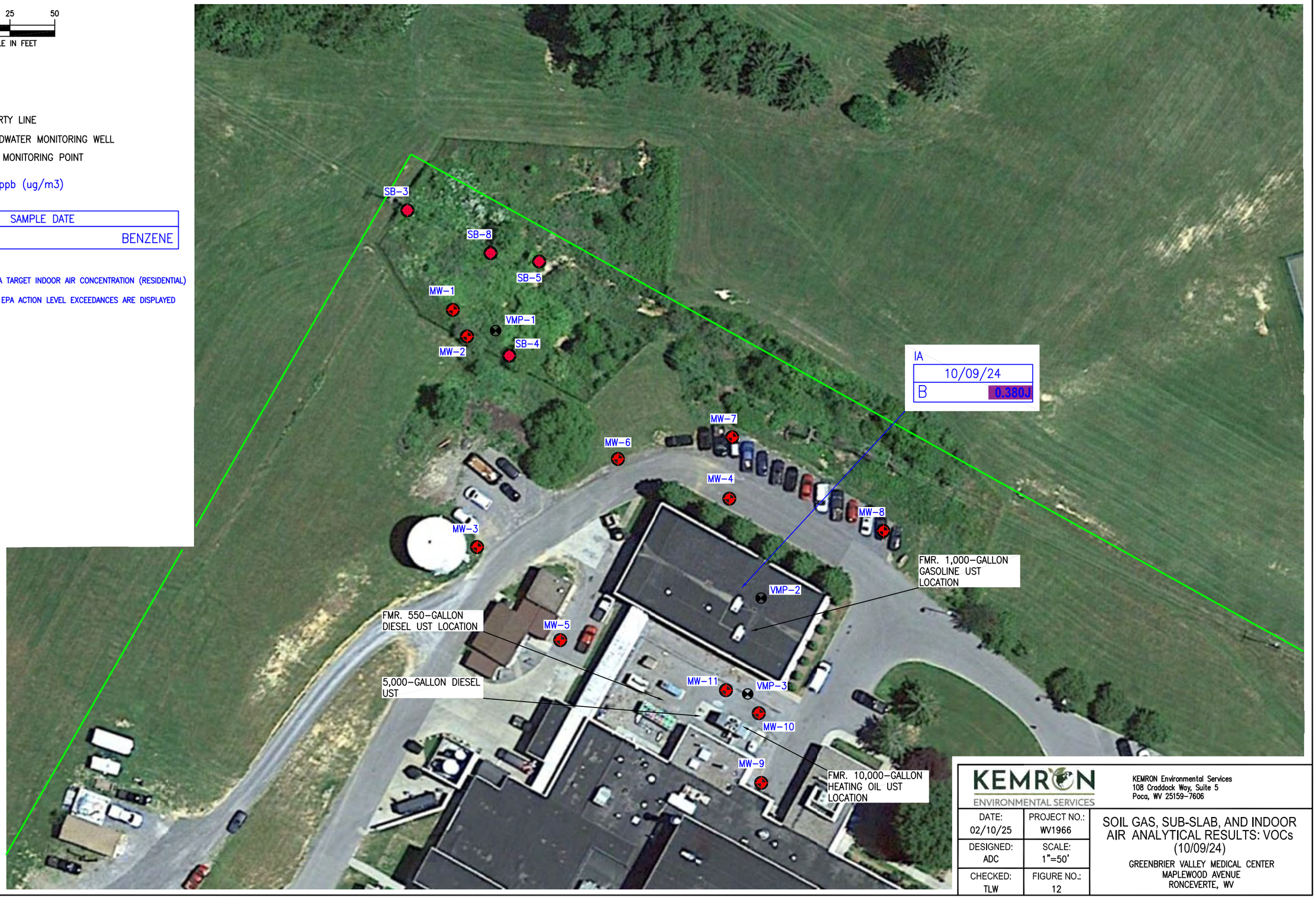
SAMPLE ID

SAMPLE DATE	
B	BENZENE

NOTES:

BOLD –VALUE EXCEEDS EPA TARGET INDOOR AIR CONCENTRATION (RESIDENTIAL)

NOTE: ONLY WVDEP AND EPA ACTION LEVEL EXCEEDANCES ARE DISPLAYED



KEMRON ENVIRONMENTAL SERVICES

KEMRON Environmental Services
108 Craddock Way, Suite 5
Poca, WV 25159-7606

DATE:	PROJECT NO.:
02/10/25	WV1966
DESIGNED:	SCALE:
ADC	1"=50'
CHECKED:	FIGURE NO.:
TLW	12

SOIL GAS, SUB-SLAB, AND INDOOR AIR ANALYTICAL RESULTS: VOCs (10/09/24)

GREENBRIER VALLEY MEDICAL CENTER
MAPLEWOOD AVENUE
RONCEVERTE, WV

CAMC Greenbrier Valley Medical Center VRP Project.dwg

Figure 13
Conceptual Site Model
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

SITE HISTORY		SITE PHYSICAL CHARACTERISTICS			ENVIRONMENTAL RECEPTORS					
Primary Source	Primary Release	Media	Secondary Mech.	Exposure Pathway	Exposure Route	Resident	Site Trespasser (Residential)	Site Commercial/Industrial Worker	Construction/Utility Worker	
CAMC Greenbrier Valley Medical Center: Adsorbed-Phase COCs: (Metals, PAHs, and Dioxins); Dissolved-Phase COCs: (VOCs, PAHs, and SVOCs); Indoor Air COCs: (VOCs)	Former USTs and ash disposal area	Surface Soil - COPCs (Metals, PAHs, and Dioxins)			Ingestion - COCs (Metals, PAHs, and Dioxins)	Potential Future	Potential Current and Future	Not Applicable	Not Applicable	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
					Dermal Contact - COCs (Metals, PAHs, and Dioxins)	Potential Future	Potential Current and Future	Not Applicable	Not Applicable	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
					Inhalation - COCs from Outdoor Air (Metals, PAHs, and Dioxins)	Potential Future	Potential Current and Future	Not Applicable	Not Applicable	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
					Inhalation - COCs from Onsite Indoor Air (Metals, PAHs, and Dioxins)	Potential Future	Potential Current and Future	Not Applicable	Not Applicable	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
		Subsurface Soil - COPCs (Metals)			Ingestion - COCs (Metals, SVOCs)	Not Applicable	Not Applicable	Not Applicable	Potential Current and Future	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
					Dermal Contact - COCs (Metals, SVOCs)	Not Applicable	Not Applicable	Not Applicable	Potential Current and Future	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
					Inhalation - COCs (Metals and SVOCs)	Not Applicable	Not Applicable	Not Applicable	Potential Current and Future	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
		Groundwater - COPCs (VOCs, PAHs, and SVOCs)			Ingestion of Groundwater - COPCs (VOCs, PAHs, and SVOCs)	Potential Future	Potential Current and Future	Potential Current and Future	Potential Current and Future	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
					Dermal Contact - COPCs (VOCs, PAHs, and SVOC)	Potential Future	Potential Current and Future	Potential Current and Future	Potential Current and Future	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
					Inhalation - COPCs (VOCs, PAHs, and SVOCs)	Potential Future	Potential Current and Future	Potential Current and Future	Potential Current and Future	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site
		Indoor Air - COPCs (VOCs)			Indoor Air Inhalation - COPCs (VOCs)	Potential Future	Potential Current and Future	Not Applicable	Not Applicable	On-Site
						Not Applicable	Not Applicable	Not Applicable	Not Applicable	Off-Site

TABLES

Table 1
Historical Soil Sample Analytical Results - November 2022
Greenbrier Valley Medical Center, Ronceverte, West Virginia

Analyte	Maximum Concentration of Conaminants for the Toxicity Characteristic of Hazardous Waste[1]	WV Table 60-3B De Minimis Standards Residential Soil	WV Table 60-3B De Minimis Standards Indsutrial Soil	Sample ID	B-1/TMW-1/18	B-1/TMW-1/21	B-3/5	B-5/5	B-6/8	B-6/13	B-9/7	B-9/9.5	B-19/5	B-20/5	B-22/3	B-23/3	B-24/3
				Depth (feet)	18	21	5	5	8	13	7	9.5	5	5	3	3	3
				Location	Fenced Area		Stockpile	Stockpile	Between Middle and Northern Sinkholes		Near Drainage Ditch and Fence		Drainage Ditch		Middle Sinkhole	Southern Sinkhole	Northern Sinkhole
				Date Collected	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/02/2022	11/03/2022	11/03/2022	11/03/2022	11/03/2022	11/03/2022
USEPA Method 6010 D (mg/L)																	
BARIUM	100				**0.785**	**0.233**	**0.506**	**0.41**	**0.189**	**0.188**	**0.378**	**0.431**	**0.254**	**0.133**	**0.226**	**0.286**	**1.34**
USEPA Method 8260D (mg/kg)																	
BENZENE		1.2	54		**0.00816**	**0.00166**	<0.00100	<0.00100	**0.00275**	**0.00122**	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
USEPA Method 8270 (mg/kg)																	
BENZO(A)ANTHRACENE		1.5	320		<0.0333	<0.0333	<0.0333	**0.0773**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0472**	<0.0333
BENZO(B)FLUORANTHENE		1.1	210		<0.0333	<0.0333	**0.0598**	**0.152**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0902**	<0.0333
BENZO(K)FLUORANTHENE		11	2100		<0.0333	<0.0333	<0.0333	**0.0508**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333
BENZO(G,H,I)PERYLENE		1800	23000		<0.0333	<0.0333	**0.0333**	**0.055**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0476**	<0.0333
BENZO(A)PYRENE		0.11	21		<0.0333	<0.0333	**0.0384**	**0.106**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0668**	<0.0333
CHRYSENE		110	21000		<0.0333	<0.0333	**0.0412**	**0.107**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0644**	<0.0333
FLUORANTHENE		2400	30000		<0.0333	<0.0333	**0.0596**	**0.16**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0981**	<0.0333
INDENO(1,2,3-CD)PYRENE		1.1	210		<0.0333	<0.0333	**0.0372**	**0.0645**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0544**	<0.0333
PHENANTHRENE		23000	350000		<0.0333	<0.0333	<0.0333	**0.0442**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333
PYRENE		2300	34000		<0.0333	<0.0333	**0.047**	**0.132**	<0.666	<0.0666	<0.0333	<0.0333	<0.0333	<0.0333	<0.0333	**0.0764**	<0.0333

NOTES:
[1] 40 CFR 261.24
Only detected analytes are presented, and detected concentrations are indicated in bold.
mg/L: milligrams per liter
mg/kg: milligrams per kilogram
NE: Standards not established for the contaminant and/or exposure pathway.
<: Not Detected at the reporting limit shown
Where applicable, detected concentrations are highlighted as follows:

Exceeds De Minimis Standards for Residential Soil

Exceeds De Minimis Standards for Industrial Soil

Table 2
Historical Groundwater Sample Analytical Results - November 2022
Greenbrier Valley Medical Center, Ronceverte, West Virginia

Analyte	WV Voluntary Remediation Program Table 60-3B De Minimis Groundwater Standards	Sample ID	B-16/TMW-6	B-17/TMW-7	B-18/TMW-8
		Location	Between loading dock and sinkhole area	Between drainage ditch and building	Between sinkhole fence and water tank
		Date Collected	11/03/2022	11/03/2022	11/03/2022
VOCs - USEPA Method 8260D (mg/L)					
BARIUM	2		**0.155**	NA[1]	**0.0990**
BARIUM, DISSOLVED	2		**0.100**	**0.0387**	**0.0919**
CHROMIUM	0.1		**0.0148**	NA[1]	<0.0100
CHROMIUM, DISSOLVED	0.1		<0.0100	<0.0100	<0.0100
LEAD	0.015		**0.00607**	NA[1]	<0.00600
LEAD, DISSOLVED	0.015		<0.00600	<0.00600	<0.00600
BENZENE	0.005		**0.0122**	**0.00216**	<0.00100
N-BUTYLBENZENE	1		**0.0246**	<0.00100	<0.00100
SEC-BUTYLBENZENE	NE		**0.0167**	**0.00174**	<0.00100
1,2-DICHLOROETHANE	0.005		<0.00100	**0.00721**	<0.00100
DI-ISOPROPYL ETHER	NE		<0.00100	**0.00111**	<0.00100
ETHYLBENZENE	0.7		**0.11**	**0.00221**	<0.00100
ISOPROPYLBENZENE	0.45		**0.123**	**0.0114**	<0.00100
P-ISOPROPYLTOLUENE	NE		**0.00743**	<0.00100	<0.00100
2-BUTANONE (MEK)	5.6		<0.0100	**0.0172**	<0.0100
METHYL TERT-BUTYL ETHER	0.014		<0.00100	**0.00179**	<0.00100
NAPHTHALENE	0.00012		**0.0731 C3**	<0.00500 C3	<0.00500 C3
N-PROPYLBENZENE	0.66		**0.176**	**0.00689**	<0.00100
TOLUENE	1		**0.00123**	<0.00100	<0.00100
1,2,4-TRIMETHYLBENZENE	0.056		**0.254**	<0.00100	<0.00100
1,2,3-TRIMETHYLBENZENE	NE		**0.0396**	<0.00100	<0.00100
1,3,5-TRIMETHYLBENZENE	0.06		**0.0988**	**0.00112**	<0.00100
XYLENES, TOTAL	10		**0.152**	<0.00300	<0.00300
SVOCs - USEPA Method 8270C (mg/L)					
NAPHTHALENE	0.00012		**0.0281**	<0.00100	<0.00100

NOTES:

[1] Due to limited yield from this well, not all analyses could be completed.

NA: Not analyzed

Except where metals were detected are are compared with dissolved concentrations, only detected analytes are presented, and detected concentrations are indicated in bold.

mg/L: milligrams per liter

NE: Standards not established for the contaminant and/or exposure pathway.

C3: The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

<: Not Detected at the reporting limit shown

Where applicable, detected concentrations are highlighted as follows:

Exceedance of one or more

Table 3
Adsorbed-Phase Analytical Results, Surface Soil: Metals
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID	Sample Date	Sample Depth (ft-bgs)	Constituent	Arsenic		Barium		Cadmium		Chromium		Lead		Selenium		Silver		Mercury	
			CAS#	7440-38-2		7440-39-3		7440-43-9		7440-47-3		7439-92-1		7782-49-2		7440-22-4		7439-97-6	
			Units	mg/Kg															
West Virginia Residential Soil DeMinimis Standards				0.68		15,000		37		120,000		200		390		390		3.1	
West Virginia Industrial Soil DeMinimis Standards				30		220,000		530		1,000,000		800		5,800		5,800		3.1	
WV Natural Background Values				13.1		565		0.5		57.4		38		0.8		1.0		0.09	
GVMC-SS-1 (1-2)-01-1001	07/22/24	(1-2)		6.4		55.3		0.24	J	21.5		16.7		5.6	U	2.8	U	0.028	
GVMC-SS-2 (1-2)-01-1017	07/31/24	(1-2)		10.1		70.2		1.2	U	34.4		27.9		6.1	U	3.0	U	0.12	
GVMC-SS-3 (1-2)-01-1003	07/23/24	(1-2)		8.5		114		0.26	J	39.3		19.7		6.2	U	3.1	U	0.032	
GVMC-SS-3 (1-2)-02-1004 (Dup)	07/23/24	(1-2)		10.5		98.0		0.25	J	40.4		24.3		6.4	U	3.2	U	0.033	
GVMC-SS-4 (0-1)-01-1007	07/23/24	(0-1)		7.8		61.3		0.34	J	44.1		17.7		6.1	U	3.1	U	0.025	U
GVMC-SS-5 (0-1)-01-1009	07/23/24	(0-1)		8.1		73.8		0.38	J	30.5		26.2		5.9	U	2.9	U	0.081	
GVMC-SS-6 (1-2)-01-1011	07/23/24	(1-2)		7.1		71.2		0.17	J	18.4		12.3		5.9	U	3.0	U	0.024	U
GVMC-SS-7 (1-2)-01-1013	07/24/24	(0-2.5)		5.7	J	54.5		0.18	J	17.1		12.1		6.2	U	3.1	U	0.024	U
GVMC-SS-8 (1-2)-01-1015	07/24/24	(1-2)		3.9	J	86.3		1.2	U	11.9		14.3		6.2	U	3.1	U	0.025	U
GVMC-SS-9 (1-2)-01-1019	07/31/24	(1-2)		5.4	J	26		1.1	U	23.9		10.6		5.7	U	2.9	U	0.11	
GVMC-SS-10 (1-2)-01-1021	08/01/24	(1-2)		8.8		81		1.3	U	17.5		13.1		6.4	U	3.2	U	0.082	
GVMC-SS-11 (1-2)-01-1023	08/01/24	(1-2)		5.5	J	74		1.1	U	31.7		14.3		1.3	J	2.8	U	0.037	
GVMC-SS-12 (1-2)-01-1025	08/01/24	(1-2)		9.8	J	33.1		5.9	U	29.7	M1	23.0	J	29.5	U	14.8	U	0.15	
GVMC-SS-12 (1-2)-02-1026 (Dup)	08/01/24	(1-2)		15.9		44.8		1.2	U	49.4		25.1		2.9	J	3.0	U	0.27	
GVMC-SS-13 (1-2)-01-1031	08/02/24	(1-2)		5.1	J	23.1		1.2	U	24		11.6		1.3	J	3.0	U	0.11	
GVMC-SS-14 (1-2)-01-1033	08/02/24	(1-2)		11.1		38.6		1.2	U	50.7		17.5		1.3	J	3.0	U	0.16	
GVMC-SS-15 (1-2)-01-1035	08/06/24	(1-2)		15.2		45.5		1.1	U	45.2		30.8		1.6	J	2.8	U	0.091	

mg/Kg - Milligrams per kilogram
ft-bgs - feet below ground surface
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No Screening Value Available

Table 4
Adsorbed Phase Analytical Results, Surface Soil: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SS-1 (1-2)-01-1001		GVMC-SS-2 (1-2)-01-1017		GVMC-SS-3 (1-2)-01-1003		GVMC-SS-3 (1-2)-02-1004 (Dup)		GVMC-SS-4 (0-1)-01-1007		GVMC-SS-5 (0-1)-01-1009		GVMC-SS-6 (1-2)-01-1011		GVMC-SS-7 (1-2)-01-1013		GVMC-SS-8 (1-2)-01-1015		GVMC-SS-9 (1-2)-01-1019		GVMC-SS-10 (1-2)-01-1021		GVMC-SS-11 (1-2)-01-1023		GVMC-SS-12 (1-2)-01-1025		GVMC-SS-12 (1-2)-02-1026 (Dup)		GVMC-SS-13 (1-2)-01-1031		GVMC-SS-14 (1-2)-01-1033		GVMC-SS-15 (1-2)-01-1035	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(1-2)		(1-2)		(1-2)		(1-2)		(0-1)		(0-1)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)	
Units				mg/Kg																																	
Constituent	CAS#	West Virginia Residential Soil DeMinimis Standards	West Virginia Industrial Soil DeMinimis Standards																																		
Acetone	67-64-1	61,000	110,000	**0.114**	CL	0.0446	U	**0.219**	CL, MH	**0.182**	CL	**0.165**	CL	**0.183**	CL	**0.222**	CL	**0.0861**	CL	**0.142**	CL	0.0633	U	**0.0482**	J	0.053	U	0.0502	U	0.0438	U	0.0372	U	0.0413	U	**0.276**	1c, CL
Benzene	71-43-2	1.2	54	0.0055	U	**0.0011**	J	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	**0.0021**	J	0.0053	U	**0.0012**	J	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Bromochloromethane	74-97-5	NA	NA	0.0055	U	0.0045	U	0.0048	U, ML	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Bromodichloromethane	75-27-4	0.31	14	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Bromoform	75-25-2	20	910	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Bromomethane	74-83-9	7.3	32	0.0055	U, 2c, CL	0.0045	U, 2c	0.0048	U, 2c, CL, ML	0.0048	U, 2c, CL	0.0061	U, 2c, CL	0.0057	U, 2c, CL	0.0044	U, 2c, CL	0.0053	U, 2c, CL	0.0056	U, 2c, CL	0.0063	U, 2c	0.0067	U, 2c	0.0053	U, 2c	0.005	U, 2c	0.0044	U, 2c	0.0037	U, 2c	0.0041	U, 2c	0.0047	U, 1c, 2c
2-Butanone	78-93-3	28,000	28,000	**0.0124**		0.0089	U	**0.0242**	R1	**0.0197**		**0.0109**	J	**0.0155**		**0.02**		**0.0071**	J	**0.0148**		0.0127	U	0.0135	U	0.0106	U	0.01	U	0.0088	U	0.0074	U	0.0083	U	**0.0279**	1c
Carbon disulfide	75-15-0	740	740	0.0055	U	**0.0029**	J	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	**0.0037**	J	**0.0038**	J	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c, CL
Carbon tetrachloride	56-23-5	0.7	31	0.0055	U	0.0045	U	0.0048	U, ML	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Chlorobenzene	108-90-7	290	760	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Chloroethane	75-00-3	2,100	2,100	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Chloroform	67-66-3	0.34	15	0.0055	U	0.0045	U	0.0048	U, ML	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Chloromethane	74-87-3	120	500	0.0055	U, CL	0.0045	U	0.0048	U, CL	0.0048	U, CL	0.0061	U, CL	0.0057	U, CL	0.0044	U, CL	0.0053	U, CL	0.0056	U, CL	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Dibromochloromethane	124-48-1	8.3	390	0.0055	U	0.0045	U	0.0048	U, ML	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,2-Dichlorobenzene	95-50-1	380	380	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,3-Dichlorobenzene	541-73-1	NA	NA	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,4-Dichlorobenzene	106-46-7	2.8	120	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,1-Dichloroethane	75-34-3	3.8	170	0.0055	U	0.0045	U	0.0048	U, ML, R1	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,2-Dichloroethane	107-06-2	0.5	22	0.0055	U	0.0045	U	0.0048	U, ML	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,2-Dichloroethene (Total)	540-59-0	0.5	22	0.011	U	0.0089	U	0.0096	U	0.0095	U	0.0122	U	0.0114	U	0.0088	U	0.0106	U	0.0112	U	0.0127	U	0.0135	U	0.0106	U	0.01	U	0.0088	U	0.0074	U	0.0083	U	0.0094	U
1,1-Dichloroethene	75-35-4	240	1,100	0.0055	U	0.0045	U	0.0048	U, ML, R1	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
cis-1,2-Dichloroethene	156-59-2	17	80	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
trans-1,2-Dichloroethene	156-60-5	75	320	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,2-Dichloropropane	78-87-5	2.7	71	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
cis-1,3-Dichloropropene [1]	10061-01-5	1.9	86	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
trans-1,3-Dichloropropene [1]	10061-02-6	1.9	86	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Ethylbenzene	100-41-4	6.2	270	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
2-Hexanone	591-78-6	NA	NA	**0.0092**	J	0.0089	U	**0.0046**	J, R1	**0.0045**	J	**0.0392**		**0.0189**		**0.0142**		**0.0087**	J	**0.0033**	J	0.0127	U	0.0135	U	0.0106	U	0.01	U	0.0088	U	0.0074	U	0.0083	U	0.0094	U, 1c
Isopropylbenzene	98-82-8	270	270	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Methylene chloride	75-09-2	58	3,300	0.0055	U, CL, IH	0.0045	U	0.0048	U, CL, IH, ML	0.0048	U, CL, IH	0.0061	U, CL, IH	0.0057	U, CL, IH	0.0044	U, CL, IH	0.0053	U, CL, IH	0.0056	U, CL, IH	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
4-Methyl-2-pentanone	108-10-1	3,400	3,400	0.011	U	0.0089	U	0.0096	U	0.0095	U	0.0122	U	0.0114	U	0.0088	U	0.0106	U	0.0112	U	0.0127	U	0.0135	U	0.0106	U	0.01	U	0.0088	U	0.0074	U	0.0083	U	0.0094	U, 1c
Methyl tert butyl ether	1634-04-4	50	2,200	0.0055	U	0.0045	U	0.0048	U, ML, R1	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Naphthalene	91-20-3	2.4	110	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Styrene	100-42-5	870	870	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,1,2,2-Tetrachloroethane	79-34-5	0.64	28	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Tetrachloroethene	127-18-4	25	170	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Toluene	108-88-3	820	820	0.0055	U	**0.0011**	J	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	**0.0018**	J	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,2,4-Trichlorobenzene	120-82-1	24	280	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,1,1-Trichloroethane	71-55-6	640	640	0.0055	U	0.0045	U	0.0048	U, ML	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,1,2-Trichloroethane	79-00-5	1.2	6.8	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Trichloroethylene	79-01-6	1.0	20	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,2,4-Trimethylbenzene	95-63-6	220	220	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
1,3,5-Trimethylbenzene	108-67-8	180	180	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Vinyl chloride	75-01-4	0.061	18	0.0055	U	0.0045	U	0.0048	U, ML	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
Xylenes	1330-20-7	260	260	0.0165	U, LS	0.0134	U	0.0144	U, LS	0.0143	U, LS	0.0183	U, LS	0.0171	U, LS	0.0133	U, LS	0.0159	U, LS	0.0168	U, LS	0.0190	U	0.0202	U	0.0159	U	0.0151	U	0.0131	U	0.0112	U	0.0124	U	0.0141	U, 1c
o-Xylene	95-47-6	260	260	0.0055	U	0.0045	U	0.0048	U	0.0048	U	0.0061	U	0.0057	U	0.0044	U	0.0053	U	0.0056	U	0.0063	U	0.0067	U	0.0053	U	0.005	U	0.0044	U	0.0037	U	0.0041	U	0.0047	U, 1c
m,p-Xylene	179601-23-1	260	260	0.011	U, L2	0.0089	U	0.0096	U, L2	0.0095	U, L2	0.0122	U, L2	0.0114	U, L2	0.0088	U, L2	0.0106	U, L2	0.0112	U, L2	0.0127	U	0.0135	U	0.0106	U	0.01	U	0.0088	U	0.0074	U	0.0083	U	0.0094	U, 1c

mg/Kg - Milligrams per kilogram
ft-bgs - feet below ground surface
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
1c - A matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c - The analyte did not meet the method recommended minimum RF.
CL - The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH - This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
LS - Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
MH - Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Results may be biased high.
ML - Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Results may be biased low.
R1 - RPD value was outside control limits.
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No WV DeMinimis Standard Available
[1] The de minimis standards utilized to evaluate the screen the analytical data for cis-1,3-dichloropropene and trans-1,3-dichloropropene are the de minimis standards for 1,3-dichloropropene (total) since there are no de minimis standards available for the individual isomers.

Table 5
Adsorbed-Phase Analytical Results, Surface Soil: PAHs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SS-1 (1-2)-01-1001		GVMC-SS-2 (1-2)-01-1017		GVMC-SS-3 (1-2)-01-1003		GVMC-SS-3 (1-2)-02-1004 (Dup)		GVMC-SS-4 (0-1)-01-1007		GVMC-SS-5 (0-1)-01-1009		GVMC-SS-6 (1-2)-01-1011		GVMC-SS-7 (1-2)-01-1013		GVMC-SS-8 (1-2)-01-1015		GVMC-SS-9 (1-2)-01-1019		GVMC-SS-10 (1-2)-01-1021		GVMC-SS-11 (1-2)-01-1023		GVMC-SS-12 (1-2)-01-1025		GVMC-SS-12 (1-2)-02-1026 (Dup)		GVMC-SS-13 (1-2)-01-1031		GVMC-SS-14 (1-2)-01-1033		GVMC-SS-15 (1-2)-01-1035	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(1-2)		(1-2)		(1-2)		(1-2)		(0-1)		(0-1)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)	
Units				mg/Kg																																	
Constituent	CAS#	Residential Soil DeMinimis	Industrial Soil DeMinimis																																		
Acenaphthene	83-32-9	4,100	47,000	0.0075	U	0.0081	U	0.0084	U, ML	0.0087	U	0.0081	U	0.079	U, ED	0.0078	U	0.0081	U	0.0081	U	0.0076	U	0.0844	U, ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Acenapthylene	208-96-8	4,200	51,000	0.0075	U	0.0081	U	0.0084	U, ML	0.0087	U	0.0081	U	0.079	U, ED	0.0078	U	0.0081	U	0.0081	U	0.0076	U	0.0844	U, ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Anthracene	120-12-7	23,000	350,000	0.0075	U	**0.0062**	J	0.0084	U, ML	0.0087	U	0.0081	U	0.079	U, ED	0.0078	U	0.0081	U	0.0081	U	0.0076	U	**0.0357**	J, ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Benzo(a)anthracene	56-55-3	1.5	320	**0.0020**	J	**0.0212**		0.0084	U, ML	0.0087	U	0.0081	U	**0.028**	J, ED	0.0078	U	**0.0067**	J	**0.0041**	J	**0.0031**	J	**0.468**	ED	0.0717	U, ED	**0.0229**	J, ED, R1	0.0782	U, ED	0.0079	U	0.008	U	**0.0023**	J
Benzo(a)pyrene	50-32-8	0.11	21	0.0075	U	**0.0254**		0.0084	U, ML	0.0087	U	0.0081	U	**0.0369**	J, ED	0.0078	U	**0.0075**	J	**0.0051**	J	0.0076	U	**0.607**	ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Benzo(b)fluoranthene	205-99-2	1.1	210	**0.0041**	J, lp	**0.0471**	lp	0.0084	U, ML	0.0087	U	0.0081	U	**0.0869**	ED, lp	0.0078	U	**0.0164**	lp	**0.0137**	lp	**0.0059**	J	**1.23**	ED, lp	0.0717	U, ED	0.0787	U, ED, R1	0.0782	U, ED	0.0079	U, lp	0.008	U, lp	**0.0063**	J, lp
Benzo(g,h,i)perylene	191-24-2	1,800	23,000	0.0075	U	**0.0221**		0.0084	U, ML	0.0087	U	0.0081	U	**0.0245**	J, ED	0.0078	U	**0.0043**	J	**0.0033**	J	**0.0039**	J	**0.455**	ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Benzo(k)fluoranthene	207-08-9	11	2,100	**0.0038**	J, lp	**0.044**	lp	0.0084	U, ML	0.0087	U	0.0081	U	**0.0815**	ED, lp	0.0078	U	**0.0154**	lp	**0.0129**	lp	0.0076	U	**1.15**	ED, lp	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U, lp	0.008	U, lp	**0.0058**	J, lp
Chrysene	218-01-9	110	21,000	**0.0021**	J	**0.0234**		0.0084	U, ML	0.0087	U	0.0081	U	**0.0428**	J, ED	0.0078	U	**0.0081**		**0.0068**	J	**0.0030**	J	**0.672**	ED	0.0717	U, ED	**0.0169**	J, ED, R1	0.0782	U, ED	0.0079	U	0.008	U	**0.0031**	J
Dibenzo(a,h)anthracene	53-70-3	0.11	21	0.0075	U	**0.0046**	J	0.0084	U, ML	0.0087	U	0.0081	U	0.079	U, ED	0.0078	U	0.0081	U	0.0081	U	0.0076	U	**0.108**	ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Fluoranthene	206-44-0	2,400	30,000	0.0075	U	**0.0436**		0.0084	U, ML	0.0087	U	0.0081	U	**0.0702**	J, ED	0.0078	U	**0.0186**		**0.0114**		0.0076	U	**1.22**	ED	0.0717	U, ED	**0.0553**	J, ED	0.0782	U, ED	0.0079	U	0.008	U	**0.0056**	J
Fluorene	86-73-7	2,900	37,000	0.0149	U	0.016	U	0.0167	U, ML	0.0173	U	0.0161	U	0.157	U, ED	0.0156	U	0.0161	U	0.0162	U	0.0151	U	0.168	U, ED	0.143	U, ED	0.157	U, ED	0.156	U, ED	0.0157	U	0.016	U	0.015	U
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	210	0.0075	U	**0.0151**		0.0084	U, ML	0.0087	U	0.0081	U	0.079	U, ED	0.0078	U	**0.0039**	J	0.0081	U	0.0076	U	**0.363**	ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Naphthalene	91-20-3	2.4	110	0.0075	U	**0.0042**	J	0.0084	U, ML	0.0087	U	0.0081	U	0.079	U, ED	0.0078	U	0.0081	U	0.0081	U	0.0076	U	0.0844	U, ED	0.0717	U, ED	0.0787	U, ED	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U
Phenanthrene	85-01-8	23,000	350,000	0.0149	U	**0.0253**		0.0167	U, ML	0.0173	U	0.0161	U	0.157	U, ED	0.0156	U	**0.0062**	**J**	**0.0063**	J	0.0151	U	**0.283**	ED	0.143	U, ED	0.157	U, ED	0.156	U, ED	0.0157	U	0.016	U	0.015	U
Pyrene	129-00-0	2,300	34,000	0.0075	U	**0.0362**		0.0084	U, ML	0.0087	U	0.0081	U	0.079	U, ED	0.0078	U	**0.0134**		**0.0092**		0.0076	U	**0.888**	ED	0.0717	U, ED	0.0787	U, ED, R1	0.0782	U, ED	0.0079	U	0.008	U	0.0075	U

mg/Kg - Milligrams per kilogram
ft-bgs - feet below ground surface
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
ED - Due to the extracts physical characteristics, the analysis was performed at dilution.
R1 - RPD value was outside control limits.
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No WV DeMinimis Standard Available

[1] The de minimis standards utilized to screen the m,p-cresol analytical data are the more conservative (i.e., lower) de minimis standards of the individual m- and p- isomers.

Table 6
Adsorbed-Phase Analytical Results, Surface Soil: SVOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SS-1 (1-2)-01-1001		GVMC-SS-2 (1-2)-01-1017		GVMC-SS-3 (1-2)-01-1003		GVMC-SS-3 (1-2)-02-1004 (Dup)		GVMC-SS-4 (0-1)-01-1007		GVMC-SS-5 (0-1)-01-1009		GVMC-SS-6 (1-2)-01-1011		GVMC-SS-7 (1-2)-01-1013		GVMC-SS-8 (1-2)-01-1015		GVMC-SS-9 (1-2)-01-1019		GVMC-SS-10 (1-2)-01-1021		GVMC-SS-11 (1-2)-01-1023		GVMC-SS-12 (1-2)-01-1025		GVMC-SS-12 (1-2)-02-1026 (Dup)		GVMC-SS-13 (1-2)-01-1031		GVMC-SS-14 (1-2)-01-1033		GVMC-SS-15 (1-2)-01-1035	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(1-2)		(1-2)		(1-2)		(1-2)		(0-1)		(0-1)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)	
Units				mg/Kg																																	
Constituent	CAS#	Residential Soil DeMinimis	Industrial Soil DeMinimis																																		
Acenaphthene	83-32-9	4,100	47,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Acenapthylene	208-96-8	4,200	51,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Anthracene	120-12-7	23,000	350,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Benzo(a)anthracene	56-55-3	1.5	320	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Benzo(a)pyrene	50-32-8	0.11	21.0	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Benzo(b)fluoranthene	205-99-2	1.1	210	0.374	U	0.399	U	0.419	U	0.426	U, lp	0.408	U	0.395	U, lp	0.395	U	0.401	U	0.41	U	0.379	U, lp	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Benzo(g,h,i)perylene	191-24-2	1,800	23,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Benzo(k)fluoranthene	207-08-9	11	2,100	0.374	U	0.399	U	0.419	U	0.426	U, lp	0.408	U	0.395	U, lp	0.395	U	0.401	U	0.41	U	0.379	U, lp	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Benzoic Acid	65-85-0	250,000	1,000,000	5.61	U	5.99	U	6.28	U	6.39	U	6.13	U	5.93	U	5.93	U	6.02	U	6.15	U	5.68	U	62.7	U, ED	5.38	U	58.8	U, ED	58.1	U, ED	6.0	U	6.11	U	5.53	U, CH
Benzyl Alcohol	100-51-6	6,300	82,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
4-Bromophenyl phenyl ether	101-55-3	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Butyl benzyl phthalate	85-68-7	290	12,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Carbazole	86-74-8	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
4-Chloro-3-methylphenol	59-50-7	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
4-Chloroaniline	106-47-8	2.7	110	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Bis(2-Chloroethoxy)methane	111-91-1	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Bis(2-chloroethyl)ether	111-44-4	0.24	11	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Bis(2-chloroisopropyl)ether	108-60-1	5.1	230	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
2-Chloronaphthalene	91-58-7	5,000	50,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
2-Chlorophenol	95-57-8	340	3,900	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Chrysene	218-01-9	110	21,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	**0.0597**	J	0.395	U	0.401	U	0.41	U	0.379	U	**0.858**	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Dibenzo(a,h)anthracene	53-70-3	0.11	21	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Dibenzofuran	132-64-9	78	120	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
1,2-Dichlorobenzene	95-50-1	380	380	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
1,3-Dichlorobenzene	541-73-1	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
1,4-Dichlorobenzene	106-46-7	2.8	120	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
3,3'-Dichlorobenzidine	91-94-1	1.2	51	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
2,4-Dichlorophenol	120-83-2	190	2,500	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Diethyl phthalate	84-66-2	51,000	660,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
2,4-Dimethylphenol	105-67-9	1,300	16,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Dimethyl phthalate	131-11-3	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Di-n-butyl phthalate	84-74-2	6,300	82,000	2.99	U	3.19	U	3.35	U	3.41	U	3.27	U	3.16	U	3.16	U	3.21	U	3.28	U	3.03	U	33.4	U, ED	2.87	U	31.3	U, ED	31	U, ED	3.2	U	3.26	U	2.95	U
4,6-Dinitro-2-methylphenol	534-52-1	NA	NA	0.936	U	0.999	U	1.05	U	1.07	U	1.02	U	0.989	U	0.989	U	1.0	U	1.02	U	0.947	U	10.5	U, ED	0.896	U	9.8	U, ED	9.68	U, ED	1.0	U	1.02	U	0.923	U
2,4-Dinitrophenol	51-28-5	130	1,600	0.936	U	0.999	U	1.05	U	1.07	U	1.02	U	0.989	U	0.989	U	1.0	U	1.02	U	0.947	U	10.5	U, ED	0.896	U	9.8	U, ED	9.68	U, ED	1.0	U	1.02	U	0.923	U
2,4-Dinitrotoluene	121-14-2	1.7	74	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
2,6-Dinitrotoluene	606-20-2	0.36	15	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Di-n-octyl phthalate	117-84-0	NA	NA	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Bis(2-ethylhexyl)phthalate	117-81-7	39	1,600	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	**1.38**	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Fluoranthene	206-44-0	2,400	30,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Fluorene	86-73-7	2,900	37,000	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Hexachloro-1,3-butadiene	87-68-3	1.3	17	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Hexachlorobenzene	118-74-1	0.22	10	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Hexachlorocyclopentadiene	77-47-4	1.9	8.0	0.374	U, L2	0.399	U	0.419	U, L2	0.426	U, L2	0.408	U, L2	0.395	U, L2	0.395	U, L2	0.401	U, L2	0.41	U, L2	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U, L2
Hexachloroethane	67-72-1	2.0	86	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U

Table 6
Adsorbed-Phase Analytical Results, Surface Soil: SVOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SS-1 (1-2)-01-1001		GVMC-SS-2 (1-2)-01-1017		GVMC-SS-3 (1-2)-01-1003		GVMC-SS-3 (1-2)-02-1004 (Dup)		GVMC-SS-4 (0-1)-01-1007		GVMC-SS-5 (0-1)-01-1009		GVMC-SS-6 (1-2)-01-1011		GVMC-SS-7 (1-2)-01-1013		GVMC-SS-8 (1-2)-01-1015		GVMC-SS-9 (1-2)-01-1019		GVMC-SS-10 (1-2)-01-1021		GVMC-SS-11 (1-2)-01-1023		GVMC-SS-12 (1-2)-01-1025		GVMC-SS-12 (1-2)-02-1026 (Dup)		GVMC-SS-13 (1-2)-01-1031		GVMC-SS-14 (1-2)-01-1033		GVMC-SS-15 (1-2)-01-1035	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(1-2)		(1-2)		(1-2)		(1-2)		(0-1)		(0-1)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)		(1-2)	
Units				mg/Kg																																	
Constituent	CAS#	Residential Soil DeMinimis	Industrial Soil DeMinimis																																		
Indeno(1,2,3-cd)pyrene	**193-39-5**	**1.1**	**210**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Isophorone	**78-59-1**	**570**	**24,000**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
1-Methylnaphthalene	**90-12-0**	**24**	**390**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
2-Methylnaphthalene	**91-57-6**	**310**	**4,700**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
2-Methylphenol (o-Cresol)	**95-48-7**	**3,200**	**41,000**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
3&4-Methylphenol (m&p Cresol)	**15831-10-4**	**3,200**	**41,000**	0.749	U	0.798	U	0.838	U	0.852	U	0.817	U	0.791	U	0.791	U	0.803	U	0.819	U	0.758	U	8.36	U, ED	0.717	U	7.84	U, ED, MH	7.74	U, ED	0.801	U	0.815	U	0.738	U
2-Nitroaniline	**88-74-4**	**630**	**8,000**	0.936	U	0.999	U	1.05	U	1.07	U	1.02	U	0.989	U	0.989	U	1.0	U	1.02	U	0.947	U	10.5	U, ED	0.896	U	9.8	U, ED	9.68	U, ED	1.0	U	1.02	U	0.923	U
3-Nitroaniline	**99-09-2**	**NA**	**NA**	0.936	U	0.999	U	1.05	U	1.07	U	1.02	U	0.989	U	0.989	U	1.0	U	1.02	U	0.947	U	10.5	U, ED	0.896	U	9.8	U, ED, MH	9.68	U, ED	1.0	U	1.02	U	0.923	U
4-Nitroaniline	**100-01-6**	**NA**	**NA**	0.936	U, CH	0.999	U	1.05	U, CH	1.07	U, CH	1.02	U, CH	0.989	U, CH	0.989	U, CH	1.0	U, CH	1.02	U, CH	0.947	U	10.5	U, ED	0.896	U	9.8	U, ED, ML	9.68	U, ED	1.0	U	1.02	U	0.923	U, CL
Nitrobenzene	**98-95-3**	**5.5**	**240**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
2-Nitrophenol	**88-75-5**	**NA**	**NA**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
4-Nitrophenol	**100-02-7**	**NA**	**NA**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
N-Nitrosodimethylamine	**62-75-9**	**0.002**	**0.35**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
N-Nitrosodi-n-propylamine	**621-64-7**	**0.078**	**3.3**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
N-Nitrosodiphenylamine	**86-30-6**	**110**	**7,200**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Pentachlorophenol	**87-86-5**	**1**	**40**	0.936	U	0.999	U	1.05	U	1.07	U	1.02	U	0.989	U	0.989	U	1.0	U	1.02	U	0.947	U	10.5	U, ED	0.896	U	9.8	U, ED	9.68	U, ED	1.0	U	1.02	U	0.923	U
Phenanthrene	**85-01-8**	**23,000**	**350,000**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
Phenol	**108-95-2**	**19,000**	**250,000**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED, MH	3.87	U, ED	0.4	U	0.407	U	0.369	U
Pyrene	**129-00-0**	**2,300**	**34,000**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
1,2,4-Trichlorobenzene	**120-82-1**	**24**	**280**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U
2,4,5-Trichlorophenol	**95-95-4**	**6,300**	**82,000**	0.936	U	0.999	U	1.05	U	1.07	U	1.02	U	0.989	U	0.989	U	1.0	U	1.02	U	0.947	U	10.5	U, ED	0.896	U	9.8	U, ED	9.68	U, ED	1.0	U	1.02	U	0.923	U
2,4,6-Trichlorophenol	**88-06-2**	**49**	**820**	0.374	U	0.399	U	0.419	U	0.426	U	0.408	U	0.395	U	0.395	U	0.401	U	0.41	U	0.379	U	4.18	U, ED	0.358	U	3.92	U, ED	3.87	U, ED	0.4	U	0.407	U	0.369	U

mg/Kg - Milligrams per kilogram
ft-bgs - feet below ground surface
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
CH - The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
ED - Due to the extracts physical characteristics, the analysis was performed at dilution.
LS - Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
lp - Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample resutls included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
MH - Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Results may be biased high.
ML - Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Results may be biased low.
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No WV DeMinimis Standard Available

[1] The de minimis standards utilized to screen the m,p-cresol analytical data are the more conservative (i.e., lower) de minimis standards of the individual m- and p- isomers.

Table 7
Adsorbed-Phase Analytical Results, Surface Soil: Dioxins and Furans
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID					GVMC-SS-3 (1-2)-01-1003		2,3,7,8-TCDD Equivalent	GVMC-SS-3 (1-2)-02-1004 (Dup)		2,3,7,8-TCDD Equivalent	GVMC-SS-4 (0-1)-01-1007		2,3,7,8-TCDD Equivalent	GVMC-SS-5 (0-1)-01-1009		2,3,7,8-TCDD Equivalent	GVMC-SS-6 (1-2)-01-1011		2,3,7,8-TCDD Equivalent	GVMC-SS-7 (1-2)-01-1013		2,3,7,8-TCDD Equivalent	GVMC-SS-8 (1-2)-01-1015		2,3,7,8-TCDD Equivalent
Sample Date					07/23/24			07/23/24			07/23/24			07/23/24			07/23/24			07/24/24			07/24/24		
Sample Depth (ft-bgs)					(1-2)			(1-2)			(0-1)			(0-1)			(1-2)			(1-2)			(1-2)		
Units					ng/Kg		ng/Kg	ng/Kg		ng/Kg	ng/Kg		ng/Kg	ng/Kg		ng/Kg	ng/Kg		ng/Kg	ng/Kg		ng/Kg	ng/Kg		ng/Kg
Constituent	**CAS#**	**2,3,7,8-TCDD Toxicity Equivalency Factors**	**2,3,7,8-TCDD Residential De Minimis Standard**	**2,3,7,8-TCDD Industrial De Minimis Standard**																					
2,3,7,8-TCDD	1746-01-6	1	5.2	240	0.089	U	0.089	0.074	U	0.074	0.10	U	0.10	**0.89**		**0.89**	0.12	U	0.12	0.094	U	0.094	0.077	U	0.077
1,2,3,7,8-PeCDD	40321-76-4	1	No Standard	No Standard	0.085	U	0.085	0.035	U	0.035	0.041	U	0.041	**2.8**	J	**2.8**	0.044	U	0.044	0.11	U	0.11	0.089	U	0.089
1,2,3,4,7,8-HxCDD	39277-28-6	0.1	No Standard	No Standard	**0.46**	JI	**0.046**	**0.27**	J	**0.027**	**0.20**	J	**0.020**	**4.0**		**0.4**	**0.15**	JI	**0.015**	**0.18**	J	**0.018**	**0.16**	JI	**0.016**
1,2,3,6,7,8-HxCDD	57653-85-7	0.1	No Standard	No Standard	**0.59**	J	**0.059**	**0.16**	J	**0.016**	**0.12**	J	**0.012**	**6.6**		**0.66**	0.070	U	0.0070	0.11	U	0.011	0.072	U	0.0072
1,2,3,7,8,9-HxCDD	19408-74-3	0.1	No Standard	No Standard	**0.70**	J	**0.070**	**0.20**	JI	**0.020**	0.074	U	0.0074	**5.8**		**0.58**	0.071	U	0.0071	0.12	U	0.012	0.077	U	0.0077
1,2,3,4,6,7,8-HpCDD	35822-46-9	0.01	No Standard	No Standard	**12**		**0.12**	**4.5**		**0.045**	**1.8**	J	**0.018**	**54**		**0.54**	**0.54**	J	**0.0054**	**0.97**	J	**0.0097**	**0.45**	J	**0.0045**
OCDD	3268-87-9	0.003	No Standard	No Standard	**120**		**0.36**	**74**		**0.222**	**110**		**0.330**	**700**		**2.1**	**20**		**0.060**	**90**		**0.27**	**9.9**		**0.0297**
2,3,7,8-TCDF	51207-31-9	0.1	No Standard	No Standard	0.083	J	**0.0083**	**0.093**	J	**0.0093**	0.071	U	0.0071	**5.8**		**0.58**	**0.082**	JI	**0.0082**	**0.35**	JI	**0.035**	0.088	U	0.0088
1,2,3,7,8-PeCDF	57117-41-6	0.03	No Standard	No Standard	0.085	U	0.0026	0.058	U	0.00174	0.062	U	0.00186	**6.4**		**0.192**	0.055	U	0.0017	0.14	U	0.0042	0.068	U	0.00204
2,3,4,7,8-PeCDF	57117-31-4	0.3	No Standard	No Standard	**0.084**	JI	**0.0252**	0.035	U	0.0105	0.037	U	0.0111	**12**		**3.6**	0.035	U	0.0105	0.12	U	0.036	0.060	U	0.018
1,2,3,4,7,8-HxCDF	70648-26-9	0.1	No Standard	No Standard	**0.58**	J	**0.058**	**0.26**	JI	**0.026**	**0.094**	JI	**0.0094**	**13**		**1.3**	0.033	U	0.0033	0.048	U	0.0048	0.098	U	0.0098
1,2,3,6,7,8-HxCDF	57117-44-9	0.1	No Standard	No Standard	**0.25**	J	**0.025**	0.087	U	0.0087	**0.072**	JI	**0.0072**	**12**		**1.2**	0.036	U	0.0036	0.051	U	0.0051	0.098	U	0.0098
2,3,4,6,7,8-HxCDF	60851-34-5	0.1	No Standard	No Standard	**0.37**	J	**0.037**	**0.082**	JI	**0.0082**	**0.12**	J	**0.012**	**15**		**1.5**	0.036	U	0.0036	0.11	U	0.011	0.097	U	0.0097
1,2,3,7,8,9-HxCDF	72918-21-9	0.1	No Standard	No Standard	0.12	U	0.012	0.10	U	0.010	**0.12**	JI	**0.012**	**3.3**	J	**0.33**	**0.068**	JI	**0.0068**	0.065	U	0.0065	0.12	U	0.012
1,2,3,4,6,7,8-HpCDF	67562-39-4	0.01	No Standard	No Standard	**4.2**	J	**0.42**	**1.2**	J	**0.012**	**0.44**	J	**0.0044**	**51**		**0.51**	0.12	U	0.0012	0.13	U	0.0013	0.14	U	0.0014
1,2,3,4,7,8,9-HpCDF	55673-89-7	0.01	No Standard	No Standard	**0.24**	U	0.0024	0.18	U	0.0018	0.16	U	0.0016	**3.5**		**0.035**	0.15	U	0.0015	0.10	U	0.0010	0.17	U	0.0017
OCDF	39001-02-0	0.003	No Standard	No Standard	**6.4**	J	**0.0192**	**2.2**	J	**0.0066**	**0.46**	J	**0.00138**	**18**		**0.054**	0.15	U	0.00045	0.19	U	0.00057	0.40	U	0.0012
Total 2,3,7,8-TCDD Equivalent	NA	NA	5.2	240	NA		**1.4387**	NA		**0.5338**	NA		**0.59644**	NA		17.271	NA		**0.29930**	NA		**0.63017**	NA		**0.3055**
TOTAL TCDD	NA	NA	No Standard	No Standard	**0.270**	J	NA	0.074	U	NA	**0.15**	J	NA	**59**		NA	0.12	U	NA	0.094	U	NA	0.077	U	NA
TOTAL PeCDD	NA	NA	No Standard	No Standard	**0.650**	J	NA	0.035	U	NA	0.041	U	NA	**80**		NA	0.044	U	NA	0.11	U	NA	0.089	U	NA
TOTAL HxCDD	NA	NA	No Standard	No Standard	**6.9**		NA	**2.1**	J	NA	**0.93**	J	NA	**120**		NA	0.070	U	NA	**0.18**	J	NA	0.072	U	NA
TOTAL HpCDD	NA	NA	No Standard	No Standard	**23**		NA	**8.9**		NA	**3.5**	J	NA	**110**		NA	1.0	U	NA	**0.97**	J	NA	**0.90**	J	NA
TOTAL TCDF	NA	NA	No Standard	No Standard	**0.22**	J	NA	**0.20**	J	NA	**0.21**	J	NA	**170**		NA	0.067	U	NA	**0.26**	J	NA	0.088	U	NA
TOTAL PeCDF	NA	NA	No Standard	No Standard	**2.1**	J	NA	**0.39**	J	NA	0.037	U	NA	**140**		NA	0.035	U	NA	0.12	U	NA	0.060	U	NA
TOTAL HxCDF	NA	NA	No Standard	No Standard	**5.2**		NA	**0.81**	J	NA	**0.41**	J	NA	**130**		NA	0.033	U	NA	0.048	U	NA	0.097	U	NA
TOTAL HpCDF	NA	NA	No Standard	No Standard	**4.2**	J	NA	**1.2**	J	NA	**0.44**	J	NA	**62**		NA	0.12	U	NA	0.10	U	NA	0.14	U	NA

ng/Kg - Nanograms per kilogram
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Estimated Value
I - Isotope ratio out of specification
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - Not Applicable

Table 8
Adsorbed-Phase Analytical Results, Subsurface Soil: Metals
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID	Sample Date	Sample Depth (ft-bgs)	Constituent	Arsenic		Barium		Cadmium		Chromium (Total) [1]		Lead		Selenium		Silver		Mercury	
			CAS#	7440-38-2		7440-39-3		7440-43-9		7440-47-3		7439-92-1		7782-49-2		7440-22-4		7439-97-6	
			Units	mg/Kg															
West Virginia Residential Soil DeMinimis Standards				**0.68**		**15,000**		**37**		**120,000**		**400**		**390**		**390**		**3.1**	
West Virginia Industrial Soil DeMinimis Standards				**30**		**220,000**		**530**		**1,000,000**		**800**		**5,800**		**5,800**		**3.1**	
WV Natural Background Values				**13.1**		**565**		**0.5**		**57.4**		**38**		**0.8**		**1.0**		**0.09**	
GVMC-SB-1(9-10)-01-1002	07/22/24	(9-10)		**3.9**	J	**30.1**		**0.25**	J	**16.8**		**8.9**		6.3	U	3.1	U	0.026	U
GVMC-SB-2(7-8)-01-1018	07/31/24	(7-8)		**9.3**		**218**		1.4	U	**34.9**		**31.2**		**1.6**	J	3.4	U	**0.11**	
GVMC-SB-3(9-10)-01-1005	07/23/24	(9-10)		**28.7**		**86.7**		**0.72**	J	**24.4**		**16.2**		7.8	U	3.9	U	**0.058**	
GVMC-SB-3(9-10)-02-1006	07/23/24	(9-10)		**34**	J	**87.9**		13.8	U	**33.7**	J	**25**	J	69	U	34.5	U	**0.085**	
GVMC-SB-4(6-7)-01-1008	07/23/24	(6-7)		**14.2**		**47.9**		**2.4**		**12.8**		**27.7**		6.4	U	3.2	U	**0.035**	
GVMC-SB-5(7-8)-01-1010	07/23/24	(7-8)		**4.3**	J	**122**		1.3	U	**11.8**		**12.7**		6.3	U	3.1	U	0.026	U
GVMC-SB-6(7-8)-01-1012	07/23/24	(7-8)		**18.5**		**62.6**		**0.83**	J	**24.7**		**24.7**		6.5	U	3.3	U	**0.042**	
GVMC-SB-7(7-8)-01-1014	07/24/24	(7-8)		**20.2**		**46.5**		**0.83**	J	**22.9**		**27**		6.1	U	3.0	U	**0.044**	
GVMC-SB-8(6-7)-01-1016	07/24/24	(6-7)		**6.4**		**170**		1.2	U	**25.5**		**16**		6.0	U	3.0	U	0.024	U
GVMC-SB-9(7-8)-01-1020	07/31/24	(7-8)		6.1	U	**22**		1.2	U	**20.5**		**10.9**		6.1	U	3.1	U	**0.05**	
GVMC-SB-10(7-8)-01-1022	08/01/24	(7-8)		**13.2**		**61.8**		1.2	U	**50.2**		**37.5**		**3.3**	J	3.1	U	**0.032**	
GVMC-SB-11(7-8)-01-1024	08/01/24	(7-8)		**5.5**	J	**88.8**		1.2	U	**24.5**		**15.6**		**1.2**	J	3.1	U	**0.054**	
GVMC-SB-12(7-8)-01-1027	08/01/24	(7-8)		**11.5**		**33.6**		1.3	U	**40.3**		**14.3**		**1.5**	J	3.3	U	**0.063**	
GVMC-SB-12(7-8)-02-1028	08/01/24	(7-8)		**9.9**		**46.6**		1.4	U	**60.3**		**17**		**1.9**	J	3.5	U	**0.22**	
GVMC-SB-13(7-8)-01-1032	08/02/24	(7-8)		**6.1**	J	**29.6**		1.3	U	**21.8**		**17.1**		**1.3**	J	3.2	U	**0.21**	
GVMC-SB-14(7-8)-01-1034	08/02/24	(7-8)		**7.1**		**20.2**		1.3	U	**20.7**		**13.1**		**1.4**	J	3.2	U	**0.11**	
GVMC-SB-15(7-8)-01-1036	08/06/24	(7-8)		**8.6**		**74**		1.2	U	**24.8**		**19.1**		**1.6**	J	3.0	U	**0.023**	J

mg/Kg - Milligrams per kilogram

ft-bgs - feet below ground surface

U - Analyte Not Detected Above Laboratory Reporting Limit

J - Analyte Detected Below Laboratory Quantitation Limit

Positive Detections are Bold

WV DeMinimis Standard Exceedances are Shaded

NA - No Screening Value Available

[1] There are no de minimis standards for total chromium available. Therefore, the trivalent chromium de minimis standards are utilized to screen total chromium results

Table 9
Adsorbed Phase Analytical Results, Subsurface Soil: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SB-1(9-10)-01-1002		GVMC-SB-2(7-8)-01-1018		GVMC-SB-3(9-10)-01-1005		GVMC-SB-3(9-10)-02-1006		GVMC-SB-4(6-7)-01-1008		GVMC-SB-5(7-8)-01-1010		GVMC-SB-6(7-8)-01-1012		GVMC-SB-7(7-8)-01-1014		GVMC-SB-8(6-7)-01-1016		GVMC-SB-9(7-8)-01-1020		GVMC-SB-10(7-8)-01-1022		GVMC-SB-11(7-8)-01-1024		GVMC-SB-12(7-8)-01-1027		GVMC-SB-12(7-8)-02-1028		GVMC-SB-13(7-8)-01-1032		GVMC-SB-14(7-8)-01-1034		GVMC-SB-15(7-8)-01-1036	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(9-10)		(7-8)		(9-10)		(9-10)		(6-7)		(7-8)		(7-8)		(7-8)		(6-7)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)	
Units				mg/Kg																																	
Constituent	CAS#	West Virginia Residential Soil DeMinimis Standards	West Virginia Industrial Soil DeMinimis Standards																																		
Acetone	67-64-1	61,000	110,000	0.0465	U, CL	**0.113**		**0.0915**	CL, ML	0.0552	U, CL	0.0507	U, CL	**0.156**	CL	**0.0466**	J, CL	**0.0397**	J, CL	**0.397**	CL	0.0485	U	**0.0737**		**0.0567**	J	0.0501	U	0.0559	U	0.0511	U	0.0558	U	**0.205**	1c, CL
Benzene	71-43-2	1.2	54	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Bromochloromethane	74-97-5	NA	NA	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Bromodichloromethane	75-27-4	0.31	14	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Bromoform	75-25-2	20	910	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U, R1	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Bromomethane	74-83-9	7.3	32	0.0047	U, 2c, CL	0.0059	U, 2c	0.0053	U, 2c, CL, R1	0.0055	U, 2c, CL	0.0051	U, 2c, CL	0.0053	U, 2c, CL	0.0054	U, 2c, CL	0.0043	U, 2c, CL	0.005	U, 2c, CL	0.0048	U, 2c	0.0054	U, 2c	0.0061	U, 2c	0.005	U, 2c	0.0056	U, 2c	0.0051	U, 2c	0.0056	U, 2c	0.0048	U, 1c, 2c
2-Butanone	78-93-3	28,000	28,000	**0.0033**	J	**0.0073**	J	0.0106	U	0.011	U	0.0101	U	**0.0177**		0.0107	U	0.0086	U	**0.0435**		0.0097	U	0.0108	U	**0.0103**	J	0.010	U, R1	0.0112	U	0.0102	U	0.0112	U	**0.0274**	1c
Carbon disulfide	75-15-0	740	740	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	**0.0043**	J	0.005	U	0.0056	U	0.0051	U	0.0056	U	**0.0276**	1c, CL
Carbon tetrachloride	56-23-5	0.7	31	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Chlorobenzene	108-90-7	290	760	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Chloroethane	75-00-3	2,100	2,100	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Chloroform	67-66-3	0.34	15	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	**0.0013**	J	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U, R1	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Chloromethane	74-87-3	120	500	0.0047	U, CL	0.0059	U	0.0053	U, CL, R1	0.0055	U, CL	0.0051	U, CL	0.0053	U, CL	0.0054	U, CL	0.0043	U, CL	0.005	U, CL	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Dibromochloromethane	124-48-1	8.3	390	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,2-Dichlorobenzene	95-50-1	380	380	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,3-Dichlorobenzene	541-73-1	NA	NA	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,4-Dichlorobenzene	106-46-7	2.8	120	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,1-Dichloroethane	75-34-3	3.8	170	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,2-Dichloroethane	107-06-2	0.5	22	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,2-Dichloroethene (Total)	540-59-0	0.5	22	0.0093	U	0.0117	U	0.0106	U	0.0011	U	0.0101	U	0.0107	U	0.0107	U	0.0086	U	0.010	U	0.0097	U	0.0108	U	0.0121	U	0.010	U	0.0112	U	0.0102	U	0.0112	U	0.0097	U
1,1-Dichloroethene	75-35-4	240	1,100	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
cis-1,2-Dichloroethene	156-59-2	17	80	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
trans-1,2-Dichloroethene	156-60-5	75	320	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,2-Dichloropropane	78-87-5	2.7	71	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
cis-1,3-Dichloropropene [1]	10061-01-5	1.9	86	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
trans-1,3-Dichloropropene [1]	10061-02-6	1.9	86	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Ethylbenzene	100-41-4	6.2	270	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
2-Hexanone	591-78-6	NA	NA	**0.0024**	J	0.0117	U	0.0106	U, R1	0.011	U	0.0101	U	0.0107	U	0.0107	U	0.0086	U	**0.0027**	J	0.0097	U	0.0108	U	0.0121	U	0.01	U, R1	0.0112	U	0.0102	U	0.0112	U	**0.0108**	U, 1c
Isopropylbenzene	98-82-8	270	270	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Methylene chloride	75-09-2	58	3,300	0.0047	U, CL, IH	0.0059	U	0.0053	U, CL, IH, R1	0.0055	U, CL, IH	0.0051	U, CL, IH	0.0053	U, CL	0.0054	U, CL	0.0043	U, CL, IH	0.005	U, CL, IH	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
4-Methyl-2-pentanone	108-10-1	3,400	3,400	0.0093	U	0.0117	U	0.0106	U, R1	0.011	U	0.0101	U	0.0107	U	0.0107	U	0.0086	U	0.01	U	0.0097	U	0.0108	U	0.0121	U	0.01	U, R1	0.0112	U	0.0102	U	0.0112	U	0.0097	U, 1c
Methyl tert butyl ether	1634-04-4	50	2,200	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Naphthalene	91-20-3	2.4	110	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U, R1	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Styrene	100-42-5	870	870	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,1,2,2-Tetrachloroethane	79-34-5	0.64	28	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U, R1	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Tetrachloroethene	127-18-4	25	170	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Toluene	108-88-3	820	820	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	**0.0219**		0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,2,4-Trichlorobenzene	120-82-1	24	280	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U, R1	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,1,1-Trichloroethane	71-55-6	640	640	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,1,2-Trichloroethane	79-00-5	1.2	6.8	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U, R1	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Trichloroethylene	79-01-6	1.0	20	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,2,4-Trimethylbenzene	95-63-6	220	220	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
1,3,5-Trimethylbenzene	108-67-8	180	180	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Vinyl chloride	75-01-4	0.061	18	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
Xylenes	1330-20-7	260	260	0.014	U, LS	0.0176	U	0.0158	U, LS, RS	0.0165	U, LS	0.0152	U, LS	0.016	U, LS	0.0161	U, LS	0.0129	U, LS	0.0149	U, LS	0.0145	U	0.0161	U	0.0182	U	0.015	U	0.0168	U	0.0153	U	0.0167	U	0.0145	U
o-Xylene	95-47-6	260	260	0.0047	U	0.0059	U	0.0053	U, R1	0.0055	U	0.0051	U	0.0053	U	0.0054	U	0.0043	U	0.005	U	0.0048	U	0.0054	U	0.0061	U	0.005	U	0.0056	U	0.0051	U	0.0056	U	0.0048	U, 1c
m,p-Xylene	179601-23-1	260	260	0.0093	U, L2	0.0117	U	0.0106	U, L2, R1	0.011	U, L2	0.0101	U, L2	0.0107	U, L2	0.0107	U, L2	0.0086	U, L2	0.01	U, L2	0.0097	U	0.0108	U	0.0121	U	0.01	U	0.0112	U	0.0102	U	0.0112	U	0.0097	U, 1c

mg/Kg - Milligrams per kilogram
ft-bgs - feet below ground surface
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
1c - A matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c - The analyte did not meet the method recommended minimum RF.
CL - The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IH - This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
LS - Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
ML - Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Results may be biased low.
R1 - RPD value was outside control limits.
RS - The RPD value in one fo the constituent analytes was outside the control limits
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No WV DeMinimis Standard Available
[1] The de minimis standards utilized to evaluate the screen the analytical data for cis-1,3-dichloropropene and trans-1,3-dichloropropene are the de minimis standards for 1,3-dichloropropene (total) since there are no de minimis standards available for the individual isomers.

Table 10
Adsorbed-Phase Analytical Results, Subsurface Soil: PAHs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SB-1(9-10)-01-1002		GVMC-SB-2(7-8)-01-1018		GVMC-SB-3(9-10)-01-1005		GVMC-SB-3(9-10)-02-1006		GVMC-SB-4(6-7)-01-1008		GVMC-SB-5(7-8)-01-1010		GVMC-SB-6(7-8)-01-1012		GVMC-SB-7(7-8)-01-1014		GVMC-SB-8(6-7)-01-1016		GVMC-SB-9(7-8)-01-1020		GVMC-SB-10(7-8)-01-1022		GVMC-SB-11(7-8)-01-1024		GVMC-SB-12(7-8)-01-1027		GVMC-SB-12(7-8)-02-1028		GVMC-SB-13(7-8)-01-1032		GVMC-SB-14(7-8)-01-1034		GVMC-SB-15(7-8)-01-1036	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(9-10)		(7-8)		(9-10)		(9-10)		(6-7)		(7-8)		(7-8)		(7-8)		(6-7)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)	
Units				mg/Kg																																	
Constituent	CAS#	Residential Soil DeMinimis	Industrial Soil DeMinimis																																		
Acenaphthene	83-32-9	4,100	47,000	0.0086	U	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U, R1	0.0093	U	0.0086	U	0.0085	U	0.008	U
Acenapthylene	208-96-8	4,200	51,000	0.0086	U	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U, R1	0.0093	U	0.0086	U	0.0085	U	0.008	U
Anthracene	120-12-7	23,000	350,000	**0.0024**	J	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U, R1	0.0093	U	0.0086	U	0.0085	U	**0.0038**	J
Benzo(a)anthracene	56-55-3	1.5	320	**0.0066**	J	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	**0.0053**	J	0.0087	U	0.0093	U	0.0086	U	0.0085	U	**0.0146**	
Benzo(a)pyrene	50-32-8	0.11	21.0	**0.0059**	J	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U	0.0093	U	0.0086	U	0.0085	U	**0.0131**	
Benzo(b)fluoranthene	205-99-2	1.1	210	**0.0097**	lp	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U, lp	**0.013**	lp	0.0087	U	0.0093	U	0.0086	U, lp	0.0085	U, lp	**0.0296**	
Benzo(g,h,i)perylene	191-24-2	1,800	23,000	**0.0024**	J	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U	0.0093	U	0.0086	U	0.0085	U	**0.0075**	J
Benzo(k)fluoranthene	207-08-9	11	2,100	**0.0091**	lp	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	**0.0021**	J, lp	**0.012**	lp	0.0087	U	0.0093	U	**0.0021**	J, lp	0.0085	U, lp	**0.0273**	
Chrysene	218-01-9	110	21,000	**0.0056**	J	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	**0.0062**	J	0.0087	U	0.0093	U	0.0086	U	0.0085	U	**0.015**	
Dibenzo(a,h)anthracene	53-70-3	0.11	21	0.0086	U	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U	0.0093	U	0.0086	U	0.0085	U	0.008	U
Fluoranthene	206-44-0	2,400	30,000	**0.0109**		0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	**0.0137**		0.0087	U	0.0093	U	0.0086	U	0.0085	U	**0.0301**	
Fluorene	86-73-7	2,900	37,000	0.0171	U	0.0182	U	0.0203	U, R1	0.0186	U	0.0172	U	0.017	U	0.0176	U	0.0165	U	0.0156	U	0.016	U	0.0163	U	0.0163	U	0.0173	U, R1	0.0185	U	0.017	U	0.0169	U	0.016	U
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	210	0.0086	U	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U	0.0093	U	0.0086	U	0.0085	U	**0.0061**	J
Naphthalene	91-20-3	2.4	110	0.0086	U	0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	0.0082	U	0.0087	U, R1	0.0093	U	0.0086	U	0.0085	U	0.008	U
Phenanthrene	85-01-8	23,000	350,000	**0.0077**	J	0.0182	U	0.0203	U, R1	0.0186	U	0.0172	U	0.017	U	0.0176	U	0.0165	U	0.0156	U	0.016	U	0.0163	U	**0.0077**	J	0.0173	U, R1	0.0185	U	**0.0059**	J	0.0169	U	**0.0197**	
Pyrene	129-00-0	2,300	34,000	**0.0091**		0.0091	U	0.0102	U, R1	0.0093	U	0.0086	U	0.0085	U	0.0088	U	0.0083	U	0.0078	U	0.008	U	0.0082	U	**0.0111**		0.0087	U	0.0093	U	0.0086	U	0.0085	U	**0.0268**	

mg/Kg - Milligrams per kilogram
ft-bgs - feet below ground surface
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
lp - Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
R1 - RPD value was outside control limits.
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No WV DeMinimis Standard Available

[1] The de minimis standards utilized to screen the m,p-cresol analytical data are the more conservative (i.e., lower) de minimis standards of the individual m- and p- isomers.

Table 11
Adsorbed-Phase Analytical Results, Subsurface Soil: SVOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SB-1(9-10)-01-1002		GVMC-SB-2(7-8)-01-1018		GVMC-SB-3(9-10)-01-1005		GVMC-SB-3(9-10)-02-1006		GVMC-SB-4(6-7)-01-1008		GVMC-SB-5(7-8)-01-1010		GVMC-SB-6(7-8)-01-1012		GVMC-SB-7(7-8)-01-1014		GVMC-SB-8(6-7)-01-1016		GVMC-SB-9(7-8)-01-1020		GVMC-SB-10(7-8)-01-1022		GVMC-SB-11(7-8)-01-1024		GVMC-SB-12(7-8)-01-1027		GVMC-SB-12(7-8)-02-1028		GVMC-SB-13(7-8)-01-1032		GVMC-SB-14(7-8)-01-1034		GVMC-SB-15(7-8)-01-1036	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(9-10)		(7-8)		(9-10)		(9-10)		(6-7)		(7-8)		(7-8)		(7-8)		(6-7)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)	
Units				mg/Kg																																	
Constituent	CAS#	Residential Soil DeMinimis	Industrial Soil DeMinimis																																		
Acenaphthene	83-32-9	4,100	47,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Acenapthylene	208-96-8	4,200	51,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Anthracene	120-12-7	23,000	350,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Benzo(a)anthracene	56-55-3	1.5	320	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Benzo(a)pyrene	50-32-8	0.11	21.0	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Benzo(b)fluoranthene	205-99-2	1.1	210	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U, lp	0.406	U	0.403	U	0.397	U, lp	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Benzo(g,h,i)perylene	191-24-2	1,800	23,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Benzo(k)fluoranthene	207-08-9	11	2,100	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U, lp	0.406	U	0.403	U	0.397	U, lp	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Benzoic Acid	65-85-0	250,000	1,000,000	6.41	U	6.78	U	7.68	U	6.97	U	6.42	U	6.41	U	6.44	U	6.17	U	5.85	U	6.09	U	6.05	U	5.95	U	6.55	U	40.5	U, P1	6.44	U	6.25	U	5.92	U
Benzyl Alcohol	100-51-6	6,300	82,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
4-Bromophenyl phenyl ether	101-55-3	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Butyl benzyl phthalate	85-68-7	290	12,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Carbazole	86-74-8	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
4-Chloro-3-methylphenol	59-50-7	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
4-Chloroaniline	106-47-8	2.7	110	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Bis(2-Chloroethoxy)methane	111-91-1	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Bis(2-chloroethyl)ether	111-44-4	0.24	11	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Bis(2-chloroisopropyl)ether	108-60-1	5.1	230	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2-Chloronaphthalene	91-58-7	5,000	50,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2-Chlorophenol	95-57-8	340	3,900	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Chrysene	218-01-9	110	21,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Dibenzo(a,h)anthracene	53-70-3	0.11	21	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Dibenzofuran	132-64-9	78	120	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
1,2-Dichlorobenzene	95-50-1	380	380	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
1,3-Dichlorobenzene	541-73-1	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
1,4-Dichlorobenzene	106-46-7	2.8	120	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
3,3'-Dichlorobenzidine	91-94-1	1.2	51	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2,4-Dichlorophenol	120-83-2	190	2,500	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Diethyl phthalate	84-66-2	51,000	660,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2,4-Dimethylphenol	105-67-9	1,300	16,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Dimethyl phthalate	131-11-3	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Di-n-butyl phthalate	84-74-2	6,300	82,000	3.42	U	3.61	U	4.1	U	3.72	U	3.42	U	3.42	U	3.44	U	3.29	U	3.12	U	3.25	U	3.23	U	3.17	U	3.49	U	21.6	U, P1	3.43	U	3.33	U	3.16	U
4,6-Dinitro-2-methylphenol	534-52-1	NA	NA	1.07	U	1.13	U	1.28	U	1.16	U	1.07	U	1.07	U	1.07	U	1.03	U	0.976	U	1.02	U	1.01	U	0.993	U	1.09	U	6.76	U, P1	1.07	U	1.04	U	0.987	U
2,4-Dinitrophenol	51-28-5	130	1,600	1.07	U	1.13	U	1.28	U	1.16	U	1.07	U	1.07	U	1.07	U	1.03	U	0.976	U	1.02	U	1.01	U	0.993	U	1.09	U	6.76	U, P1	1.07	U	1.04	U	0.987	U
2,4-Dinitrotoluene	121-14-2	1.7	74	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2,6-Dinitrotoluene	606-20-2	0.36	15	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Di-n-octyl phthalate	117-84-0	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Bis(2-ethylhexyl)phthalate	117-81-7	39	1,600	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Fluoranthene	206-44-0	2,400	30,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Fluorene	86-73-7	2,900	37,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Hexachloro-1,3-butadiene	87-68-3	1.3	17	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Hexachlorobenzene	118-74-1	0.22	10	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Hexachlorocyclopentadiene	77-47-4	1.9	8.0	0.427	U, L2	0.452	U	0.512	U, L2	0.465	U, L2	0.428	U, L2	0.428	U, L2	0.430	U, L2	0.411	U, L2	0.390	U, L2	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Hexachloroethane	67-72-1	2.0	86	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Indeno(1,2,3-cd)pyrene	193-39-5	1.1	210	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Isophorone	78-59-1	570	24,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U

Table 11
Adsorbed-Phase Analytical Results, Subsurface Soil: SVOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID				GVMC-SB-1(9-10)-01-1002		GVMC-SB-2(7-8)-01-1018		GVMC-SB-3(9-10)-01-1005		GVMC-SB-3(9-10)-02-1006		GVMC-SB-4(6-7)-01-1008		GVMC-SB-5(7-8)-01-1010		GVMC-SB-6(7-8)-01-1012		GVMC-SB-7(7-8)-01-1014		GVMC-SB-8(6-7)-01-1016		GVMC-SB-9(7-8)-01-1020		GVMC-SB-10(7-8)-01-1022		GVMC-SB-11(7-8)-01-1024		GVMC-SB-12(7-8)-01-1027		GVMC-SB-12(7-8)-02-1028		GVMC-SB-13(7-8)-01-1032		GVMC-SB-14(7-8)-01-1034		GVMC-SB-15(7-8)-01-1036	
Sample Date				07/22/24		07/31/24		07/23/24		07/23/24		07/23/24		07/23/24		07/23/24		07/24/24		07/24/24		07/31/24		08/01/24		08/01/24		08/01/24		08/01/24		08/02/24		08/02/24		08/06/24	
Sample Depth (ft-bgs)				(9-10)		(7-8)		(9-10)		(9-10)		(6-7)		(7-8)		(7-8)		(7-8)		(6-7)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)		(7-8)	
Units				mg/Kg																																	
Constituent	CAS#	Residential Soil DeMinimis	Industrial Soil DeMinimis																																		
1-Methylnaphthalene	90-12-0	24	390	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2-Methylnaphthalene	91-57-6	310	4,700	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2-Methylphenol (o-Cresol)	95-48-7	3,200	41,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
3&4-Methylphenol (m&p Creso	15831-10-4	3,200	41,000	0.854	U	0.904	U	1.02	U	0.93	U	0.855	U	0.855	U	0.859	U	0.822	U	0.780	U	0.812	U	0.807	U	0.794	U	0.873	U	5.41	U, P1	0.858	U	0.833	U	0.789	U
2-Nitroaniline	88-74-4	630	8,000	1.07	U	1.13	U	1.28	U	1.16	U	1.07	U	1.07	U	1.07	U	1.03	U	0.976	U	1.02	U	1.01	U	0.993	U	1.09	U	6.76	U, P1	1.07	U	1.04	U	0.987	U
3-Nitroaniline	99-09-2	NA	NA	1.07	U	1.13	U	1.28	U	1.16	U	1.07	U	1.07	U	1.07	U	1.03	U	0.976	U	1.02	U	1.01	U	0.993	U	1.09	U	6.76	U, P1	1.07	U	1.04	U	0.987	U
4-Nitroaniline	100-01-6	NA	NA	1.07	U, CH	1.13	U	1.28	U, CH	1.16	U, CH	1.07	U, CH	1.07	U, CH	1.07	U, CH	1.03	U, CH	0.976	U, CH	1.02	U	1.01	U	0.993	U	1.09	U	6.76	U, P1	1.07	U	1.04	U	0.987	U
Nitrobenzene	98-95-3	5.5	240	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2-Nitrophenol	88-75-5	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
4-Nitrophenol	100-02-7	NA	NA	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
N-Nitrosodimethylamine	62-75-9	0.002	0.35	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
N-Nitrosodi-n-propylamine	621-64-7	0.078	3.3	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
N-Nitrosodiphenylamine	86-30-6	110	7,200	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Pentachlorophenol	87-86-5	1.0	40	1.07	U	1.13	U	1.28	U	1.16	U	1.07	U	1.07	U	1.07	U	1.03	U	0.976	U	1.02	U	1.01	U	0.993	U	1.09	U	6.76	U, P1	1.07	U	1.04	U	0.987	U
Phenanthrene	85-01-8	23,000	350,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Phenol	108-95-2	19,000	250,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
Pyrene	129-00-0	2,300	34,000	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
1,2,4-Trichlorobenzene	120-82-1	24	280	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U
2,4,5-Trichlorophenol	95-95-4	6,300	82,000	1.07	U	1.13	U	1.28	U	1.16	U	1.07	U	1.07	U	1.07	U	1.03	U	0.976	U	1.02	U	1.01	U	0.993	U	1.09	U	6.76	U, P1	1.07	U	1.04	U	0.987	U
2,4,6-Trichlorophenol	88-06-2	49	820	0.427	U	0.452	U	0.512	U	0.465	U	0.428	U	0.428	U	0.430	U	0.411	U	0.390	U	0.406	U	0.403	U	0.397	U	0.437	U	2.70	U, P1	0.429	U	0.416	U	0.395	U

mg/Kg - Milligrams per kilogram
ft-bgs - feet below ground surface
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
CH - The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
lp - Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L2 - Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
P1 - Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.
NS - Not Sampled for Constituent
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No WV DeMinimis Standard Available

[1] The de minimis standards utilized to screen the m,p-cresol analytical data are the more conservative (i.e., lower) de minimis standards of the individual m- and p- isomers.

KEMRON
ENVIRONMENTAL SERVICES

Table 12
Adsorbed-Phase Analytical Results, Subsurface Soil: Dioxins and Furans
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Sample ID					GVMC-SB-3 (9-10)-01-1005		2,3,7,8-TCDD Equivalent	GVMC-SB-3 (9-10)-02-1006		2,3,7,8-TCDD Equivalent	GVMC-SB-4 (6-7)-01-1008		2,3,7,8-TCDD Equivalent	GVMC-SB-5 (7-8)-01-1010		2,3,7,8-TCDD Equivalent	GVMC-SB-6 (7-8)-01-1012		2,3,7,8-TCDD Equivalent	GVMC-SB-7 (7-8)-01-1014		2,3,7,8-TCDD Equivalent	GVMC-SB-8 (6-7)-01-1016		2,3,7,8-TCDD Equivalent
Sample Date					07/23/24			07/23/24			07/23/24			07/23/24			07/23/24			07/24/24			07/24/24		
Sample Depth (ft-bgs)					(9-10)			(9-10)			(6-7)			(7-8)			(7-8)			(7-8)			(6-7)		
Units					ng/Kg		ng/L	ng/Kg		ng/L	ng/Kg		ng/L	ng/Kg		ng/L	ng/Kg		ng/L	ng/Kg		ng/L	ng/Kg		ng/L
Constituent	**CAS#**	**2,3,7,8-TCDD Toxicity Equivalency Factors**	**2,3,7,8-TCDD Residential De Minimis Standard**	**2,3,7,8-TCDD Industrial De Minimis Standard**																					
2,3,7,8-TCDD	1746-01-6	1	5.2	240	0.083	U	0.083	0.13	U	0.13	0.100	U	0.100	0.096	U	0.096	0.074	U	0.074	0.094	U	0.094	0.097	U	0.097
1,2,3,7,8-PeCDD	40321-76-4	1	NA	NA	0.065	U	0.065	0.057	U	0.057	0.035	U	0.035	0.033	U	0.033	0.029	U	0.029	0.13	U	0.13	0.099	U	0.099
1,2,3,4,7,8-HxCDD	39277-28-6	0.1	NA	NA	**0.21**	J	**0.021**	**0.19**	JI	**0.019**	**0.15**	JI	**0.015**	**0.12**	JI	**0.012**	**0.14**	JI	**0.014**	0.091	U	0.0091	0.13	U	0.013
1,2,3,6,7,8-HxCDD	57653-85-7	0.1	NA	NA	**0.076**	JI	**0.0076**	**0.13**	JI	**0.013**	0.046	U	0.0046	**0.073**	J	**0.0073**	**0.091**	J	**0.0091**	0.075	U	0.0075	0.11	U	0.011
1,2,3,7,8,9-HxCDD	19408-74-3	0.1	NA	NA	0.044	U	0.0044	**0.39**	J	**0.039**	**0.10**	JI	**0.010**	**0.050**	JI	**0.0050**	**0.097**	J	**0.0097**	0.082	U	0.0082	0.12	U	0.012
1,2,3,4,6,7,8-HpCDD	35822-46-9	0.01	NA	NA	**5.0**		**0.050**	**8.4**		**0.084**	**2.8**	J	**0.028**	**0.92**	J	**0.0092**	**1.6**	J	**0.016**	**1.6**	J	**0.016**	**0.29**	J	**0.0029**
OCDD	3268-87-9	0.003	NA	NA	**790**		**2.37**	**920**		**2.76**	**350**		**1.05**	**45**		**0.135**	**200**		**0.60**	**140**		**0.42**	**8.6**		**0.0258**
2,3,7,8-TCDF	51207-31-9	0.1	NA	NA	**0.096**	J	**0.0096**	0.094	U	0.0094	0.077	U	0.0077	**0.059**	JI	**0.0059**	**0.088**	J	**0.0088**	0.073	U	0.0073	0.081	U	0.0081
1,2,3,7,8-PeCDF	57117-41-6	0.03	NA	NA	0.057	U	0.00171	0.073	U	0.00219	0.063	U	0.00189	0.062	U	0.00186	0.037	U	0.00111	0.16	U	0.0048	0.094	U	0.00282
2,3,4,7,8-PeCDF	57117-31-4	0.3	NA	NA	0.036	U	0.0108	0.046	U	0.0138	0.036	U	0.0108	0.036	U	0.0108	0.023	U	0.0069	0.13	U	0.039	0.084	U	0.0252
1,2,3,4,7,8-HxCDF	70648-26-9	0.1	NA	NA	0.083	U	0.0083	0.055	U	0.0055	0.044	U	0.0044	0.029	U	0.0029	0.040	U	0.0040	0.056	U	0.0056	0.099	U	0.0099
1,2,3,6,7,8-HxCDF	57117-44-9	0.1	NA	NA	0.087	U	0.0087	0.056	U	0.0056	0.048	U	0.0048	0.033	U	0.0033	0.041	U	0.0041	0.059	U	0.0059	0.095	U	0.0095
2,3,4,6,7,8-HxCDF	60851-34-5	0.1	NA	NA	0.080	U	0.0080	0.057	U	0.0057	0.045	U	0.0045	0.033	U	0.0033	0.042	U	0.0042	0.055	U	0.0055	0.087	U	0.0087
1,2,3,7,8,9-HxCDF	72918-21-9	0.1	NA	NA	0.099	U	0.0099	0.069	U	0.0069	**0.073**	JI	**0.0073**	**0.049**	JI	**0.0049**	**0.079**	JI	**0.0079**	0.066	U	0.0066	0.11	U	0.011
1,2,3,4,6,7,8-HpCDF	67562-39-4	0.01	NA	NA	**0.17**	JI	**0.0017**	0.15	U	0.0015	0.098	U	0.00098	0.086	U	0.00086	0.14	U	0.0014	**0.086**	JI	**0.00086**	0.098	U	0.00098
1,2,3,4,7,8,9-HpCDF	55673-89-7	0.01	NA	NA	0.18	U	0.0018	0.20	U	0.0020	0.13	U	0.0013	0.11	U	0.0011	0.17	U	0.0017	0.089	U	0.00089	0.12	U	0.0012
OCDF	39001-02-0	0.003	NA	NA	**0.25**	J	**0.00075**	0.28	U	0.00084	0.19	U	0.00057	0.11	U	0.00033	0.14	U	0.00042	0.30	U	0.00090	0.34	U	0.00102
Total 2,3,7,8-TCDD Equivalent	NA	NA	5.2	240	NA		**2.66226**	NA		**3.15543**	NA		**1.28684**	NA		**0.33275**	NA		**0.79233**	NA		**0.76215**	NA		**0.33912**
TOTAL TCDD	NA	NA	NA	NA	**0.20**	J	NA	**0.15**	J	NA	0.100	U	NA	0.096	U	NA	0.074	U	NA	**0.16**	J	NA	0.097	U	NA
TOTAL PeCDD	NA	NA	NA	NA	0.065	U	NA	0.057	U	NA	0.035	U	NA	0.033	U	NA	0.029	U	NA	0.13	U	NA	0.099	U	NA
TOTAL HxCDD	NA	NA	NA	NA	**0.97**	J	NA	**1.9**	J	NA	**2.2**	J	NA	**0.073**	J	NA	**0.66**	J	NA	**0.43**	J	NA	0.11	U	NA
TOTAL HpCDD	NA	NA	NA	NA	**10**		NA	**21**		NA	**6.3**		NA	**2.0**	J	NA	**3.7**	J	NA	**1.6**	J	NA	**0.29**	J	NA
TOTAL TCDF	NA	NA	NA	NA	**0.20**	J	NA	**0.13**	J	NA	**0.098**	J	NA	**0.076**	J	NA	**0.088**	J	NA	0.073	U	NA	0.081	U	NA
TOTAL PeCDF	NA	NA	NA	NA	**0.14**	J	NA	0.046	U	NA	0.036	U	NA	0.036	U	NA	0.023	U	NA	0.13	U	NA	0.084	U	NA
TOTAL HxCDF	NA	NA	NA	NA	0.080	U	NA	0.055	U	NA	0.044	U	NA	0.029	U	NA	0.040	U	NA	0.055	U	NA	0.087	U	NA
TOTAL HpCDF	NA	NA	NA	NA	0.15	U	NA	0.15	U	NA	0.10	U	NA	0.086	U	NA	0.14	U	NA	0.081	U	NA	0.098	U	NA

ng/Kg - Nanograms per kilogram
ng/L - Nanograms per Liter
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
I - Isoptope ratio out of specification
NS - Not Sampled for Constituent
Positive Detections are Bold
WV DeMinimis Standard Exceedances are Shaded
NA - No WV DeMinimis Standard Available

Table 13
Groundwater Gauging Data
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Well ID	Gauge Date	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	Depth to Water (feet)	LNAPL Thickness (feet)	Depth to Product (feet)
MW-1	09/04/24	87.31	NA	Dry	NA	NA
MW-2	09/04/24	87.57	NA	Dry	NA	NA
MW-3	09/04/24	100.00	83.58	16.42	NA	NA
MW-4	09/04/24	98.45	84.61	13.84	NA	NA
MW-5	09/04/24	102.25	94.47	7.78	NA	NA
MW-6	09/04/24	97.35	84.41	12.94	NA	NA
MW-7	09/04/24	97.24	84.85	12.39	NA	NA
MW-8	09/04/24	97.45	81.06	16.39	NA	NA
MW-9	09/04/24	100.15	90.65	9.50	NA	NA
MW-10	09/04/24	99.42	85.70	13.72	NA	NA
MW-11	09/04/24	98.41	88.09	10.32	NA	NA

NA - Not Applicable

Table 14
Dissolved-Phase Analytical Results: Metals
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Data Point	Constituent	Arsenic		Barium and Compounds		Cadmium and Compounds		Chromium		Lead		Selenium		Silver and Compounds		Mercury (Dissolved)	
	CAS Number	7440382		7440393		7440439		7440473		7439921		7782492		7440224		7439976	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
	Groundwater DeMinimis Standard (µg/L)	**10**		**2,000**		**5.0**		**22,000**		**15**		**50**		**94**		**2.0**	
	EPA Vapor Intrusion Screening Levels [1] (Residential)	**NA**		**NA**		**NA**		**NA**		**NA**		**NA**		**NA**		**2.52**	
	EPA Vapor Intrusion Screening Levels [2] (Industrial)	**NA**		**NA**		**NA**		**NA**		**NA**		**NA**		**NA**		**10.6**	
	Sample Date																
GVMC-MW-3-01-1035	09/05/24	20.0	U	**190**		**2.0**		**7.2**		10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-3-02-1036	09/05/24	20.0	U	**189**		**2.2**		**5.5**		10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-4-01-1034	09/05/24	20.0	U	**138**		2.0	U	**7.6**		10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-5-01-1033	09/05/24	20.0	U	**1,050**		**0.56**	J	**0.44**	J	10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-6-01-1031	09/04/24	20.0	U	**152**		2.0	U	5.0	U	10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-7-01-1037	09/05/24	20.0	U	**246**		2.0	U	**5.6**		10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-8-01-1039	09/06/24	20.0	U	**92.5**		2.0	U	**0.49**	J	10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-9-01-1042	09/06/24	20.0	U	**75.5**		**0.45**	J	5.0	U	10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-10-01-1041	09/06/24	20.0	U	**62.9**		2.0	U	5.0	U	10.0	U	20.0	U	5.0	U	0.20	U
GVMC-MW-11-01-1040	09/06/24	20.0	U	**45.8**		2.0	U	**2.5**	J	10.0	U	20.0	U	5.0	U	0.20	U

µg/L - Micrograms per Liter
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
[1] Hazard Quotient of 1.0, Target Risk of 10^{-6}, and Groundwater Temperature of 13° Celcius for Residential Determination
[2] Hazard Quotient of 1.0, Target Risk of 10^{-5}, and Groundwater Temperature of 13° Celcius for Industrial Determination
Positive Detections are Bold
WV DeMinimis Standard and EPA Vapor Intrusion Screening Level Exceedances are Shaded

Table 15
Dissolved-Phase Analytical Results: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Data Point			Groundwater DeMinimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	GVMC-MW-3-01-1035		GVMC-MW-3-02-1036		GVMC-MW-4-01-1034		GVMC-MW-5-01-1033		GVMC-MW-6-01-1031		GVMC-MW-7-01-1037		GVMC-MW-8-01-1039		GVMC-MW-9-01-1042		GVMC-MW-10-01-1041		GVMC-MW-11-01-1040	
Sample Date						09/05/24		09/05/24		09/05/24		09/05/24		09/04/24		09/05/24		09/06/24		09/06/24		09/06/24		09/06/24	
Constituent	CAS Number	Units																							
Acetone	67641	µg/L	14,000	NA	NA	50.0	U, 3c	50.0	U, 3c	**115**	3c	50.0	U, 3c	**128**	3c	50.0	U, 3c	50.0	U, 3c	50.0	U, 3c	50.0	U, 3c	50.0	U, 3c
Benzene	71432	µg/L	5.0	2.7	118	1.0	U	1.0	U	**55.5**		1.0	U	**13.1**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromochloromethane	74975	µg/L	NA	1,160	4,870	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromodichloromethane	75274	µg/L	80	1.55	67.6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Bromoform (tribromomethane)	75252	µg/L	80	243	10,600	4.0	U	4.0	U	4.00	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	**1.6**	J
Bromomethane	74839	µg/L	7.5	24.8	104	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL
2-Butanone (MEK)	78933	µg/L	5,600	3,890,000	16,400,000	**1.5**	J	10.0	U	**33.5**		10.0	U	**31.1**		**2.9**	J	10.0	U	10.0	U	10.0	U	10.0	U
Carbon disulfide	75150	µg/L	810	1,910	8,010	1.0	U, IL	1.0	U, IL	**1.5**	IL	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL, ML	1.0	U, IL	1.0	U, IL	1.0	U, IL
Carbon tetrachloride	56235	µg/L	5.0	0.693	30.3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chlorobenzene	108907	µg/L	100	0.0786	3300	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Chloroethane	75003	µg/L	21,000	13,400	56,200	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U, R1	4.0	U	4.0	U	4.0	U
Chloroform	67663	µg/L	80	1.33	58.1	**10.4**		**10.7**		1.0	U	**16.2**		**4.8**		1.0	U	1.0	U	1.0	U	**1.3**		**1.3**	
Chloromethane	74873	µg/L	190	349	1,460	10	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL	10	U, CL	10.0	U, CL	10.0	U, CL	10.0	U, CL
Dibromochloromethane	124481	µg/L	80	NA	NA	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichlorobenzene	95501	µg/L	600	5,710	24,000	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,3-Dichlorobenzene	541731	µg/L	NA	NA	NA	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,4-Dichlorobenzene	106467	µg/L	75	5.57	243	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1-Dichloroethane	75343	µg/L	2.8	12.4	541	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL	1.0	U, IL
1,2-Dichloroethane	107062	µg/L	5.0	3.92	171	1.0	U	1.0	U	**1.0**		1.0	U	1.0	U	**1.4**		1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloroethene (Total)	540590	µg/L	5.0	3.92	171	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	2.00	U
1-1-Dichloroethene	75354	µg/L	7.0	297	1,250	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,2-Dichloroethene	156592	µg/L	70	416	1,750	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156605	µg/L	100	175	736	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2-Dichloropropane	78875	µg/L	5.0	116	268	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
cis-1,3-Dichloropropene	10061015	µg/L	NA	NA	NA	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,3-Dichloropropene	10061026	µg/L	NA	NA	NA	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Ethylbenzene	100414	µg/L	700	6.85	299	**0.46**	J	1.0	U	**424**		1.0	U	**107**		**2.2**		1.0	U	1.0	U	1.0	U	1.0	U
2-Hexanone	591786	µg/L	NA	16,500	69,500	10.0	U	10.0	U	**18.9**		10.0	U	**11.3**		10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Isopropylbenzene (Cumene)	98828	µg/L	450	2,080	8,730	1.0	U	1.0	U	**177**		1.0	U	**133**		**6.4**		1.0	U	1.0	U	1.0	U	1.0	U
Methylene chloride	75092	µg/L	5.0	1,200	31,200	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
4-Methyl-2-pentanone (MIBK)	108101	µg/L	1,200	1,060,000	4,470,000	10.0	U	10.0	U	**17.5**		10.0	U	**7.6**	J	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Methyl-tert-butyl ether	1634044	µg/L	14	722	31,500	1.0	U	1.0	U	**0.59**	J	1.0	U	**1.9**		**1.2**		1.0	U	1.0	U	1.0	U	1.0	U
Naphthalene	91203	µg/L	0.12	10.9	477	4.0	U	4.0	U	**96.9**		4.0	U	**72.2**		4.0	U	4.0	U	4.0	U	4.0	U	4.0	U
Styrene	100425	µg/L	100	19,400	81,700	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2,2-Tetrachloroethane	79345	µg/L	NA	6.59	288	1.0	U	1.0	U	1.0	U	1.0	U	**3.3**		**2.2**		1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene (PCE)	127184	µg/L	5.0	28.1	456	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Toluene	108883	µg/L	1,000	35,200	148,000	1.0	U	1.0	U	**56.3**		1.0	U	**2.9**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,2,4-Trichlorobenzene	120821	µg/L	70	87.8	369	4.0	U	4.0	U	4.0	U	4.0	U	4	U	4.0	U	4.0	U	4.0	U	4.0	U	4.00	U
1,1,1-Trichloroethane	71556	µg/L	200	12,400	52,100	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,2-Trichloroethane	79005	µg/L	5.0	9.83	49.1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene (TCE)	79016	µg/L	5.0	2.06	37.7	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

Table 15
Dissolved-Phase Analytical Results: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Data Point			Groundwater DeMinimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	GVMC-MW-3-01-1035		GVMC-MW-3-02-1036		GVMC-MW-4-01-1034		GVMC-MW-5-01-1033		GVMC-MW-6-01-1031		GVMC-MW-7-01-1037		GVMC-MW-8-01-1039		GVMC-MW-9-01-1042		GVMC-MW-10-01-1041		GVMC-MW-11-01-1040	
Sample Date						09/05/24		09/05/24		09/05/24		09/05/24		09/04/24		09/05/24		09/06/24		09/06/24		09/06/24		09/06/24	
Constituent	CAS Number	Units																							
1,2,4-Trimethylbenzene	95636	µg/L	56	544	2,290	**2.1**		1.0	U	**938**		1.0	U	**445**		**2.4**		1.0	U	1.0	U	1.0	U	**2.2**	
1,3,5-Trimethylbenzene	108678	µg/L	60	382	1,600	**0.71**	J	1.0	U	**335**		1.0	U	**148**		**3.2**		1.0	U	1.0	U	1.0	U	**0.51**	J
Vinyl chloride (lifetime)	75014	µg/L	2.0	0.197	32.8	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Xylenes	1330207	µg/L	10,000	759	3,190	3.0	U	3.0	U	**1,080**		3.0	U	**414**		3.0	U	3.0	U	3.0	U	3.0	U	3.0	U
m,p-Xylene	179601231	µg/L	NA	NA	NA	**1.1**	J	2.0	U	**889**		2.0	U	**239**		2.0	U	2.0	U	2.0	U	2.0	U	**0.95**	J
o-Xylene	95476	µg/L	NA	985	4,140	1.0	U	1.0	U	**195**		1.0	U	**175**		1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

µg/L - Micrograms per Liter
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
3c - The analyte did not meet recommended minimum RF.
CL - The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
IL - This analyte exceeded secondary source verification criteria low for the intial calibration. The reported results should be considered an estimated value
[1] Hazard Quotient of 1.0, Target Risk of 10^{-6}, and Groundwater Temperature of 13° Celcius for Residential Determination
[2] Hazard Quotient of 1.0, Target Risk of 10^{-5}, and Groundwater Temperature of 13° Celcius for Industrial Determination
Positive Detections are Bold
WV DeMinimis Standard and EPA Vapor Intrustion Screening Level Exceedances are Shaded

Table 16
Dissolved-Phase Analytical Results: PAHs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Data Point			Groundwater DeMinimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	GVMC-MW-3-01-1052		GVMC-MW-3-01-1035		GVMC-MW-3-02-1036		GVMC-MW-4-01-1034		GVMC-MW-5-01-1033		GVMC-MW-6-01-1031		GVMC-MW-7-01-1037		GVMC-MW-8-01-1039		GVMC-MW-9-01-1042		GVMC-MW-10-01-1041		GVMC-MW-11-01-1040	
Sample Date						06/03/25		09/05/24		09/05/24		09/05/24		09/05/24		09/04/24		09/05/24		09/06/24		09/06/24		09/06/24		09/06/24	
Constituent	**CAS Number**	**Units**																									
Acenaphthene	83329	µg/L	**240**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	**0.19**		0.098	U	**0.19**		0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Acenaphthylene	208968	µg/L	**240**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	**0.11**		0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Anthracene	120127	µg/L	**1,800**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Benzo(a)anthracene	56553	µg/L	**0.03**	**176**	**NA**	0.099	U, L1	0.11	U, L1	0.11	U, L1	0.11	U, L1	0.098	U, L1	0.10	U, L1	0.11	U, L1	0.11	U, L1	0.11	U, L1	0.11	U, L1	0.11	U, L1
Benzo(a)pyrene	50328	µg/L	**0.2**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Benzo(b)fluoranthene	205992	µg/L	**0.25**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Benzo(g,h,i)perylene	191242	µg/L	**600**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Benzo(k)fluoranthene	207089	µg/L	**2.5**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Chrysene	218019	µg/L	**25**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Dibenz(ah)anthracene	53703	µg/L	**0.025**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Fluoranthene	206440	µg/L	**800**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Fluorene	86737	µg/L	**150**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	**0.20**		0.098	U	**0.21**		0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Indeno(1,2,3-cy)pyrene	193395	µg/L	**0.25**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Naphthalene	91203	µg/L	**0.12**	**10.9**	**477**	0.20	U	0.23	U	0.22	U	**20.1**		0.20	U	**59.5**		0.21	U	0.22	U	0.22	U	0.22	U	0.22	U
Phenanthrene	85018	µg/L	**1,700**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	**0.20**		0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Pyrene	129000	µg/L	**79**	**NA**	**NA**	0.099	U	0.11	U	0.11	U	0.11	U	0.098	U	0.10	U	0.11	U	0.11	U	0.11	U	0.11	U	0.11	U

µg/L - Micrograms per Liter
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
[1] Hazard Quotient of 1.0, Target Risk of 10^{-6}, and Groundwater Temperature of 13° Celcius for Residential Determination
[2] Hazard Quotient of 1.0, Target Risk of 10^{-5}, and Groundwater Temperature of 13° Celcius for Industrial Determination
Positive Detections are Bold
WV DeMinimis Standard and EPA Vapor Intrustion Screening Level Exceedances are Shaded

Table 17
Dissolved-Phase Analytical Results: SVOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Data Point			Groundwater DeMinimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	GVMC-MW-3-01-1035		GVMC-MW-3-02-1036		GVMC-MW-4-01-1034		GVMC-MW-5-01-1033		GVMC-MW-6-01-1031		GVMC-MW-7-01-1037		GVMC-MW-8-01-1039		GVMC-MW-9-01-1042		GVMC-MW-10-01-1041		GVMC-MW-11-01-1040	
Sample Date						09/05/24		09/05/24		09/05/24		09/05/24		09/04/24		09/05/24		09/06/24		09/06/24		09/06/24		09/06/24	
Constituent	CAS Number	Units																							
Acenaphthene	83329	µg/L	240	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Acenaphthylene	208968	µg/L	240	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Anthracene	120127	µg/L	1,800	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzo(a)anthracene	56553	µg/L	0.03	176	NA	1.1	U	1.1	U	1.0	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzo(a)pyrene	50328	µg/L	0.2	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzo(b)fluoranthene	205992	µg/L	0.25	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzo(g,h,i)perylene	191242	µg/L	600	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzo(k)fluoranthene	207089	µg/L	2.5	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Benzoic acid	65850	µg/L	75,000	NA	NA	17.2	U	16.3	U	**10.6**	J	14.7	U	15.3	U	16.0	U	16.3	U	16.3	U	16.1	U	16.9	U
Benzyl alcohol	100516	µg/L	2,000	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	**15.1**		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
4-Bromophenyl phenyl ether	101553	µg/L	NA	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Butyl benzyl phthalate	85687	µg/L	16	NA	NA	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
Carbazole	86748	µg/L	NA	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
4-Chloro-3-methylphenol	59507	µg/L	NA	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	**1.5**		1.1	U	1.1	U	1.1	U	1.1	U
4-Chloroaniline	106478	µg/L	0.37	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Bis(2-Chloroethoxy)Methane	111911	µg/L	NA	NA	NA	1.1	U	1.1	U	**4.4**		0.98	U	**1.6**		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Bis(2-chloroethyl)ether	111444	µg/L	0.014	30.5	1,330	1.1	U	1.1	U	1.1	U	0.98	U	**11.7**		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Bis(2-chloroisopropyl)ether	108601	µg/L	0.36	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2-Chloronaphthalene	91587	µg/L	330	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	**1.1**	J
2-Chlorophenol	95578	µg/L	27	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
4-Chlorophenyl phenyl ether	7005723	µg/L	NA	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Chrysene	218019	µg/L	25	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Dibenz(ah)anthracene	53703	µg/L	0.025	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Dibenzofuran	132649	µg/L	7.9	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,2-Dichlorobenzene	95501	µg/L	600	5,710	29,200	1	U	1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1	U
1,3-Dichlorobenzene	541731	µg/L	NA	NA	NA	1	U	1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1	U
1,4-Dichlorobenzene	106467	µg/L	75	5.57	372	1	U	1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1	U
3,3-Dichlorobenzidine	91941	µg/L	0.13	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2,4-Dichlorophenol	120832	µg/L	46	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Diethyl phthalate	84662	µg/L	15,000	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2,4-Dimethylphenol	105679	µg/L	360	NA	NA	1.1	U	1.1	U	**13.1**		0.98	U	**1.2**		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Dimethyl phthalate	131113	µg/L	NA	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Di-n-butyl-phtlalate	84742	µg/L	900	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
4-6,Dinitro-2-methylphenol	534521	µg/L	NA	NA	NA	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
2,4-Dinitrophenol	51285	µg/L	39	NA	NA	2.9	U, CH	2.7	U, CH	2.8	U, CH	2.5	U, CH	2.6	U, CH	2.7	U, CH	2.7	U, CH	2.7	U, CH	2.7	U, CH	2.8	U, CH
2,4-Dinitrotoluene	121142	µg/L	0.24	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2,6-Dinitrotoluene	606202	µg/L	0.049	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
di-n-Octyl phthalate	117840	µg/L	NA	NA	NA	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
Bis(2-ethylhexyl)phthalate (DEHP)	117817	µg/L	6.0	NA	NA	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
Fluoranthene	206440	µg/L	800	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Fluorene	86737	µg/L	150	NA	NA	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U

Table 17
Dissolved-Phase Analytical Results: SVOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Data Point			Groundwater DeMinimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	GVMC-MW-3-01-1035		GVMC-MW-3-02-1036		GVMC-MW-4-01-1034		GVMC-MW-5-01-1033		GVMC-MW-6-01-1031		GVMC-MW-7-01-1037		GVMC-MW-8-01-1039		GVMC-MW-9-01-1042		GVMC-MW-10-01-1041		GVMC-MW-11-01-1040	
Sample Date						09/05/24		09/05/24		09/05/24		09/05/24		09/04/24		09/05/24		09/06/24		09/06/24		09/06/24		09/06/24	
Constituent	CAS Number	Units																							
Hexachloro-1,3-butadiene	87683	µg/L	**0.14**	**0.716**	**31.3**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Hexachlorobenzene	118741	µg/L	**1.0**	**0.275**	**12.0**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Hexachlorocyclopentadiene	77474	µg/L	**50**	**9.58**	**40.2**	1.1	U, CH	1.1	U, CH	1.1	U, CH	0.98	U, CH	1.0	U, CH	1.1	U, CH	1.1	U, CH	1.1	U, CH	1.1	U, CH	1.1	U, CH
Hexachloroethane	67721	µg/L	**0.33**	**4.26**	**186**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Indeno(1,2,3-cy)pyrene	193395	µg/L	**0.25**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Isophorone	78591	µg/L	**78**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1-Methylnaphthalene	90120	µg/L	**1.1**	**384**	**1,610**	1.1	U	1.1	U	**12.5**		0.98	U	**30.5**		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2-Methylnaphthalene	91576	µg/L	**36**	**NA**	**NA**	1.1	U	1.1	U	**7.8**		0.98	U	**49.0**		1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2-Methylphenol (o-Cresol)	95487	µg/L	**930**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
3&4-Methylphenol (m&p Cresol)	15831104	µg/L	**930**	**NA**	**NA**	2.3	U	2.2	U	**1.3**	J	2.0	U	2.0	U	2.1	U	2.2	U	2.2	U	2.2	U	2.2	U
Naphthalene	91203	µg/L	**0.12**	**10.9**	**477**	2.9	U	2.7	U	**30.6**	1c, 2c, E, H2	2.5	U	**51.9**		2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
2-Nitroaniline	88744	µg/L	**190**	**NA**	**NA**	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
3-Nitroaniline	99092	µg/L	**NA**	**NA**	**NA**	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
4-Nitroaniline	100016	µg/L	**NA**	**NA**	**NA**	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
Nitrobenzene	98953	µg/L	**0.14**	**177**	**7,710**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2-Nitrophenol	88755	µg/L	**NA**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
4-Nitrophenol	100027	µg/L	**NA**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
N-Nitrosodimethylamine	62759	µg/L	**0.00011**	**1.98**	**240**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
N-Nitrosodi-n-propylamine	621647	µg/L	**0.011**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
N-Nitrosodiphenylamine	86306	µg/L	**12**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Pentachlorophenol	87865	µg/L	**1**	**NA**	**NA**	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
Phenanthrene	85018	µg/L	**1,700**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Phenol	108952	µg/L	**5,800**	**NA**	**NA**	1.1	U	1.1	U	**0.57**	J	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
Pyrene	129000	µg/L	**79**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
1,2,4-Trichlorobenzene	120821	µg/L	**70**	**87.8**	**369**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U
2,4,5-Trichlorophenol	95954	µg/L	**1,200**	**NA**	**NA**	2.9	U	2.7	U	2.8	U	2.5	U	2.6	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U
2,4,6-Trichlorophenol	88062	µg/L	**4.1**	**NA**	**NA**	1.1	U	1.1	U	1.1	U	0.98	U	1.0	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U

µg/L - Micrograms per Liter
U - Analyte Not Detected Above Laboratory Reporting Limit
J - Analyte Detected Below Laboratory Quantitation Limit
1c - A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c - Sample was processed by reduced volume extraction method. Entire bottle not used.
CH - The continuing calibration for this compound is outside of Pace Analytical accesptance limits. The results may be biased high
E - Analyte concentration exceeded the calibration range. The reported result is estimated.
H2 - Extraction or preparation conducted outside EPA method holding time
[1] Hazard Quotient of 1.0, Target Risk of 10^{-6}, and Groundwater Temperature of 13° Celcius for Residential Determination
[2] Hazard Quotient of 1.0, Target Risk of 10^{-5}, and Groundwater Temperature of 13° Celcius for Industrial Determination
Positive Detections are Bold
WV DeMinimis Standard and EPA Vapor Intrustion Screening Level Exceedances are Shaded

Table 18
Soil Gas and Sub-Slab Vapor-Phase Analytical Results: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Monitoring Point			VMP-1		VMP-2		VMP-3		VMP-3 (Dup)		Residential Target Sub-Slab and Near Source Soil Gas Concentration [1]	Industrial Target Sub-Slab and Near Source Soil Gas Concentration [2]
Sample Date			10/09/24		10/09/24		10/09/24		10/09/24			
Constituent	CAS#	Units										
VOCs (TO-15)												
Acetone	67-64-1	µg/m^3	**136**		**36.4**		**139**		**118**		NE	NE
Allyl chloride	107-05-1	µg/m^3	0.626	U	0.626	U	0.626	U	0.626	U	1.56E+01	1.46E+02
Benzene	71-43-2	µg/m^3	**0.492**	J	**0.441**	J	**0.741**		**0.680**		1.20E+01	5.24E+02
Benzyl chloride	100-44-7	µg/m^3	1.04	U	1.04	U	1.04	U	1.04	U	1.91E+00	8.34E+01
Bromodichloromethane	75-27-4	µg/m^3	1.34	U	1.34	U	1.34	U	1.34	U	2.53E+00	1.10E+02
Bromoform	75-25-2	µg/m^3	6.21	U	6.21	U	6.21	U	6.21	U	8.51E+01	3.72E+03
Bromomethane	74-83-9	µg/m^3	0.776	U	0.776	U	0.776	U	0.776	U	1.74E+02	7.30E+02
1,3-Butadiene	106-99-0	µg/m^3	4.43	U	4.43	U	4.43	U	4.43	U	3.12E+00	1.36E+02
Carbon disulfide	75-15-0	µg/m^3	**7.28**		**2.05**		**1.48**		**1.29**		2.43E+04	1.02E+05
Carbon tetrachloride	56-23-5	µg/m^3	1.26	U	1.26	U	1.26	U	**0.472**	J	1.56E+01	6.81E+02
Chlorobenzene	108-90-7	µg/m^3	0.924	U	0.924	U	0.924	U	0.924	U	1.74E+03	7.30E+03
Chloroethane	75-00-3	µg/m^3	0.528	U	0.528	U	0.528	U	0.528	U	1.39E+05	5.84E+05
Chloroform	67-66-3	µg/m^3	0.973	U	0.973	U	0.973	U	0.973	U	4.07E+00	1.78E+02
Chloromethane	74-87-3	µg/m^3	**2.19**		**0.692**		**1.43**		**1.25**		3.13E+03	1.31E+04
2-Chlorotoluene	95-49-8	µg/m^3	1.03	U	1.03	U	1.03	U	1.03	U	NE	NE
Cyclohexane	110-82-7	µg/m^3	**1.04**		0.689	U	0.689	U	0.689	U	2.09E+05	8.76E+05
Dibromochloromethane	124-48-1	µg/m^3	1.70	U	1.70	U	1.70	U	1.70	U	NE	NE
1,2-Dibromoethane (EDB)	106-93-4	µg/m^3	1.54	U	1.54	U	1.54	U	1.54	U	1.56E-01	6.81E+00
1,2-Dichlorobenzene	95-50-1	µg/m^3	1.20	U	1.20	U	1.20	U	1.20	U	6.95E+03	2.92E+04
1,3-Dichorobenzene	541-73-1	µg/m^3	1.20	U	1.20	U	1.20	U	1.20	U	NE	NE
1,4-Diclorobenzene	106-46-7	µg/m^3	**0.390**	J	1.20	U	**0.752**	J	**0.555**	J	8.51E+00	3.72E+02
1,1-Dichloroethane	75-34-3	µg/m^3	0.802	U	0.802	U	0.802	U	0.802	U	5.85E+01	2.56E+03
1,2-Dichloroethane	107-06-2	µg/m^3	0.810	U	0.810	U	0.810	U	0.810	U	3.60E+00	1.57E+02
1,1-Dichloroethene	75-35-4	µg/m^3	0.793	U	0.793	U	0.793	U	0.793	U	6.95E+03	2.92E+04
cis-1,2-Dichloroethene	156-59-2	µg/m^3	0.793	U	0.793	U	0.793	U	0.793	U	1.39E+03	5.84E+03

Table 18
Soil Gas and Sub-Slab Vapor-Phase Analytical Results: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Monitoring Point			VMP-1		VMP-2		VMP-3		VMP-3 (Dup)		Residential Target Sub-Slab and Near Source Soil Gas Concentration [1]	Industrial Target Sub-Slab and Near Source Soil Gas Concentration [2]
Sample Date			10/09/24		10/09/24		10/09/24		10/09/24			
Constituent	CAS#	Units										
VOCs (TO-15)												
trans-1,2-Dichloroethene	156-60-5	µg/m^3	0.793	U	0.793	U	0.793	U	0.793	U	1.39E+03	5.84E+03
1,2-Dichloropropane	78-87-5	µg/m^3	0.924	U	0.924	U	0.924	U	0.924	U	2.53E+01	5.84E+02
cis-1,3-Dichloropropene	10061-01-5	µg/m^3	0.908	U	0.908	U	0.908	U	0.908	U	2.34E+01	1.02E+03
trans-1,3-Dichloropropene	10061-02-6	µg/m^3	0.908	U	0.908	U	0.908	U	0.908	U	2.34E+01	1.02E+03
1,4-Dioxane	123-91-1	µg/m3	2.27	U	2.27	U	2.27	U	2.27	U	1.87E+01	8.18E+02
Ethanol	64-17-5	µg/m^3	**141**		**86.5**		**104**		**88.1**		NE	NE
Ethylbenzene	100-41-4	µg/m^3	**0.941**		**0.607**	J	**1.06**		**1.01**		3.74E+01	1.64E+03
4-Ethyltoluene	622-96-8	µg/m^3	**1.37**		**1.33**		**2.42**		**2.84**		NE	NE
Trichlorofluoromethane	75-69-4	µg/m^3	**1.30**		**1.26**		**1.29**		**1.24**		NE	NE
Dichlorodifluoromethane	75-71-8	µg/m^3	**1.86**		**1.85**		**2.11**		**2.06**		3.48E+03	1.46E+04
1,1,2-Trichlorotrifluoroethane	76-13-1	µg/m3	1.53	U	**0.617**	J	1.53	U	1.53	U	1.74E+05	7.30E+05
1,2-Dichlorotetrafluoroethane	76-14-2	µg/m^3	1.40	U	1.40	U	1.40	U	1.40	U	NE	NE
n-Heptane	142-82-5	µg/m^3	0.818	U	0.818	U	0.818	U	0.818	U	1.39E+04	5.84E+04
Hexachloro-1,3-butadiene	87-68-3	µg/m^3	6.73	U	6.73	U	6.73	U	6.73	U	4.25E+00	1.86E+02
n-Hexane	110-54-3	µg/m^3	2.22	U	2.22	U	2.22	U	2.22	U	2.43E+04	1.02E+05
Isopropylbenzene	98-82-8	µg/m^3	0.983	U	0.983	U	0.983	U	0.983	U	1.39E+04	5.84E+04
Methylene Chloride	75-09-2	µg/m^3	**0.528**	J	**0.823**		**0.618**	J	**0.701**		3.38E+03	8.76E+04
Methyl Butyl Ketone	591-78-6	µg/m^3	5.11	U	5.11	U	5.11	U	5.11	U	1.04E+03	4.38E+03
2-Butanone (MEK)	78-93-3	µg/m^3	**73.4**		**27.2**		**55.7**		**46.3**		1.74E+05	7.30E+05
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/m^3	**2.33**	J	**0.995**	J	**9.42**		**7.82**		1.04E+05	4.38E+05
Methyl methacrylate	80-62-6	µg/m^3	0.819	U	0.819	U	0.819	U	0.819	U	2.43E+04	1.02E+05
Methyl-tert-butyl-ether	1634-04-4	µg/m^3	0.721	U	0.721	U	0.721	U	0.721	U	3.60E+02	1.57E+04
Naphthalene	91-20-3	µg/m^3	3.30	U	3.30	U	3.30	U	3.30	U	2.75E+00	1.20E+02
2-Propanol	67-63-0	µg/m^3	**10.3**		**94.6**		**14.7**		**12.4**		6.95E+03	2.92E+04
Propylene	115-07-1	µg/m^3	**2.27**	B	**2.48**	B	**2.43**	B	**2.26**	B	1.04E+05	4.38E+05
Styrene	100-42-5	µg/m^3	1.70	U	**0.608**	J	1.70	U	1.70	U	3.48E+04	1.46E+05
1,1,2,2-Tetrachloroethane	79-34-5	µg/m^3	1.37	U	1.37	U	1.37	U	1.37	U	1.61E+00	7.05E+01
Tetrachloroethene	127-18-4	µg/m^3	1.36	U	1.36	U	1.36	U	1.36	U	3.60E+02	5.84E+03

Table 18
Soil Gas and Sub-Slab Vapor-Phase Analytical Results: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Monitoring Point			VMP-1		VMP-2		VMP-3		VMP-3 (Dup)		Residential Target Sub-Slab and Near Source Soil Gas Concentration [1]	Industrial Target Sub-Slab and Near Source Soil Gas Concentration [2]
Sample Date			10/09/24		10/09/24		10/09/24		10/09/24			
Constituent	CAS#	Units										
VOCs (TO-15)												
Tetrahydrofuran	109-99-9	µg/m^3	**90.8**		**47.5**		**75.5**		**62.8**		6.95E+04	2.92E+05
Toluene	108-88-3	µg/m^3	**36.5**		**13.2**		**21.6**		**18.5**		1.74E+05	7.30E+05
1,2,4-Trichlorobenzene	120-82-1	µg/m^3	4.66	U	4.66	U	4.66	U	4.66	U	6.95E+01	2.92E+02
1,1,1-Trichloroethane	71-55-6	µg/m^3	1.09	U	1.09	U	1.09	U	1.09	U	1.74E+05	7.30E+05
1,1,2-Trichloroethane	79-00-5	µg/m^3	1.09	U	1.09	U	1.09	U	1.09	U	5.85E+00	2.92E+01
Trichloroethene	79-01-6	µg/m^3	1.07	U	1.07	U	1.07	U	1.07	U	1.59E+01	2.92E+02
1,2,4-Trimethylbenzene	95-63-6	µg/m^3	**1.86**		**1.87**		**3.71**		**3.66**		2.09E+03	8.76E+03
1,3,5-Trimethylbenzene	108-67-8	µg/m^3	**0.515**	J	**0.501**	J	**0.923**	J	**0.967**	J	2.09E+03	8.76E+03
2,2,4-Trimethylpentane	540-84-1	µg/m^3	**13.9**		**4.28**		**5.79**		**5.00**		NE	NE
Vinyl chloride	75-01-4	µg/m^3	0.511	U	0.511	U	0.511	U	0.511	U	5.59E+00	9.29E+02
Vinyl Bromide	593-60-2	µg/m^3	0.875	U	0.875	U	0.875	U	0.875	U	6.24E+00	2.73E+02
Vinyl acetate	108-05-4	µg/m^3	2.22	U	2.22	U	2.22	U	2.22	U	6.95E+03	2.92E+04
Xylenes, Total	1330-20-7	µg/m^3	**5.04**		**3.33**		**5.91**		**6.08**		3.48E+03	1.46E+04
m&p-Xylene	179601-23-1	µg/m^3	**3.43**		**2.27**		**4.08**		**4.29**		3.48E+03	1.46E+04
o-Xylene	95-47-6	µg/m^3	**1.59**		**1.05**		**1.83**		**1.79**		3.48E+03	1.46E+04

µg/m^3 - Micrograms per cubic meter
J - Analyte Detected Below Laboratory Quantitation Limit
B - The Same Analyte is Found in the Associated Blank
Positive Detections are Bold
Vapor Concentration Exceedances are Shaded
NE - No Target Sub-Slab and Exterior Gas Conc. Established
No Inhal. Tox. Info - No Inhalation Toxicity Information available

[1] USEPA Residential Soil Gas VISL is based on a target risk of 1x10^{-6}, a target hazard quotient of 1, and a groundwater temperature of 13°C.
[2] USEPA Industrial Soil Gas VISL is based on a target risk of 1x10^{-5}, a target hazard quotient of 1, and a groundwater temperature of 13°C.

Table 19
Indoor Air Analytical Results: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Monitoring Point			IA		Residential Target Indoor Air Concentration [1]	Industrial Target Indoor Air Concetration [2]
Sample Date			10/09/24			
Constituent	CAS#	Units				
VOCs (TO-15)						
Acetone	67-64-1	µg/m^3	**14.9**		No Inhal. Tox. Info	No Inhal. Tox. Info
Allyl chloride	107-05-1	µg/m^3	0.626	U	4.68E-01	4.38E+00
Benzene	71-43-2	µg/m^3	**0.380**	J	3.60E-01	1.57E+01
Benzyl chloride	100-44-7	µg/m^3	1.04	U	5.73E-02	2.50E+00
Bromodichloromethane	75-27-4	µg/m^3	1.34	U	7.59E-02	3.31E+00
Bromoform	75-25-2	µg/m^3	6.21	U	2.55E+00	1.11E+02
Bromomethane	74-83-9	µg/m^3	0.776	U	5.21E+00	2.19E+01
1,3-Butadiene	106-99-0	µg/m^3	4.43	U	9.36E-02	4.09E+00
Carbon disulfide	75-15-0	µg/m^3	**4.30**		7.30E+02	1.86E+02
Carbon tetrachloride	56-23-5	µg/m^3	1.26	U	5.21E+01	2.04E+01
Chlorobenzene	108-90-7	µg/m^3	0.924	U	1.74E+03	2.19E+01
Chloroethane	75-00-3	µg/m^3	0.528	U	4.17E+03	1.75E+04
Chloroform	67-66-3	µg/m^3	0.973	U	1.22E-01	5.33E+00
Chloromethane	74-87-3	µg/m^3	**1.06**		9.39E+01	3.94E+02
2-Chlorotoluene	95-49-8	µg/m^3	1.03	U	No Inhal. Tox. Info	No Inhal. Tox. Info
Cyclohexane	110-82-7	µg/m^3	0.689	U	6.26E+03	2.63E+04
Dibromochloromethane	124-48-1	µg/m^3	1.70	U	No Inhal. Tox. Info	No Inhal. Tox. Info
1,2-Dibromoethane (EDB)	106-93-4	µg/m^3	1.54	U	4.68E-03	2.04E-01
1,2-Dichlorobenzene	95-50-1	µg/m^3	1.20	U	2.09E+02	8.76E+02
1,3-Dichorobenzene	541-73-1	µg/m^3	1.20	U	No Inhal. Tox. Info	No Inhal. Tox. Info
1,4-Diclorobenzene	106-46-7	µg/m^3	1.20	U	2.55E-01	1.11E+01
1,1-Dichloroethane	75-34-3	µg/m^3	0.802	U	1.75E+00	7.67E+01
1,2-Dichloroethane	107-06-2	µg/m^3	0.810	U	1.08E-01	4.72E+00
1,1-Dichloroethene	75-35-4	µg/m^3	0.793	U	4.13E+00	1.73E+01
cis-1,2-Dichloroethene	156-59-2	µg/m^3	0.793	U	4.17E+01	1.75E+02
trans-1,2-Dichloroethene	156-60-5	µg/m^3	0.793	U	4.17E+01	1.75E+02
1,2-Dichloropropane	78-87-5	µg/m^3	0.924	U	7.59E-01	1.75E+01
cis-1,3-Dichloropropene	10061-01-5	µg/m^3	0.908	U	7.02E-01	3.07E+01
trans-1,3-Dichloropropene	10061-02-6	µg/m^3	0.908	U	7.02E-01	3.07E+01
1,4-Dioxane	123-91-1	µg/m3	2.27	U	5.62E-01	2.45E+01
Ethanol	64-17-5	µg/m^3	**93.1**		No Inhal. Tox. Info	No Inhal. Tox. Info
Ethylbenzene	100-41-4	µg/m^3	**0.370**	J	1.12E+00	4.91E+01
4-Ethyltoluene	622-96-8	µg/m^3	**0.589**	J	No Inhal. Tox. Info	No Inhal. Tox. Info
Trichlorofluoromethane	75-69-4	µg/m^3	**1.29**		No Inhal. Tox. Info	No Inhal. Tox. Info
Dichlorodifluoromethane	75-71-8	µg/m^3	**2.13**		1.04E+02	4.38E+02
1,1,2-Trichlorotrifluoroethane	76-13-1	µg/m3	1.53	U	5.21E+03	2.19E+04
1,2-Dichlorotetrafluoroethane	76-14-2	µg/m^3	1.40	U	No Inhal. Tox. Info	No Inhal. Tox. Info
n-Heptane	142-82-5	µg/m^3	0.818	U	4.17E+02	1.75E+04
Hexachloro-1,3-butadiene	87-68-3	µg/m^3	6.73	U	1.28E-01	5.57E+00
n-Hexane	110-54-3	µg/m^3	2.22	U	7.30E+02	3.07E+03

Table 19
Indoor Air Analytical Results: VOCs
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Monitoring Point			IA		Residential Target Indoor Air Concentration [1]	Industrial Target Indoor Air Concetration [2]
Sample Date			10/09/24			
Constituent	CAS#	Units				
VOCs (TO-15)						
Isopropylbenzene	98-82-8	µg/m^3	0.983	U	4.17E+02	1.75E+03
Methylene Chloride	75-09-2	µg/m^3	**1.14**		1.01E+02	2.63E+03
Methyl Butyl Ketone	591-78-6	µg/m^3	5.11	U	3.13E+01	1.31E+02
2-Butanone (MEK)	78-93-3	µg/m^3	**2.35**	J	5.21E+03	2.19E+04
4-Methyl-2-pentanone (MIBK)	108-10-1	µg/m^3	5.12	U	3.13E+03	1.31E+04
Methyl methacrylate	80-62-6	µg/m^3	0.819	U	7.30E+02	3.07E+03
Methyl-tert-butyl-ether	1634-04-4	µg/m^3	0.721	U	1.08E+01	4.72E+02
Naphthalene	91-20-3	µg/m^3	3.30	U	8.26E-02	3.61E+00
2-Propanol	67-63-0	µg/m^3	**117**		2.09E+02	8.76E+02
Propylene	115-07-1	µg/m^3	**2.65**	B	3.13E+03	1.31E+04
Styrene	100-42-5	µg/m^3	**0.438**	J	1.04E+03	4.38E+03
1,1,2,2-Tetrachloroethane	79-34-5	µg/m^3	1.37	U	4.84E-02	2.11E+00
Tetrachloroethene	127-18-4	µg/m^3	1.36	U	1.08E+01	1.75E+02
Tetrahydrofuran	109-99-9	µg/m^3	0.590	U	2.09E+03	8.76E+03
Toluene	108-88-3	µg/m^3	**2.46**		5.21E+03	2.19E+04
1,2,4-Trichlorobenzene	120-82-1	µg/m^3	4.66	U	2.09E+00	8.76E+00
1,1,1-Trichloroethane	71-55-6	µg/m^3	1.09	U	5.21E+03	2.19E+04
1,1,2-Trichloroethane	79-00-5	µg/m^3	1.09	U	1.75E-01	8.76E-01
Trichloroethene	79-01-6	µg/m^3	1.07	U	4.78E-01	8.76E+00
1,2,4-Trimethylbenzene	95-63-6	µg/m^3	**0.569**	J	6.26E+01	2.63E+02
1,3,5-Trimethylbenzene	108-67-8	µg/m^3	0.982	U	6.26E+01	2.63E+02
2,2,4-Trimethylpentane	540-84-1	µg/m^3	0.934	U	No Inhal. Tox. Info	No Inhal. Tox. Info
Vinyl chloride	75-01-4	µg/m^3	0.511	U	1.68E-01	2.79E+01
Vinyl Bromide	593-60-2	µg/m^3	0.875	U	1.87E-01	8.18E+00
Vinyl acetate	108-05-4	µg/m^3	2.22	U	2.09E+02	8.76E+02
Xylenes, Total	1330-20-7	µg/m^3	**1.38**	J	1.04E+02	4.38E+02
m&p-Xylene	179601-23-1	µg/m^3	**0.954**	J	1.04E+02	4.38E+02
o-Xylene	95-47-6	µg/m^3	**0.420**	J	1.04E+02	4.38E+02

µg/m^3 - Micrograms per cubic meter
J - Analyte Detected Below Laboratory Quantitation Limit
B - The Same Analyte is Found in the Associated Blank
Positive Detections are Bold
Vapor Concentration Exceedances are Shaded
NE - No Target Sub-Slab and Exterior Gas Conc. Established
No Inhal. Tox. Info - No Inhalation Toxicity Information available

[1] Target Indoor Air VISL is based on a target risk of 1x10^{-6}, a target hazard quotient of 1, and a groundwater temperature of 13°C.

[2] Target Indoor Air VISL is based on a target risk of 1x10^{-5}, a target hazard quotient of 1, and a groundwater temperature of 13°C.

Table 20
Determination of Chemicals of Concern: Adsorbed-Phase, Surface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
Metals														
GVMC	**Arsenic**	17/17	3.9 J	15.9	08/01/24	SS-12 (Dup)	5.5	29.5	0.68	30	13.1	9.9	Yes	
	Barium	17/17	23.1	114	07/23/24	SS-3	5.5	29.5	15,000	220,000	565	NA	No	
	Cadmium	7/17	0.17 J	0.38	07/23/24	SS-5	1.1	5.9	37	530.00	0.5	NA	No	
	Chromium	17/17	11.9	50.7	08/02/24	SS-14	5.5	29.5	120,000	1,000,000	57.4	NA	No	
	Lead	17/17	10.6	30.8	08/06/24	SS-15	5.5	29.5	400	800	38	NA	No	
	Selenium	5/17	1.3 J	2.9 J	08/01/24	SS-12 (Dup)	5.5	29.5	390	5,800	0.8	NA	No	
	Silver	0/17	NA	NA	NA	NA	2.8	14.8	390	5,800	1.0	NA	No	
	Mercury	13/17	0.028	0.27	08/01/24	SS-12 (Dup)	0.022	0.026	3.1	3.1	0.09	NA	No	
VOCs														
GVMC	**Acetone**	10/17	0.0482 J	0.276	08/06/24	SS-15	0.0372	0.0675	61,000	110,000	NA	NA	No	
	Benzene	3/17	0.0011 J	0.0021 J	08/01/24	SS-10	0.0037	0.0067	1.2	54	NA	NA	No	
	Bromochloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067	NA	NA	NA	NA	No	
	Bromodichloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067	0.31	14	NA	NA	No	
	Bromoform	0/17	NA	NA	NA	NA	0.0037	0.0067	20	910	NA	NA	No	
	Bromomethane	0/17	NA	NA	NA	NA	0.0037	0.0067	7.3	32	NA	NA	No	
	2-Butanone	9/17	0.0071 J	0.0279	08/06/24	SS-15	0.0074	0.0135	28,000	28,000	NA	NA	No	
	Carbon disulfide	3/17	0.0029 J	0.0038 J	08/01/24	SS-11	0.0037	0.0067	740	740	NA	NA	No	
	Carbon tetrachloride	0/17	NA	NA	NA	NA	0.0037	0.0067	0.7	31	NA	NA	No	
	Chlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	290	760	NA	NA	No	
	Chloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	2,100	2,100	NA	NA	No	
	Chloroform	0/17	NA	NA	NA	NA	0.0037	0.0067	0.34	15	NA	NA	No	
	Chloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067	120	500	NA	NA	No	
	Dibromochloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067	8.3	390	NA	NA	No	
	1,2-Dichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	380	380	NA	NA	No	
	1,3-Dichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	NA	NA	NA	NA	No	
	1,4-Dichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	2.8	120	NA	NA	No	
	1,1-Dichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	3.8	170	NA	NA	No	
	1,2-Dichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	0.5	22	NA	NA	No	
	1,1-Dichloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	240	1,100	NA	NA	No	
	cis-1,2-Dichloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	17	80	NA	NA	No	
	trans-1,2-Dichloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	75	320	NA	NA	No	
	1,2-Dichloropropane	0/17	NA	NA	NA	NA	0.0037	0.0067	2.7	71	NA	NA	No	
	cis-1,3-Dichloropropene	0/17	NA	NA	NA	NA	0.0037	0.0067	1.9	80	NA	NA	No	
	trans-1,3-Dichloropropene	0/17	NA	NA	NA	NA	0.0037	0.0067	1.9	320	NA	NA	No	
	Ethylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	6.2	270	NA	NA	No	
	2-Hexanone	8/17	0.0033 J	0.0392	07/23/24	SS-4	0.0074	0.0135	NA	NA	NA	NA	No	
	Isopropylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	270	270	NA	NA	No	
	Methylene chloride	0/17	NA	NA	NA	NA	0.0037	0.0067	58	3,300	NA	NA	No	

Table 20
Determination of Chemicals of Concern: Adsorbed-Phase, Surface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
						VOCs								
GVMC	4-Methyl-2-pentanone	0/17	NA	NA	NA	NA	0.0074	0.0135	3,400	3,400	NA	NA	No	
	Methyl tert butyl ether	0/17	NA	NA	NA	NA	0.0037	0.0067	50	2,200	NA	NA	No	
	Styrene	0/17	NA	NA	NA	NA	0.0037	0.0067	870	870	NA	NA	No	
	1,1,2,2-Tetrachloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	0.64	28	NA	NA	No	
	Tetrachloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	25	170	NA	NA	No	
	Toluene	2/17	0.0011 J	0.0018 J	08/01/24	SS-10	0.0037	0.0067	820	820	NA	NA	No	
	1,2,4-Trichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	24	280	NA	NA	No	
	1,1,1-Trichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	640	640	NA	NA	No	
	1,1,2-Trichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	1.2	6.8	NA	NA	No	
	Trichloroethylene	0/17	NA	NA	NA	NA	0.0037	0.0067	1.0	20	NA	NA	No	
	1,2,4-Trimethylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	220	220	NA	NA	No	
	1,3,5-Trimethylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	180	180	NA	NA	No	
	Vinyl chloride	0/17	NA	NA	NA	NA	0.0037	0.0067	0.061	18	NA	NA	No	
	o-Xylene	0/17	NA	NA	NA	NA	0.0037	0.0067	260	260	NA	NA	No	
	m,p-Xylene	0/17	NA	NA	NA	NA	0.0074	0.0135	260	260	NA	NA	No	
	Xylenes	0/17	NA	NA	NA	NA	0.0112	0.0202	260	260	NA	NA	No	
						PAHs								
GVMC	Acenaphthene	0/17	NA	NA	NA	NA	0.0075	0.079	4,100	47,000	NA	NA	No	
	Acenaphthylene	0/17	NA	NA	NA	NA	0.0075	0.079	4,200	51,000	NA	NA	No	
	Anthracene	1/17	0.0357 J	0.0357 J	08/01/24	SS-10	0.0075	0.079	23,000	350,000	NA	NA	No	
	Benzo(a)anthracene	7/17	0.0023 J	0.0468	08/01/24	SS-10	0.0075	0.079	1.5	320	NA	NA	No	
	Benzo(a)pyrene	4/17	0.0051 J	0.607	08/01/24	SS-10	0.0075	0.079	0.11	21	NA	0.814	Yes	
	Benzo(b)fluoranthene	6/17	0.0059 J	1.23	08/01/24	SS-10	0.0075	0.079	1.1	210	NA	0.814	No	
	Benzo(g,h,i)perylene	5/17	0.0033 J	0.455	08/01/24	SS-10	0.0075	0.079	1,800	23,000	NA	NA	No	
	Benzo(k)fluoranthene	5/17	0.0058 J	1.15	08/01/24	SS-10	0.0075	0.079	11	2,100	NA	NA	No	
	Chrysene	7/17	0.0030 J	0.672	08/01/24	SS-10	0.0075	0.079	110	21,000	NA	NA	No	
	Dibenzo(a,h)anthracene	1/17	0.108	0.108	08/01/24	SS-10	0.0075	0.079	0.11	21	NA	NA	No	
	Fluoranthene	6/17	0.0056 J	1.22	08/01/24	SS-10	0.0075	0.079	2,400	30,000	NA	NA	No	
	Fluorene	0/17	NA	NA	NA	NA	0.015	0.168	2,900	37,000	NA	NA	No	
	Indeno(1,2,3-cd)pyrene	2/17	0.0039 J	0.363	08/01/24	SS-10	0.0075	0.079	1.1	210	NA	NA	No	
	Naphthalene	0/17	NA	NA	NA	NA	0.0075	0.079	2.4	110	NA	NA	No	
	Phenanthrene	3/17	0.0062 J	0.283	08/01/24	SS-10	0.015	0.168	23,000	350,000	NA	NA	No	
	Pyrene	3/17	0.0092	0.888	08/01/24	SS-10	0.0075	0.079	2,300	34,000	NA	NA	No	

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Determination of Chemicals of Concern: Adsorbed-Phase, Surface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
						SVOCs								
GVMC	Acenaphthene	0/17	NA	NA	NA	NA	0.358	4.18	4,100	47,000	NA	NA	No	
	Acenapthylene	0/17	NA	NA	NA	NA	0.358	4.18	4,200	51,000	NA	NA	No	
	Anthracene	0/17	NA	NA	NA	NA	0.358	4.18	23,000	350,000	NA	NA	No	
	Benzo(a)anthracene	0/17	NA	NA	NA	NA	0.358	4.18	1.5	320	NA	NA	No	
	Benzo(a)pyrene	0/17	NA	NA	NA	NA	0.358	4.18	0.11	21	NA	NA	No	
	Benzo(b)fluoranthene	0/17	NA	NA	NA	NA	0.358	4.18	1.1	210	NA	NA	No	
	Benzo(g,h,i)perylene	0/17	NA	NA	NA	NA	0.358	4.18	1,800	23,000	NA	NA	No	
	Benzo(k)fluoranthene	0/17	NA	NA	NA	NA	0.358	4.18	11	2100	NA	NA	No	
	Benzoic Acid	0/17	NA	NA	NA	NA	5.38	62.7	250,000	1,000,000	NA	NA	No	
	Benzyl Alcohol	0/17	NA	NA	NA	NA	0.358	4.18	6,300	82,000	NA	NA	No	
	4-Bromophenyl phenyl ether	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	Butyl benzyl phthalate	0/17	NA	NA	NA	NA	0.358	4.18	290	12,000	NA	NA	No	
	Carbazole	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	4-Chloro-3-methylphenol	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	4-Chloroaniline	0/17	NA	NA	NA	NA	0.358	4.18	2.7	110	NA	NA	No	
	Bis(2-Chloroethoxy)methane	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	Bis(2-chloroethyl)ether	0/17	NA	NA	NA	NA	0.358	4.18	0.24	11	NA	NA	No	
	Bis(2-chloroisopropyl)ether	0/17	NA	NA	NA	NA	0.358	4.18	5.1	230	NA	NA	No	
	2-Chloronaphthalene	0/17	NA	NA	NA	NA	0.358	4.18	5,000	50,000	NA	NA	No	
	2-Chlorophenol	0/17	NA	NA	NA	NA	0.358	4.18	340	3,900	NA	NA	No	
	4-Chlorophenyl phenyl ether	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	Chrysene	2/17	0.0597 J	0.858 J	08/01/24	SS-10	0.358	4.18	110	21,000	NA	NA	No	
	Dibenzo(a,h)anthracene	0/17	NA	NA	NA	NA	0.358	4.18	0.11	21	NA	NA	No	
	Dibenzofuran	0/17	NA	NA	NA	NA	0.358	4.18	78	120	NA	NA	No	
	1,2-Dichlorobenzene	0/17	NA	NA	NA	NA	0.358	4.18	380	380	NA	NA	No	
	1,3-Dichlorobenzene	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	1,4-Dichlorobenzene	0/17	NA	NA	NA	NA	0.358	4.18	2.8	120	NA	NA	No	
	3,3'-Dichlorobenzidine	0/17	NA	NA	NA	NA	0.358	4.18	1.2	51	NA	NA	No	
	2,4-Dichlorophenol	0/17	NA	NA	NA	NA	0.358	4.18	190	2,500	NA	NA	No	
	Diethyl phthalate	0/17	NA	NA	NA	NA	0.358	4.18	51,000	660,000	NA	NA	No	
	2,4-Dimethylphenol	0/17	NA	NA	NA	NA	0.358	4.18	1,300	16,000	NA	NA	No	
	Dimethyl phthalate	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	Di-n-butyl phthalate	0/17	NA	NA	NA	NA	2.87	33.4	6,300	82,000	NA	NA	No	
	4,6-Dinitro-2-methylphenol	0/17	NA	NA	NA	NA	0.896	10.5	NA	NA	NA	NA	No	
	2,4-Dinitrophenol	0/17	NA	NA	NA	NA	0.896	10.5	130	1,600	NA	NA	No	
	2,4-Dinitrotoluene	0/17	NA	NA	NA	NA	0.358	4.18	1.7	74	NA	NA	No	
	2,6-Dinitrotoluene	0/17	NA	NA	NA	NA	0.358	4.18	0.36	15	NA	NA	No	
	Di-n-octyl phthalate	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	

Table 20
Determination of Chemicals of Concern: Adsorbed-Phase, Surface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
SVOCs														
GVMC	**Bis(2-ethylhexyl)phthalate**	1/17	1.38 J	1.38 J	8/1/2024	SS-10	0.358	4.18	39	1,600	NA	NA	No	
	Fluoranthene	0/17	NA	NA	NA	NA	0.358	4.18	2,400	30,000	NA	NA	No	
	Fluorene	0/17	NA	NA	NA	NA	0.358	4.18	2,900	37,000	NA	NA	No	
	Hexachloro-1,3-butadiene	0/17	NA	NA	NA	NA	0.358	4.18	1.3	17	NA	NA	No	
	Hexachlorobenzene	0/17	NA	NA	NA	NA	0.358	4.18	0.22	10	NA	NA	No	
	Hexachlorocyclopentadiene	0/17	NA	NA	NA	NA	0.358	4.18	1.9	8.0	NA	NA	No	
	Hexachloroethane	0/17	NA	NA	NA	NA	0.358	4.18	2.0	86	NA	NA	No	
	Indeno(1,2,3-cd)pyrene	0/17	NA	NA	NA	NA	0.358	4.18	1.1	210	NA	NA	No	
	Isophorone	0/17	NA	NA	NA	NA	0.358	4.18	570	24,000	NA	NA	No	
	1-Methylnaphthalene	0/17	NA	NA	NA	NA	0.358	4.18	24	390	NA	NA	No	
	2-Methylnaphthalene	0/17	NA	NA	NA	NA	0.358	4.18	310	4,700	NA	NA	No	
	2-Methylphenol (o-Cresol)	0/17	NA	NA	NA	NA	0.358	4.18	3,200	41,000	NA	NA	No	
	3&4-Methylphenol (m&p-Cresol)	0/17	NA	NA	NA	NA	0.717	8.36	3,200	41,000	NA	NA	No	
	2-Nitroaniline	0/17	NA	NA	NA	NA	0.896	10.5	630	8,000	NA	NA	No	
	3-Nitroaniline	0/17	NA	NA	NA	NA	0.896	10.5	NA	NA	NA	NA	No	
	4-Nitroaniline	0/17	NA	NA	NA	NA	0.896	10.5	NA	NA	NA	NA	No	
	Nitrobenzene	0/17	NA	NA	NA	NA	0.358	4.18	5.5	240	NA	NA	No	
	2-Nitrophenol	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	4-Nitrophenol	0/17	NA	NA	NA	NA	0.358	4.18	NA	NA	NA	NA	No	
	N-Nitrosodimethylamine	0/17	NA	NA	NA	NA	0.358	4.18	0.002	0.35	NA	NA	No	
	N-Nitrosodiphenylamine	0/17	NA	NA	NA	NA	0.358	4.18	110	7,200	NA	NA	No	
	N-Nitrosodi-n-propylamine	0/17	NA	NA	NA	NA	0.358	4.18	0.078	3.3	NA	NA	No	
	Pentachlorophenol	0/17	NA	NA	NA	NA	0.896	10.5	1.0	40	NA	NA	No	
	Phenanthrene	0/17	NA	NA	NA	NA	0.358	4.18	23,000	350,000	NA	NA	No	
	Phenol	0/17	NA	NA	NA	NA	0.358	4.18	19,000	250,000	NA	NA	No	
	Pyrene	0/17	NA	NA	NA	NA	0.358	4.18	2,300	34,000	NA	NA	No	
	1,2,4-Trichlorobenzene	0/17	NA	NA	NA	NA	0.358	4.18	24	280	NA	NA	No	
	2,4,5-Trichlorophenol	0/17	NA	NA	NA	NA	0.896	10.5	6,300	82,000	NA	NA	No	
	2,4,6-Trichlorophenol	0/17	NA	NA	NA	NA	0.358	4.18	49	820	NA	NA	No	
Dioxins*														
GVMC	**Total 2,3,7,8-TCDD Equivalent**	7/7	0.3055	17.271	07/23/24	SS-5	0.074	0.12	5.2	240	NA	9.015	Yes	

NA - Data is not available at this time
Highlighted cells indicate contaminants of concern selected for further consideration
*** - Dioxins detection limit and result provided in nanograms per kilogram (ng/Kg)**

Table 21
Determination of Chemicals of Concern: Adsorbed-Phase, Subsurface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
Metals														
GVMC	**Arsenic**	16/17	3.9 J	34 J	07/23/24	SB-3	6.0	7.8	0.68	30	13.1	15.8	Yes	
	Barium	17/17	20.2	170	07/24/24	SB-8	6.0	7.8	15,000	220,000	565	NA	No	
	Cadmium	5/17	0.25 J	2.40	07/23/24	SB-4	1.2	1.6	37	530.00	0.5	NA	No	
	Chromium	17/17	11.8	60.3	08/01/24	SB-12 (Dup)	6.0	7.8	120,000	1,000,000	57.4	NA	No	
	Lead	17/17	8.9	37.5	08/01/24	SB-10	6.0	7.8	400	800	38	NA	No	
	Selenium	8/17	1.2 J	3.3 J	08/01/24	SB-10	6.0	7.8	390	5,800	0.8	NA	No	
	Silver	0/17	NA	NA	NA	NA	3.0	3.9	390	5,800	1.0	NA	No	
	Mercury	14/17	0.023 J	0.22	08/01/24	SB-12 (Dup)	0.024	0.031	3.1	3.1	0.09	NA	No	
VOCs														
GVMC	**Acetone**	9/17	0.0397 J	0.397	07/24/24	SB-8	0.0372	0.0675	61,000	110,000	NA	NA	No	
	Benzene	0/17	NA	NA	NA	NA	0.0037	0.0067	1.2	54	NA	NA	No	
	Bromochloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067		NA	NA	NA	No	
	Bromodichloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067	0.31	14	NA	NA	No	
	Bromoform	0/17	NA	NA	NA	NA	0.0037	0.0067	20	910	NA	NA	No	
	Bromomethane	0/17	NA	NA	NA	NA	0.0037	0.0067	7.3	32	NA	NA	No	
	2-Butanone	6/17	0.0033 J	0.0435	07/24/24	SB-8	0.0074	0.0135	28,000	28,000	NA	NA	No	
	Carbon disulfide	2/17	0.0043 J	0.0276	08/06/24	SB-15	0.0037	0.0067	740	740	NA	NA	No	
	Carbon tetrachloride	0/17	NA	NA	NA	NA	0.0037	0.0067	0.7	31	NA	NA	No	
	Chlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	290	760	NA	NA	No	
	Chloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	2,100	2,100	NA	NA	No	
	Chloroform	1/17	0.0013 J	0.0013 J	07/24/24	SB-7	0.0037	0.0067	0.34	15	NA	NA	No	
	Chloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067	120	500	NA	NA	No	
	Dibromochloromethane	0/17	NA	NA	NA	NA	0.0037	0.0067	8.3	390	NA	NA	No	
	1,2-Dichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	380	380	NA	NA	No	
	1,3-Dichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	NA	NA	NA	NA	No	
	1,4-Dichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	2.8	120	NA	NA	No	
	1,1-Dichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	3.8	170	NA	NA	No	
	1,2-Dichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	0.5	22	NA	NA	No	
	1,1-Dichloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	240	1,100	NA	NA	No	
	cis-1,2-Dichloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	17	80	NA	NA	No	
	trans-1,2-Dichloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	75	320	NA	NA	No	
	1,2-Dichloropropane	0/17	NA	NA	NA	NA	0.0037	0.0067	2.7	71	NA	NA	No	
	cis-1,3-Dichloropropene	0/17	NA	NA	NA	NA	0.0037	0.0067	1.9	80	NA	NA	No	
	trans-1,3-Dichloropropene	0/17	NA	NA	NA	NA	0.0037	0.0067	1.9	320	NA	NA	No	
	Ethylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	6.2	270	NA	NA	No	
	2-Hexanone	3/17	0.0024 J	0.0108	08/06/24	SB-15	0.0074	0.0135	NA	NA	NA	NA	No	
	Isopropylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	270	270	NA	NA	No	
	Methylene chloride	0/17	NA	NA	NA	NA	0.0037	0.0067	58	3,300	NA	NA	No	

Table 21
Determination of Chemicals of Concern: Adsorbed-Phase, Subsurface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
VOCs														
GVMC	4-Methyl-2-pentanone	0/17	NA	NA	NA	NA	0.0074	0.0135	3,400	3,400	NA	NA	No	
	Methyl tert butyl ether	0/17	NA	NA	NA	NA	0.0037	0.0067	50	2,200	NA	NA	No	
	Styrene	0/17	NA	NA	NA	NA	0.0037	0.0067	870	870	NA	NA	No	
	1,1,2,2-Tetrachloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	0.64	28	NA	NA	No	
	Tetrachloroethene	0/17	NA	NA	NA	NA	0.0037	0.0067	25	170	NA	NA	No	
	Toluene	1/17	0.0219	0.0219	07/24/24	SB-8	0.0037	0.0067	820	820	NA	NA	No	
	1,2,4-Trichlorobenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	24	280	NA	NA	No	
	1,1,1-Trichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	640	640	NA	NA	No	
	1,1,2-Trichloroethane	0/17	NA	NA	NA	NA	0.0037	0.0067	1.2	6.8	NA	NA	No	
	Trichloroethylene	0/17	NA	NA	NA	NA	0.0037	0.0067	1.0	20	NA	NA	No	
	1,2,4-Trimethylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	220	220	NA	NA	No	
	1,3,5-Trimethylbenzene	0/17	NA	NA	NA	NA	0.0037	0.0067	180	180	NA	NA	No	
	Vinyl chloride	0/17	NA	NA	NA	NA	0.0037	0.0067	0.061	18	NA	NA	No	
	o-Xylene	0/17	NA	NA	NA	NA	0.0037	0.0067	260	260	NA	NA	No	
	m,p-Xylene	0/17	NA	NA	NA	NA	0.0074	0.0135	260	260	NA	NA	No	
	Xylenes	0/17	NA	NA	NA	NA	0.0112	0.0202	260	260	NA	NA	No	
PAHs														
GVMC	Acenaphthene	0/17	NA	NA	NA	NA	0.0075	0.079	4,100	47,000	NA	NA	No	
	Acenaphthylene	0/17	NA	NA	NA	NA	0.0075	0.079	4,200	51,000	NA	NA	No	
	Anthracene	2/17	0.0024 J	0.0038 J	08/06/24	SB-15	0.0075	0.079	23,000	350,000	NA	NA	No	
	Benzo(a)anthracene	3/17	0.0053 J	0.0146	08/06/24	SB-15	0.0075	0.079	1.5	320	NA	NA	No	
	Benzo(a)pyrene	2/17	0.0059 J	0.0131	08/06/24	SB-15	0.0075	0.079	0.11	21	NA	NA	No	
	Benzo(b)fluoranthene	3/17	0.0097	0.0296	08/06/24	SB-15	0.0075	0.079	1.1	210	NA	NA	No	
	Benzo(g,h,i)perylene	2/17	0.0024 J	0.0075 J	08/06/24	SB-15	0.0075	0.079	1,800	23,000	NA	NA	No	
	Benzo(k)fluoranthene	5/17	0.0021 J	0.0273	08/06/24	SB-15	0.0075	0.079	11	2,100	NA	NA	No	
	Chrysene	3/17	0.0056 J	0.015	08/06/24	SB-15	0.0075	0.079	110	21,000	NA	NA	No	
	Dibenzo(a,h)anthracene	0/17	NA	NA	NA	NA	0.0075	0.079	0.11	21	NA	NA	No	
	Fluoranthene	3/17	0.0109	0.0301	08/06/24	SB-15	0.0075	0.079	2,400	30,000	NA	NA	No	
	Fluorene	0/17	NA	NA	NA	NA	0.015	0.168	2,900	37,000	NA	NA	No	
	Indeno(1,2,3-cd)pyrene	1/17	0.0061 J	0.0061 J	08/06/24	SB-15	0.0075	0.079	1.1	210	NA	NA	No	
	Naphthalene	0/17	NA	NA	NA	NA	0.0075	0.079	2.4	110	NA	NA	No	
	Phenanthrene	4/17	0.0059 J	0.0197	08/06/24	SB-15	0.015	0.168	23,000	350,000	NA	NA	No	
	Pyrene	3/17	0.0091	0.0268	08/06/24	SB-15	0.0075	0.079	2,300	34,000	NA	NA	No	

Table 21
Determination of Chemicals of Concern: Adsorbed-Phase, Subsurface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
						SVOCs								
GVMC	**Acenaphthene**	0/17	NA	NA	NA	NA	0.390	2.70	4,100	47,000	NA	NA	No	
	Acenapthylene	0/17	NA	NA	NA	NA	0.390	2.70	4,200	51,000	NA	NA	No	
	Anthracene	0/17	NA	NA	NA	NA	0.390	2.70	23,000	350,000	NA	NA	No	
	Benzo(a)anthracene	0/17	NA	NA	NA	NA	0.390	2.70	1.5	320	NA	NA	No	
	Benzo(a)pyrene	0/17	NA	NA	NA	NA	0.390	2.70	0.11	21	NA	NA	No	
	Benzo(b)fluoranthene	0/17	NA	NA	NA	NA	0.390	2.70	1.1	210	NA	NA	No	
	Benzo(g,h,i)perylene	0/17	NA	NA	NA	NA	0.390	2.70	1,800	23,000	NA	NA	No	
	Benzo(k)fluoranthene	0/17	NA	NA	NA	NA	0.390	2.70	11	2100	NA	NA	No	
	Benzoic Acid	0/17	NA	NA	NA	NA	5.95	40.5	250,000	1,000,000	NA	NA	No	
	Benzyl Alcohol	0/17	NA	NA	NA	NA	0.390	2.70	6,300	82,000	NA	NA	No	
	4-Bromophenyl phenyl ether	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	Butyl benzyl phthalate	0/17	NA	NA	NA	NA	0.390	2.70	290	12,000	NA	NA	No	
	Carbazole	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	4-Chloro-3-methylphenol	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	4-Chloroaniline	0/17	NA	NA	NA	NA	0.390	2.70	2.7	110	NA	NA	No	
	Bis(2-Chloroethoxy)methane	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	Bis(2-chloroethyl)ether	0/17	NA	NA	NA	NA	0.390	2.70	0.24	11	NA	NA	No	
	Bis(2-chloroisopropyl)ether	0/17	NA	NA	NA	NA	0.390	2.70	5.1	230	NA	NA	No	
	2-Chloronaphthalene	0/17	NA	NA	NA	NA	0.390	2.70	5,000	50,000	NA	NA	No	
	2-Chlorophenol	0/17	NA	NA	NA	NA	0.390	2.70	340	3,900	NA	NA	No	
	4-Chlorophenyl phenyl ether	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	Chrysene	2/17	0.0597 J	0.858 J	08/01/24	SS-10	0.390	2.70	110	21,000	NA	NA	No	
	Dibenzo(a,h)anthracene	0/17	NA	NA	NA	NA	0.390	2.70	0.11	21	NA	NA	No	
	Dibenzofuran	0/17	NA	NA	NA	NA	0.390	2.70	78	120	NA	NA	No	
	1,2-Dichlorobenzene	0/17	NA	NA	NA	NA	0.390	2.70	380	380	NA	NA	No	
	1,3-Dichlorobenzene	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	1,4-Dichlorobenzene	0/17	NA	NA	NA	NA	0.390	2.70	2.8	120	NA	NA	No	
	3,3'-Dichlorobenzidine	0/17	NA	NA	NA	NA	0.390	2.70	1.2	51	NA	NA	No	
	2,4-Dichlorophenol	0/17	NA	NA	NA	NA	0.390	2.70	190	2,500	NA	NA	No	
	Diethyl phthalate	0/17	NA	NA	NA	NA	0.390	2.70	51,000	660,000	NA	NA	No	
	2,4-Dimethylphenol	0/17	NA	NA	NA	NA	0.390	2.70	1,300	16,000	NA	NA	No	
	Dimethyl phthalate	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	Di-n-butyl phthalate	0/17	NA	NA	NA	NA	3.16	21.6	6,300	82,000	NA	NA	No	
	4,6-Dinitro-2-methylphenol	0/17	NA	NA	NA	NA	0.987	6.76	NA	NA	NA	NA	No	
	2,4-Dinitrophenol	0/17	NA	NA	NA	NA	0.987	6.76	130	1,600	NA	NA	No	
	2,4-Dinitrotoluene	0/17	NA	NA	NA	NA	0.390	2.70	1.7	74	NA	NA	No	
	2,6-Dinitrotoluene	0/17	NA	NA	NA	NA	0.390	2.70	0.36	15	NA	NA	No	

Table 21
Determination of Chemicals of Concern: Adsorbed-Phase, Subsurface Soil
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (mg/Kg)	Maximum Detected Concentration (mg/Kg)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (mg/Kg)	Maximum Detection Limit (mg/Kg)	Residential Soil De Minimis Standard (mg/Kg)	Industrial Soil De Minimis Standard (mg/Kg)	WV Natural Background Values	95% UCL Calculation[1]	Contaminant of Concern	Comment
SVOCs														
GVMC	Di-n-octyl phthalate	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	Bis(2-ethylhexyl)phthalate	1/17	1.38 J	1.38 J	8/1/2024	SS-10	0.390	2.70	39	1,600	NA	NA	No	
	Fluoranthene	0/17	NA	NA	NA	NA	0.390	2.70	2,400	30,000	NA	NA	No	
	Fluorene	0/17	NA	NA	NA	NA	0.390	2.70	2,900	37,000	NA	NA	No	
	Hexachloro-1,3-butadiene	0/17	NA	NA	NA	NA	0.390	2.70	1.3	17	NA	NA	No	
	Hexachlorobenzene	0/17	NA	NA	NA	NA	0.390	2.70	0.22	10	NA	NA	No	
	Hexachlorocyclopentadiene	0/17	NA	NA	NA	NA	0.390	2.70	1.9	8.0	NA	NA	No	
	Hexachloroethane	0/17	NA	NA	NA	NA	0.390	2.70	2.0	86	NA	NA	No	
	Indeno(1,2,3-cd)pyrene	0/17	NA	NA	NA	NA	0.390	2.70	1.1	210	NA	NA	No	
	Isophorone	0/17	NA	NA	NA	NA	0.390	2.70	570	24,000	NA	NA	No	
	1-Methylnaphthalene	0/17	NA	NA	NA	NA	0.390	2.70	24	390	NA	NA	No	
	2-Methylnaphthalene	0/17	NA	NA	NA	NA	0.390	2.70	310	4,700	NA	NA	No	
	2-Methylphenol (o-Cresol)	0/17	NA	NA	NA	NA	0.390	2.70	3,200	41,000	NA	NA	No	
	3&4-Methylphenol (m&p-Cresol)	0/17	NA	NA	NA	NA	0.789	5.41	3,200	41,000	NA	NA	No	
	2-Nitroaniline	0/17	NA	NA	NA	NA	0.987	6.76	630	8,000	NA	NA	No	
	3-Nitroaniline	0/17	NA	NA	NA	NA	0.987	6.76	NA	NA	NA	NA	No	
	4-Nitroaniline	0/17	NA	NA	NA	NA	0.987	6.76	NA	NA	NA	NA	No	
	Nitrobenzene	0/17	NA	NA	NA	NA	0.390	2.70	5.5	240	NA	NA	No	
	2-Nitrophenol	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	4-Nitrophenol	0/17	NA	NA	NA	NA	0.390	2.70	NA	NA	NA	NA	No	
	N-Nitrosodimethylamine	0/17	NA	NA	NA	NA	0.390	2.70	0.002	0.35	NA	NA	No	
	N-Nitrosodiphenylamine	0/17	NA	NA	NA	NA	0.390	2.70	110	7,200	NA	NA	No	
	N-Nitrosodi-n-propylamine	0/17	NA	NA	NA	NA	0.390	2.70	0.078	3.3	NA	NA	No	
	Pentachlorophenol	0/17	NA	NA	NA	NA	0.987	6.76	1.0	40	NA	NA	No	
	Phenanthrene	0/17	NA	NA	NA	NA	0.390	2.70	23,000	350,000	NA	NA	No	
	Phenol	0/17	NA	NA	NA	NA	0.390	2.70	19,000	250,000	NA	NA	No	
	Pyrene	0/17	NA	NA	NA	NA	0.390	2.70	2,300	34,000	NA	NA	No	
	1,2,4-Trichlorobenzene	0/17	NA	NA	NA	NA	0.390	2.70	24	280	NA	NA	No	
	2,4,5-Trichlorophenol	0/17	NA	NA	NA	NA	0.987	6.76	6,300	82,000	NA	NA	No	
	2,4,6-Trichlorophenol	0/17	NA	NA	NA	NA	0.390	2.70	49	820	NA	NA	No	
Dioxins*														
GVMC	Total 2,3,7,8-TCDD Equivalent	7/7	0.33275	2.66226	07/23/24	SB-3	0.074	0.13	5.2	240	NA	NA	No	

NA - Data is not available at this time
Highlighted cells indicate contaminants of concern selected for further consideration
*** - Dioxins detection limit and result provided in nanograms per kilogram (ng/Kg)**
[1] - It is important to note the 95% UCL was only calculated for constituents whose concentration exceeded either the Residential or Indsutrial De Minimis Standards

Table 22
Determination of Chemicals of Concern: Dissolved-Phase
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (µg/L)	Maximum Detection Limit (µg/L)	Groundwater De Minimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	Contaminant of Concern	Comment
Metals													
GVMC	**Arsenic**	0/10	NA	NA	NA	NA	20	20	10	NA	NA	No	
	Barium	10/10	45.8	1,050	09/05/24	MW-5	5.0	5.0	2,000	NA	NA	No	
	Cadmium	4/10	0.45 J	2.2	09/05/24	MW-3	2.0	2.0	5.0	NA	NA	No	
	Chromium	7/10	0.44 J	7.6	09/05/24	MW-4	5.0	5.0	22,000	NA	NA	No	
	Lead	0/10	NA	NA	NA	NA	10	10	15	NA	NA	No	
	Selenium	0/10	NA	NA	NA	NA	20	20	50	NA	NA	No	
	Silver	0/10	NA	NA	NA	NA	5.0	5.0	94	NA	NA	No	
	Mercury	0/10	NA	NA	NA	NA	0.2	0.2	2.0	NA	NA	No	
VOCs													
GVMC	**Acetone**	2/10	115	128	09/04/24	MW-6	50.0	50.0	14,000	NA	NA	No	
	Benzene	2/10	13.1	55.5	09/05/24	MW-4	1.0	1.0	5.0	2.7	118	Yes	
	Bromobenzene	0/10	NA	NA	NA	NA	1.0	1.0	NA	1,450	6,080	No	
	Bromochloromethane	0/10	NA	NA	NA	NA	1.0	1.0	NA	1,160	4,870	No	
	Bromodichloromethane	0/10	NA	NA	NA	NA	1.0	1.0	80	1.55	67.6	No	
	Bromoform (tribromomethane)	1/10	1.6 J	1.6 J	09/06/24	MW-11	4.0	4.0	80	243	10,600	No	
	Bromomethane	0/10	NA	NA	NA	NA	10.0	10.0	7.5	24.8	104	No	
	2-Butanone (MEK)	4/10	1.5 J	33.5	09/05/24	MW-4	10.0	10.0	5,600	3,890,000	16,400,000	No	
	Carbon disulfide	1/10	1.5 IL	1.5 IL	09/05/24	MW-4	1.0	1.0	810	1,910	8,010	No	
	Carbon tetrachloride	0/10	NA	NA	NA	NA	1.0	1.0	5.0	0.693	30.3	No	
	Chlorobenzene	0/10	NA	NA	NA	NA	1.0	1.0	100	786	3,300	No	
	Chloroethane	0/10	NA	NA	NA	NA	4.0	4.0	21,000	13,400	56,200	No	
	Chloroform	6/10	1.3	16.2	09/05/24	MW-5	1.0	1.0	80	1.33	58.1	Yes	
	Chloromethane	0/10	NA	NA	NA	NA	10.0	10.0	190	349	1,460	No	
	Dibromochloromethane	0/10	NA	NA	NA	NA	1.0	1.0	80	NA	NA	No	
	1,2-Dichlorobenzene	0/10	NA	NA	NA	NA	1.0	1.0	600	5710	24,000	No	
	1,3-Dichlorobenzene	0/10	NA	NA	NA	NA	1.0	1.0	NA	NA	NA	No	
	1,4-Dichlorobenzene	0/10	NA	NA	NA	NA	1.0	1.0	75	5.57	243	No	
	1,1-Dichloroethane	0/10	NA	NA	NA	NA	1.0	1.0	2.8	12.4	541	No	
	1,2-Dichloroethane	2/10	1.0	1.4	09/05/24	MW-7	1.0	1.0	5.0	3.92	171	No	
	1,2-Dichloroethene (Total)	0/10	NA	NA	NA	NA	2.0	2.0	5.0	3.92	171	No	
	1,1-Dichloroethene	0/10	NA	NA	NA	NA	1.0	1.0	7.0	297	1,250	No	
	cis-1,2-Dichloroethene	0/10	NA	NA	NA	NA	1.0	1.0	70	416	1,750	No	
	trans-1,2-Dichloroethene	0/10	NA	NA	NA	NA	1.0	2.0	100	175	736	No	
	1,2-Dichloropropane	0/10	NA	NA	NA	NA	1.0	1.0	5.0	11.6	268	No	
	cis-1,3-Dichloropropene	0/10	NA	NA	NA	NA	1.0	1.0	NA	NA	NA	No	
	trans-1,3-Dichloropropene	0/10	NA	NA	NA	NA	1.0	1.0	NA	NA	NA	No	
	Ethylbenzene	4/10	0.46 J	424	09/05/24	MW-4	1.0	1.0	700	6.85	299	Yes	
	2-Hexanone	2/10	11.3	18.9	09/05/24	MW-4	10.0	10.0	NA	16,500	69,500	No	
	Hexachlorobutadiene	0/10	NA	NA	NA	NA	0.98	1.1	0.14	0.716	31.3	No	

Table 22
Determination of Chemicals of Concern: Dissolved-Phase
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (µg/L)	Maximum Detection Limit (µg/L)	Groundwater De Minimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	Contaminant of Concern	Comment
VOCs													
GVMC	Isopropylbenzene (Cumene)	3/10	6.4	177	09/05/24	MW-4	1.0	1.0	450	2,080	8,730	No	
	Methylene chloride	0/10	NA	NA	NA	NA	1.0	1.0	5.0	1,200	31,200	No	
	4-Methyl-2-pentanone (MIBK)	2/10	7.6 J	17.5	09/05/24	MW-4	10.0	10.0	1,200	1,060,000	4,470,000	No	
	Methyl tert butyl ether	3/10	0.59 J	1.9	09/04/24	MW-6	1.0	1.0	14	722	31,500	No	
	Naphthalene	2/10	72.2	96.9	09/05/24	MW-4	4.0	4.0	0.12	10.9	477	Yes	
	Styrene	0/10	NA	NA	NA	NA	1.0	1.0	100	19,400	81,700	No	
	1,1,2,2-Tetrachloroethane	2/10	2.2	3.3	09/04/24	MW-6	1.0	1.0	0.076	6.59	288	No	
	Tetrachloroethene (PCE)	0/10	NA	NA	NA	NA	1.0	1.0	5.0	28.1	456	No	
	Toluene	2/10	2.9	56.3	09/05/24	MW-4	1.0	1.0	1,000	35,200	148,000	No	
	1,2,4-Trichlorobenzene	0/10	NA	NA	NA	NA	4.0	4.0	70	87.8	369	No	
	1,1,1-Trichloroethane	0/10	NA	NA	NA	NA	1.0	1.0	200	12,400	52,100	No	
	1,1,2-Trichloroethane	0/10	NA	NA	NA	NA	1.0	1.0	5.0	9.83	49.1	No	
	Trichloroethene (TCE)	0/10	NA	NA	NA	NA	1.0	1.0	5.0	2.06	38	No	
	1,2,4-Trimethylbenzene	5/10	2.1	938	09/05/24	MW-4	1.0	1.0	56	544	2,290	Yes	
	1,3,5-Trimethylbenzene	5/10	0.51 J	335	09/05/24	MW-4	1.0	1.0	60	382	1,600	Yes	
	Vinyl chloride	0/10	NA	NA	NA	NA	1.0	1.0	2.0	0.197	33	No	
	Xylenes (Total)	2/10	414	1,080	09/05/24	MW-4	3.0	3.0	10,000	759	3,190	Yes	
	m,p-Xylene	4/10	0.95 J	889	09/05/24	MW-4	2.0	2.0	NA	703	2,950	No	
	o-Xylene	2/10	175	195	09/05/24	MW-4	1.0	1.0	NA	985	4,140	No	
PAHs													
GVMC	Acenaphthene	0/10	NA	NA	NA	NA	0.98	1.1	240	NA	NA	No	
	Acenaphthylene	0/10	NA	NA	NA	NA	0.98	1.1	240	NA	NA	No	
	Anthracene	0/10	NA	NA	NA	NA	0.98	1.1	1,800	NA	NA	No	
	Benzo(a)anthracene	0/10	NA	NA	NA	NA	0.98	1.1	0.03	176	NA	No	
	Benzo(a)pyrene	0/10	NA	NA	NA	NA	0.98	1.1	0.2	NA	NA	No	
	Benzo(b)fluoranthene	0/10	NA	NA	NA	NA	0.98	1.1	0.25	NA	NA	Yes	
	Benzo(g,h,i)perylene	0/10	NA	NA	NA	NA	0.98	1.1	600	NA	NA	No	
	Benzo(k)fluoranthene	0/10	NA	NA	NA	NA	0.98	1.1	2.5	NA	NA	No	
	Chrysene	0/10	NA	NA	NA	NA	0.98	1.1	25	NA	NA	No	
	Dibenzo(a,h)anthracene	0/10	NA	NA	NA	NA	0.98	1.1	0.025	NA	NA	No	
	Fluoranthene	0/10	NA	NA	NA	NA	0.98	1.1	800	NA	NA	No	
	Fluorene	0/10	NA	NA	NA	NA	0.98	1.1	150	NA	NA	No	
	Indeno(1,2,3-cd)pyrene	0/10	NA	NA	NA	NA	0.98	1.1	0.25	NA	NA	No	
	Naphthalene	2/10	20.1	59.5	09/05/24	MW-4	4.0	4.0	0.12	10.9	477	Yes	
	Phenanthrene	0/10	NA	NA	NA	NA	0.98	1.1	1,700	NA	NA	No	
	Pyrene	0/10	NA	NA	NA	NA	0.98	1.1	79	NA	NA	No	

Table 22
Determination of Chemicals of Concern: Dissolved-Phase
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (µg/L)	Maximum Detection Limit (µg/L)	Groundwater De Minimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	Contaminant of Concern	Comment
					SVOCs								
GVMC	Acenaphthene	0/10	NA	NA	NA	NA	0.98	1.1	240	NA	NA	No	
	Acenaphthylene	0/10	NA	NA	NA	NA	0.98	1.1	240	NA	NA	No	
	Anthracene	0/10	NA	NA	NA	NA	0.98	1.1	1,800	NA	NA	No	
	Benzo(a)anthracene	0/10	NA	NA	NA	NA	0.98	1.1	0.03	0.0745	NA	No	
	Benzo(a)pyrene	0/10	NA	NA	NA	NA	0.98	1.1	0.2	NA	NA	No	
	Benzo(b)fluoranthene	0/10	NA	NA	NA	NA	0.98	1.1	0.25	NA	NA	No	
	Benzo(g,h,i)perylene	0/10	NA	NA	NA	NA	0.98	1.1	600	NA	NA	No	
	Benzo(k)fluoranthene	0/10	NA	NA	NA	NA	0.98	1.1	2.5	NA	NA	No	
	Benzoic acid	0/10	NA	NA	NA	NA	14.7	17.2	75,000	NA	NA	No	
	Benzyl alcohol	1/10	15.1	15.1	09/04/24	MW-6	0.98	1.1	2,000	NA	NA	No	
	4-Bromophenyl phenyl ether	0/10	NA	NA	NA	NA	0.98	1.1	NA	NA	NA	No	
	Butyl benzyl phthalate	0/10	NA	NA	NA	NA	2.5	2.9	16	NA	NA	No	
	Carbazole	0/10	NA	NA	NA	NA	0.98	1.1	NA	NA	NA	No	
	4-Chloro-3-methylphenol	1/10	1.5	1.5	09/04/24	MW-7	0.98	1.1	NA	NA	NA	No	
	4-Chloroaniline	0/10	NA	NA	NA	NA	0.98	1.1	0.37	NA	NA	No	
	Bis(2-Chloroethoxy)Methane	2/10	1.6	5.4 H2	09/05/24	MW-4	0.98	1.1	NA	30.5	1,330	No	
	Bis(2-Chloroethyl)ether	1/10	11.7	11.7	09/04/24	MW-6	0.98	1.1	0.014	NA	NA	Yes	
	Bis(2-Chloroisopropyl)ether	0/10	NA	NA	NA	NA	0.98	1.1	0.36	NA	NA	No	
	2-Chloronaphthalene	1/10	1.1 J	1.1 J	09/06/24	MW-11	0.98	1.1	330	NA	NA	No	
	2-Chlorophenol	0/10	NA	NA	NA	NA	0.98	1.1	27	NA	NA	No	
	4-Chlorophenyl phenyl ether	0/10	NA	NA	NA	NA	0.98	1.1	NA	NA	NA	No	
	Chrysene	0/10	NA	NA	NA	NA	0.98	1.1	25	NA	NA	No	
	Dibenz(ah)anthracene	0/10	NA	NA	NA	NA	0.98	1.1	0.025	NA	NA	No	
	Dibenzofuran	0/10	NA	NA	NA	NA	0.98	1.1	7.9	NA	NA	No	
	1,2-Dichlorobenzene	0/10	NA	NA	NA	NA	1.0	1.0	600	5,710	2,400	No	
	1,3-Dichlorobenzene	0/10	NA	NA	NA	NA	1.0	1.0	NA	NA	NA	No	
	1,4-Dichlorobenzene	0/10	NA	NA	NA	NA	1.0	1.0	75	5.57	243	No	
	3,3-Dichlorobenzidine	0/10	NA	NA	NA	NA	0.98	1.1	0.13	NA	NA	No	
	2,4-Dichlorophenol	0/10	NA	NA	NA	NA	0.98	1.1	46	NA	NA	No	
	Diethyl phthalate	0/10	NA	NA	NA	NA	0.98	1.1	15,000	NA	NA	No	
	2,4-Dimethylphenol	2/10	1.2	16.6 CH, H2	09/05/24	MW-4	0.98	1.1	360	NA	NA	No	
	Dimethyl phthalate	0/10	NA	NA	NA	NA	0.98	1.1	NA	NA	NA	No	
	Di-n-butyl phthalate	0/10	NA	NA	NA	NA	0.98	1.1	900	NA	NA	No	
	4,6-Dinitro-2-methylphenol	0/10	NA	NA	NA	NA	2.5	2.9	NA	NA	NA	No	
	2,4-Dinitrophenol	0/10	NA	NA	NA	NA	2.5	2.9	39	NA	NA	No	
	2,4-Dinitrotoluene	0/10	NA	NA	NA	NA	0.98	1.1	0.24	NA	NA	No	
	2,6-Dinitrotoluene	0/10	NA	NA	NA	NA	0.98	1.1	0.049	NA	NA	No	
	di-n-Octyl phthalate	0/10	NA	NA	NA	NA	2.5	2.9	NA	NA	NA	No	
	Bis(2-ethylhexyl)phthalate (DEHP)	0/10	NA	NA	NA	NA	2.5	2.9	6.0	NA	NA	No	

Table 22
Determination of Chemicals of Concern: Dissolved-Phase
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration (µg/L)	Maximum Detected Concentration (µg/L)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit (µg/L)	Maximum Detection Limit (µg/L)	Groundwater De Minimis Standard (µg/L)	EPA Vapor Intrusion Screening Levels [1] (Residential)	EPA Vapor Intrusion Screening Levels [2] (Industrial)	Contaminant of Concern	Comment
					SVOCs								
GVMC	Fluoranthene	0/10	NA	NA	NA	NA	0.98	1.1	800	NA	NA	No	
	Fluorene	0/10	NA	NA	NA	NA	0.98	1.1	150	NA	NA	No	
	Hexachloro-1,3-butadiene	0/10	NA	NA	NA	NA	0.98	1.1	0.14	0.716	31.3	No	
	Hexachlorobenzene	0/10	NA	NA	NA	NA	0.98	1.1	1.0	0.275	12	No	
	Hexachlorocyclopentadiene	0/10	NA	NA	NA	NA	0.98	1.1	50	9.58	40.2	No	
	Hexachloroethane	0/10	NA	NA	NA	NA	0.98	1.1	0.33	4.26	186	No	
	Indeno(1,2,3-cd)pyrene	0/10	NA	NA	NA	NA	0.98	1.1	0.25	NA	NA	No	
	Isophorone	0/10	NA	NA	NA	NA	0.98	1.1	78	NA	NA	No	
	1-Methylnaphthalene	2/10	19.3 H2	30.5	09/04/24	MW-6	0.98	1.1	1.1	NA	NA	Yes	
	2-Methylnaphthalene	2/10	7.8	49	09/04/24	MW-6	0.98	1.1	36	NA	NA	Yes	
	2-Methylphenol (o-Cresol)	0/10	NA	NA	NA	NA	0.98	1.1	930	NA	NA	No	
	3&4-Methylphenol (m&p Cresol)	1/10	1.3 J	1.3 J	09/05/24	MW-4	2.0	2.3	930	NA	NA	No	
	Naphthalene	2/10	30.6	51.9	09/05/24	MW-4	0.98	1.1	0.12	10.9	477	Yes	
	2-Nitroaniline	0/10	NA	NA	NA	NA	2.5	2.9	190	NA	NA	No	
	3-Nitroaniline	0/10	NA	NA	NA	NA	2.5	2.9	NA	NA	NA	No	
	4-Nitroaniline	0/10	NA	NA	NA	NA	2.5	2.9	NA	NA	NA	No	
	Nitrobenzene	0/10	NA	NA	NA	NA	0.98	1.1	0.14	177	7,710	No	
	2-Nitrophenol	0/10	NA	NA	NA	NA	0.98	1.1	NA	NA	NA	No	
	4-Nitrophenol	0/10	NA	NA	NA	NA	0.98	1.1	NA	NA	NA	No	
	N-Nitrosodimethylamine	0/10	NA	NA	NA	NA	0.98	1.1	0.00011	1.98	240	No	
	N-Nitroso di-n-propylamine	0/10	NA	NA	NA	NA	0.98	1.1	0.011	NA	NA	No	
	N-Nitrosodiphenylamine	0/10	NA	NA	NA	NA	0.98	1.1	12	NA	NA	No	
	Pentachlorophenol	0/10	NA	NA	NA	NA	2.5	2.9	1.0	NA	NA	No	
	Phenanthrene	0/10	NA	NA	NA	NA	0.98	1.1	1,700	NA	NA	No	
	Phenol	1/10	0.88 J, H2	0.88 J, H2	09/05/24	MW-4	0.98	1.1	5,800	NA	NA	No	
	Pyrene	0/10	NA	NA	NA	NA	0.98	1.1	79	NA	NA	No	
	1,2,4-Trichlorobenzene	0/10	NA	NA	NA	NA	4.0	4.0	70	87.8	369	No	
	2,4,5-Trichlorophenol	0/10	NA	NA	NA	NA	2.5	2.9	1,200	NA	NA	No	
	2,4,6-Trichlorophenol	0/10	NA	NA	NA	NA	0.98	1.1	4.1	NA	NA	No	

NA - Data is not available at this time
ND - No detection found
Highlighted cells indicate contaminants of concern selected for further consideration

Table 23
Determination of Chemicals of Concern: Vapor-Phase and Indoor Air
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration ($\mu g/m^3$)	Maximum Detected Concentration ($\mu g/m^3$)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit ($\mu g/m^3$)	Maximum Detection Limit ($\mu g/m^3$)	Residential Target Sub-Slab and Near Source Soil Gas Concentration [1]	Industrial Target Sub-Slab and Near Source Soil Gas Concentration [2]	Residential Target Indoor Air Concentration [1]	Industrial Target Indoor Air Concentration [2]	Contaminant of Concern	Comment
VOCs (TO-15)														
GVMC	**Acetone**	5/5	14.9	139	10/09/24	VMP-3	2.97	2.97	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	Allyl chloride	0/5	NA	NA	NA	NA	0.626	0.626	1.56E+01	1.46E+02	4.68E-01	4.38E+00	No	
	Benzene	5/5	0.380 J	0.741	10/09/24	VMP-3	0.639	0.639	1.20E+01	5.24E+02	3.60E-01	1.57E+01	No	
	Benzyl chloride	0/5	NA	NA	NA	NA	1.04	1.04	1.91E+00	8.34E+01	5.73E-02	2.50E+00	No	
	Bromodichloromethane	0/5	NA	NA	NA	NA	1.34	1.34	2.53E+00	1.10E+02	7.59E-02	3.31E+00	No	
	Bromoform	0/5	NA	NA	NA	NA	6.21	6.21	8.51E+01	3.72E+03	2.55E+00	1.11E+02	No	
	Bromomethane	0/5	NA	NA	NA	NA	0.776	0.776	1.74E+02	7.30E+02	5.21E+00	2.19E+01	No	
	1,3-Butadiene	0/5	NA	NA	NA	NA	4.43	4.43	3.12E+00	1.36E+02	9.36E-02	4.09E+00	No	
	Carbon disulfide	5/5	1.29	7.28	10/09/24	VMP-1	0.622	0.622	2.43E+04	1.02E+05	7.30E+02	1.86E+02	No	
	Carbon tetrachloride	1/5	0.472 J	0.472 J	10/09/24	VMP-3 (Dup)	1.26	1.26	1.56E+01	6.81E+02	5.21E+01	2.04E+01	No	
	Chlorobenzene	0/5	NA	NA	NA	NA	0.924	0.924	1.74E+03	7.30E+03	1.74E+03	2.19E+01	No	
	Chloroethane	0/5	NA	NA	NA	NA	0.528	0.528	1.39E+05	5.84E+05	4.17E+03	1.75E+04	No	
	Chloroform	0/5	NA	NA	NA	NA	0.973	0.973	4.07E+00	1.78E+02	1.22E-01	5.33E+00	No	
	Chloromethane	5/5	0.692	2.19	10/09/24	VMP-1	0.413	0.413	3.13E+03	1.31E+04	9.39E+01	3.94E+02	No	
	2-Chlorotoluene	0/5	NA	NA	NA	NA	1.03	1.03	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	Cyclohexane	1/5	1.04	1.04	10/09/24	VMP-1	0.689	0.689	2.09E+05	8.76E+05	6.26E+03	2.63E+04	No	
	Dibromochloromethane	0/5	NA	NA	NA	NA	1.70	1.70	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	1,2-Dibromoethane (EDB)	0/5	NA	NA	NA	NA	1.54	1.54	1.56E-01	6.81E+00	4.68E-03	2.04E-01	No	
	1,2-Dichlorobenzene	0/5	NA	NA	NA	NA	1.20	1.20	6.95E+03	2.92E+04	2.09E+02	8.76E+02	No	
	1,3-Dichorobenzene	0/5	NA	NA	NA	NA	1.20	1.20	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	1,4-Diclorobenzene	3/5	0.390 J	0.752 J	10/09/24	VMP-3	1.20	1.20	8.51E+00	3.72E+02	2.55E-01	1.11E+01	No	
	1,1-Dichloroethane	0/5	NA	NA	NA	NA	0.802	0.802	5.85E+01	2.56E+03	1.75E+00	7.67E+01	No	
	1,2-Dichloroethane	0/5	NA	NA	NA	NA	0.810	0.810	3.60E+00	1.57E+02	1.08E-01	4.72E+00	No	
	1,1-Dichloroethene	0/5	NA	NA	NA	NA	0.793	0.793	6.95E+03	2.92E+04	4.13E+00	1.73E+01	No	
	cis-1,2-Dichloroethene	0/5	NA	NA	NA	NA	0.793	0.793	1.39E+03	5.84E+03	4.17E+01	1.75E+02	No	
	trans-1,2-Dichloroethene	0/5	NA	NA	NA	NA	0.793	0.793	1.39E+03	5.84E+03	4.17E+01	1.75E+02	No	
	1,2-Dichloropropane	0/5	NA	NA	NA	NA	0.924	0.924	2.53E+01	5.84E+02	7.59E-01	1.75E+01	No	
	cis-1,3-Dichloropropene	0/5	NA	NA	NA	NA	0.908	0.908	2.34E+01	1.02E+03	7.02E-01	3.07E+01	No	
	trans-1,3-Dichloropropene	0/5	NA	NA	NA	NA	0.908	0.908	2.34E+01	1.02E+03	7.02E-01	3.07E+01	No	
	1,4-Dioxane	0/5	NA	NA	NA	NA	0.721	0.721	1.87E+01	8.18E+02	5.62E-01	2.45E+01	No	
	Ethanol	5/5	86.5	141.0	10/09/24	VMP-1	1.19	1.19	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	Ethylbenzene	4/5	0.370 J	1.06	10/09/24	VMP-3	0.867	0.867	3.74E+01	1.64E+03	1.12E+00	4.91E+01	No	
	4-Ethyltoluene	4/5	0.589 J	2.84	10/09/24	VMP-3	0.982	0.982	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	Trichlorofluoromethane	5/5	1.24	1.30	10/09/24	VMP-1	1.12	1.12	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	Dichlorodifluoromethane	5/5	1.85	2.13	10/09/24	IA-1	0.989	0.989	3.48E+03	1.46E+04	1.04E+02	4.38E+02	No	
	1,1,2-Trichlorotrifluoroethane	0/5	NA	NA	NA	NA	1.53	1.53	1.74E+05	7.30E+05	5.21E+03	2.19E+04	No	
	1,2-Dichlorotetrafluoroethane	0/5	NA	NA	NA	NA	1.40	1.40	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	n-Heptane	0/5	NA	NA	NA	NA	0.818	0.818	1.39E+04	5.84E+04	4.17E+02	1.75E+04	No	
	Hexachloro-1,3-butadiene	0/5	NA	NA	NA	NA	6.73	6.73	4.25E+00	1.86E+02	1.28E-01	5.57E+00	No	
	n-Hexane	0/5	NA	NA	NA	NA	2.22	2.22	2.43E+04	1.02E+05	7.30E+02	3.07E+03	No	
	Isopropylbenzene	0/5	NA	NA	NA	NA	0.983	0.983	1.39E+04	5.84E+04	4.17E+02	1.75E+03	No	

Table 23
Determination of Chemicals of Concern: Vapor-Phase and Indoor Air
CAMC Greenbrier Valley Medical Center
Ronceverte, WV
VRP #24023

Activity	COPCs Associated with Activity	Frequency of Detection	Minimum Detected Concentration ($\mu g/m^3$)	Maximum Detected Concentration ($\mu g/m^3$)	Date Maximum Concentration Detected	Sample with Maximum Detect	Minimum Detection Limit ($\mu g/m^3$)	Maximum Detection Limit ($\mu g/m^3$)	Residential Target Sub-Slab and Near Source Soil Gas Concentration [1]	Industrial Target Sub-Slab and Near Source Soil Gas Concentration [2]	Residential Target Indoor Air Concentration [1]	Industrial Target Indoor Air Concentration [2]	Contaminant of Concern	Comment
VOCs (TO-15)														
GVMC	**Methylene Chloride**	5/5	0.528 J	1.14	10/09/24	IA-1	0.694	0.694	3.38E+03	8.76E+04	1.01E+02	2.63E+03	No	
	Methyl Butyl Ketone	0/5	NA	NA	NA	NA	5.11	5.11	1.04E+03	4.38E+03	3.13E+01	1.31E+02	No	
	2-Butanone (MEK)	5/5	2.35 J	73.4	10/09/24	VMP-1	3.69	3.69	1.74E+05	7.30E+05	5.21E+03	2.19E+04	No	
	4-Methyl-2-pentanone (MIBK)	4/5	0.995 J	9.42	10/09/24	VMP-3	5.12	5.12	1.04E+05	4.38E+05	3.13E+03	1.31E+04	No	
	Methyl methacrylate	0/5	NA	NA	NA	NA	0.819	0.819	2.43E+04	1.02E+05	7.30E+02	3.07E+03	No	
	Methyl-tert-butyl-ether	0/5	NA	NA	NA	NA	0.721	0.721	3.60E+02	1.57E+04	1.08E+01	4.72E+02	No	
	Naphthalene	0/5	NA	NA	NA	NA	3.30	3.30	2.75E+00	1.20E+02	8.26E-02	3.61E+00	No	
	2-Propanol	5/5	10.3	117	10/09/24	IA-1	3.07	3.07	6.95E+03	2.92E+04	2.09E+02	8.76E+02	No	
	Propylene	5/5	2.26 B	2.65 B	10/09/24	IA-1	0.689	0.689	1.04E+05	4.38E+05	3.13E+03	1.31E+04	No	
	Styrene	2/5	0.438 J	0.608 J	10/09/24	VMP-2	1.70	1.70	3.48E+04	1.46E+05	1.04E+03	4.38E+03	No	
	1,1,2,2-Tetrachloroethane	0/5	NA	NA	NA	NA	1.37	1.37	1.61E+00	7.05E+01	4.84E-02	2.11E+00	No	
	Tetrachloroethene	0/5	NA	NA	NA	NA	1.36	1.36	3.60E+02	5.84E+03	1.08E+01	1.75E+02	No	
	Tetrahydrofuran	4/5	47.5	90.8	10/09/24	VMP-1	0.590	0.590	6.95E+04	2.92E+05	2.09E+03	8.76E+03	No	
	Toluene	5/5	2.46	36.5	10/09/24	VMP-1	0.753	0.753	1.74E+05	7.30E+05	5.21E+03	2.19E+04	No	
	1,2,4-Trichlorobenzene	0/5	NA	NA	NA	NA	4.66	4.66	6.95E+01	2.92E+02	2.09E+00	8.76E+00	No	
	1,1,1-Trichloroethane	0/5	NA	NA	NA	NA	1.09	1.09	1.74E+05	7.30E+05	5.21E+03	2.19E+04	No	
	1,1,2-Trichloroethane	0/5	NA	NA	NA	NA	1.09	1.09	5.85E+00	2.92E+01	1.75E-01	8.76E-01	No	
	Trichloroethene	0/5	NA	NA	NA	NA	1.07	1.07	1.59E+01	2.92E+02	4.78E-01	8.76E+00	No	
	1,2,4-Trimethylbenzene	5/5	0.569 J	3.71	10/09/24	VMP-3	0.982	0.982	2.09E+03	8.76E+03	6.26E+01	2.63E+02	No	
	1,3,5-Trimethylbenzene	4/5	0.501 J	0.967 J	10/09/24	VMP-3 (Dup)	0.982	0.982	2.09E+03	8.76E+03	6.26E+01	2.63E+02	No	
	2,2,4-Trimethylpentane	4/5	4.28	13.9	10/09/24	VMP-1	0.934	0.934	NE	NE	No Inhal. Tox. Info	No Inhal. Tox. Info	No	
	Vinyl chloride	0/5	NA	NA	NA	NA	0.511	0.511	5.59E+00	9.29E+02	1.68E-01	2.79E+01	No	
	Vinyl Bromide	0/5	NA	NA	NA	NA	0.875	0.875	6.24E+00	2.73E+02	1.87E-01	8.18E+00	No	
	Vinyl acetate	0/5	NA	NA	NA	NA	2.22	2.22	6.95E+03	2.92E+04	2.09E+02	8.76E+02	No	
	Xylenes, Total	5/5	1.38 J	6.08	10/09/24	VMP-3 (Dup)	2.61	2.61	3.48E+03	1.46E+04	1.04E+02	4.38E+02	No	
	m&p-Xylene	5/5	0.954 J	4.29	10/09/24	VMP-3 (Dup)	1.73	1.73	3.48E+03	1.46E+04	1.04E+02	4.38E+02	No	
	o-Xylene	5/5	0.420 J	1.83	10/09/24	VMP-3	0.867	0.867	3.48E+03	1.46E+04	1.04E+02	4.38E+02	No	

NA - Data is not available at this time
ND - No detection found
Highlighted cells indicate contaminants of concern selected for further consideration
[1] USEPA Residential Soil Gas/Target Indoor Air VISL is based on a target risk of $1x10^{-6}$, a target hazard quotient of 1, and a groundwater temperature of 13°C.
[2] USEPA Industrial Soil Gas/Target Indoor Air VISL is based on a target risk of $1x10^{-5}$, a target hazard quotient of 1, and a groundwater temperature of 13°C.

APPENDIX A

SOIL BORING LOGS

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-01
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 1 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/22/24
	DATE FINISHED: 07/22/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

DEPTH FEET	SAMPLE STRATA	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	PID READING
0		Brown	(0.0'-0.5'): Topsoil. Surface fill. No odor. Dry.	OL	0-1 ft: 0.1 1-2 ft: 0.6
		Brown	(0.5'-3.5'): Brown Silt with sand, no odor, dry, low plasticity.	SM	2-3 ft: 0.4 3-4 ft: 0.3
5		Reddish orange	(3.5'-5.5'): Reddish orange Clayey Silt. Dry no odor.	CL	4-5 ft: 0.3
		Reddish orange	(5.5'-8.0'): Reddish orange Clay with Sand. Dry. No odor.	CL	5-6 ft: 0.0 6-7 ft: 0.1 7-8 ft: 0.1 8-9 ft: 0.0 9-10 ft: 0.4
10		Reddish grey	(8.0'-12.0'): Reddish grey Silty Clay. Dry. No odor.	CL	10-11 ft: 0.1 11-12 ft: 0.0 12-13 ft: 0.1 13-14 ft: 0.0
15		Greyish brown	(12.0'-16.5'): Greyish brown Clay with little Silt. Red/ brown motling, dry, stiff, no odor.	CL	15-16ft: 0.6 16-17ft: 0.3 17-18ft: 0.3 18-19ft: 0.3 19-20ft: 0.4
20		Reddish Orange	(16.5'-21.0'): Reddish orange Silty Clay with some Sand. Grey/brown mottling, moist, soft, plastic, no odor.	CL	
		Dark Reddish Brown	(21.0'-22.0'): Dark reddish brown Sandy Clay with sandy silt. Moist to wet, soft, plastic, no odor. Refusal @ 22 feet.	CL	20-21ft: 0.3 21-22ft: 0.6
25					

Refusal at 22ft .

COMMENTS:

PROJECT NO.: WV-1966

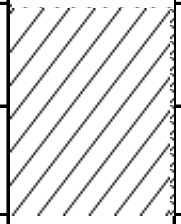
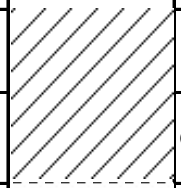
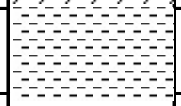
BORING NO.: SB-01

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

BORING NO: SB-02

PROJECT: Greenbier Valley Medical Center
SHEET: 2 of 15
CLIENT: CAMC Greenbrier Valley Medical Center
JOB NO.: WV-1966
BORING CONTRACTOR: KEMRON
LOCATION: Ronceverte, WV
GROUND ELEVATION: Not Yet Surveyed
DATE STARTED: 07/31/24
DATE FINISHED: 07/31/24
DRILLER: Envirocheck of VA
GEOLOGIST: Evan Amick
REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION			
DEPTH			MATERIAL	USCS	PID READING
FEET	STRATA	COLOR	DESCRIPTION		
0		Black and grey	(0.0'-1.0'): Asphalt and gravel surface cover.	GW	0-18 ft: 0.0
		Orangish brown	(1.0'-2.5'): Orangish brown Silty Clay with black and red mottling, brick and rock fragments (fill), dry, medium stiffness, low plasticity, no odor.	CL	
5		Reddish orange	(2.5'-4.5'): Reddish orange Clay with trace silt, dry, medium stiffness, plastic, no odor, some limestone fragments.	CL	
		Grey	(4.5'-5.0'): Limestone. Broke through with hand auger and spud bar.		
10		Reddish orange	(10.0'-14.0'): Reddish orange silty Clay with red and black mottling, moist, medium stiffness, plastic, no odor.	CL	
		Orange to brown	(14.0'-17.0'): Orange--brown Clay with trace Silt and Sand, black and grey mottling, some limestone fragments, moist, soft, no odor.	CL	
15		Brownish grey	(17.0'-18.0'): Brownish grey Clayey Sand, wet, losse, no odor. Refusal @ 18 feet.	SC	
20					

Refusal at 18ft .

COMMENTS:

PROJECT NO.: WV-1966
BORING NO.: SB-06

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-03
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 3 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Brown	(0.0'-0.5'): Topsoil surface covver.	OL	0 to 17 ft: 0.0
		Greyish brown	(0.5'-4.0'): Greyish Brown Silty Clay with little Sand, moist, soft, plastic, no odor. Fill noted at 3 feet.	CL	
5		Orange brown	(4.0'-7.0'): Orange brown Silty Clay with grey mottling and some Sand, moist, soft, no odor.	CL	
10		Reddish orange	(7.0'-12.5'): Reddish Orange Silty Clay with black mottling and little Sand. Trace limestone fragments, dry, soft, plastic, no odor.	CL	
		Yellowish orange	(12.5'-14.5'): Yellowish orange Clay with little sillt and black/grey mottling, moist, medium stiffness, plastic, no odor.	CL	
17		Yellowish orange	(14.5'-17.0'): Yellowish orange to orange-brown Sandy Clay with some silt, moist, soft, plastic, no odor. Wet @ 15 feet. Refusal @ 17 feet.	CL	

Refusal at 17' bgs.

COMMENTS:

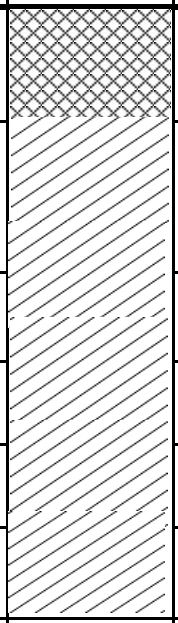
PROJECT NO.: WV-1966

BORING NO.: SB-03

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-04
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 4 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Brown	(0.0'-0.5'): Topsoil surface cover.	OL	0-1 ft: 4.5
		Orange brown	(0.5'-1.5'): Orange brown Silty Clay with some sand and gravel, dry, medium stiffness, low plasticity, no odor.	CL	1-2 ft: 1.3 2-3 ft: 2.8 3-4 ft: 2.4 4-5 ft: 1.6
5		Reddish orange	(1.5'-5.5'): Reddish orange Silty Clay with some Sand, dry, medium stiffness, low plasticity, grey and black mottling. Limestone fragments starting at 4 feet.	CL	5'-6': 0.3
		Yellowish orange	(5.5'-7.5'): Yellowish orange Clay with little Silt, dry, soft, plastic, black and grey mottling, no odor.	CL	6'-7': 0.7
		Greyish brown	(7.5'-9.5'): Greyish brown Silty Clay with orange and black mottling, dry, stiff, plastic, no odor, trace fine Sand.	CL	7-11 ft: 0.0
10		Brownish grey	(9.5'-11.0'): Brownish grey Silty Clay with orange mottling, moist, medium stiffness, no odor. Limestone refusal @ 11 feet.	CL	
15					

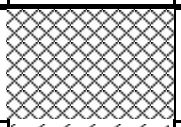
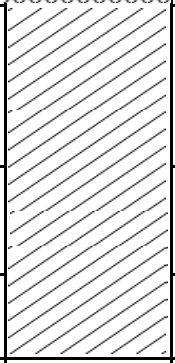
Refusal at 11ft .

COMMENTS:	PROJECT NO.: WV-1966
	BORING NO.: SB-04

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-05
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 5 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Brown	(0.0'-0.5'): Topsoil surface cover.	OL	0-1 ft: 4.2
5		Greyish brown	(0.5'-9.0'): Greyish brown Silty Clay with organic material and brick (fill), some Sand, soft, dry, no odor.	CL	1-2 ft: 2.7 2-3 ft: 3.2 3-4 ft: 1.7 4-5 ft: 2.2
10		Orange-brown	(9.0'-13.5'): Orange-brown Silty Clay with organic matetrial , black mottling, moist, medium stiffness, plastic, no odor.	CL	5-14 ft: 0.0
		Yellowish orange	(13.5'-14.0'): Yellowish orange Silty Clay with some Sand, moist, soft, plastic, no odor. Refusal @ 14 feet.	CL	
15					

Refusal at 14ft.

COMMENTS:

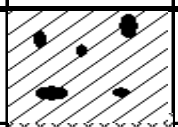
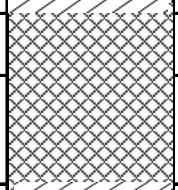
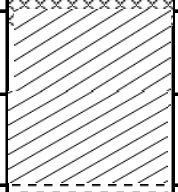
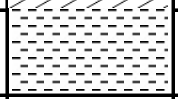
PROJECT NO.: WV-1966

BORING NO.: SB-05

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-06
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 6 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Brown	(0.0'-0.5'): Topsoil and gravel surface cover.	OL	0-18 ft: 0.0
		Greyish brown	(0.5'-1.0'): Greyish brown Silt with organic material, dry, soft, low plasticity, no odor.	OL	
5		Reddish orange	(1.0'-5.0'): Reddish orange Silt with trace Clay and fine Sand, dry, soft, low plasticity, no odor.	OL	
10		Reddish orange	(10.0'-14.0'): Reddish orange silty Clay with red and black mottling, moist, medium stiffness, plastic, no odor.	CL	
		Orange to brown	(14.0'-17.0'): Orange--brown Clay with trace Silt and Sand, black and grey mottling, some limestone fragments, moist, soft, no odor.	CL	
15		Brownish grey	(17.0'-18.0'): Brownish grey Clayey Sand, wet, loose, no odor. Refusal @ 18 feet.	SC	
20					

Refusal at 18ft .

COMMENTS:

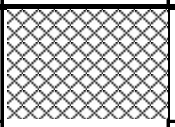
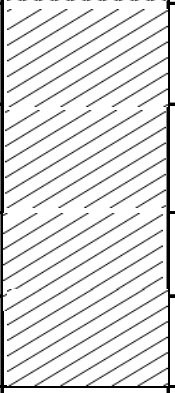
PROJECT NO.: WV-1966

BORING NO.: SB-06

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-07
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 7 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/24/24
	DATE FINISHED: 07/24/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Brown	(0.0'-0.5'): Topsoil surface cover.	OL	0-10 ft: 0.0
		Orange-brown	(0.5'-2.5'): Orange-brown Silty Clay, dry, soft, black and grey mottling, soft, low plasticity, no odor, trace limestone fragments.	CL	
5		Orange-brown	(2.5'-6.0'): Orange-brown Clayey Silt, dry, soft, some limestone fragments and organic material, grey and black mottling, no odor.	CL	
		Reddish orange	(6.0'-9.0'): Reddish orange Clay with some Silt, little Sand, some limestone fragements, moist, soft, no odor.	CL	
10		Greenish grey	(9.0'-10.0'): Olive grey Sandly Clay with some Silt, moist to wet, soft, plastic, no odor, some limestone fragments. Refusal @ 10 feet.	CL	
15					

Refusal at 10ft .

COMMENTS:	PROJECT NO.: WV-1966
	BORING NO.: SB-07

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-08
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 8 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/24/24
	DATE FINISHED: 07/24/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Brown	(0.0'-0.5'): Topsoil surface cover.	OL	0-14 ft: 0.0
		Reddish orange/ Greyish brown	(0.5'-1.5'): Reddish orange and greyish brown Silty Clay with black mottling, moist, medium stiffness, low plasticity, no odor.	CL	
5		Brownish grey	(1.5'-6.0'): Brownish grey Silty Clay with some Sand, black mottling, dry, soft, low plasticity, no odor.	CL	
		Orange-brown	(6.0'-11.0'): Orange-brown Silty Clay with grey mottling, moist, soft, plastic, no odor.	CL	
10		Greyish brown	(11.0'-14.0'): Greyish brown Silty Clay with some sand and limestone fragments, moist, soft, plastic, no odor. Wet @ 13 feet. Refusal @ 14 feet.	CL	
15					

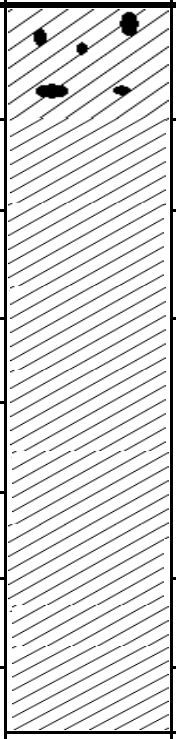
Refusal at 14ft .

COMMENTS:	PROJECT NO.: WV-1966
	BORING NO.: SB-08

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-09
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 9 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

DEPTH FEET	SAMPLE STRATA	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	PID READING
0		Brown	(0.0'-0.5'): Topsoil and gravel surface cover.	GC	
		Orangish brown to greyish brown	(0.5'-3.5'): Orangish brown to greyish brown Clay with some silt, rock fragments, black mottling, dry, stiff, low plasticity, no odor.	CL	
5		Reddish orange	(3.5'-6.0'): Orangish brown to greyish brown Clay with some silt, black mottling, dry, medium stiffness, medium plasticity, no odor.	CL	0-18 ft: 0.0
10		Reddish orange	(6.0'-20.0'): Reddish orrange Clay with trace silt, gray mottling, dry, stiff, medium plasticity, no odor.	CL	
15					18-19 ft: 1.1
20		Reddish orange	(20.0'-22.5'): Reddish orange Silty Clay with black mottling, moist, soft, plastic, no odor, wet @ 21.5 feet.	CL	19-24 ft: 0.0
		Dark Red	(22.5'-24.0'): Dark red Clay with weathered shale and limestone, dry, stiff, plastic, no odor, refusal @ 24 feet.	CL	
25					

Refusal at 22ft .

COMMENTS:

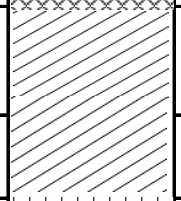
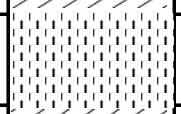
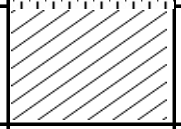
PROJECT NO.: WV-1966

BORING NO.: SB-09

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-10
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 10 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

DEPTH FEET	SAMPLE STRATA	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	PID READING
0		Brown	(0.0'-1.0'): Gravel surface cover, no recovery, air knife.	GW	1'-2': 0.6 2'-3': 0.6 3'-4': 2.4 4'-5': 0.6
		Greyish brown	(1.0'-3.0'): Greyish brown Silt, dry, soft, low plasticity with some gravel (fill), no odor, red mottling.	OL	
5		Greyish brown	(3.0'-7.5'): Greyish brown Clay with some Silt, moist, soft, plastic, no odor.	CL	5'-6': 2.2 6'-7': 0.0 7'-8': 0.3
10		Reddish orange	(7.5'-12.0'): reddish orange Clay with trace silt and some sand, dry, medium stiffness, plastic, no odor.	CL	
15		Medium grey	(12.0'-16.0'): Medium gray Silty Sand (fine grained), firm, dense, cohesive, moist, no odor.	SM	8'-18': 0.0
		Orangish brown to Yellowish orange	(16.0'-18.0'): Orangish brown to yellowish orange Clay with trace Silt, dry, stiff, low plasticity, no odor, refusal @ 18 feet.	CL	
20					

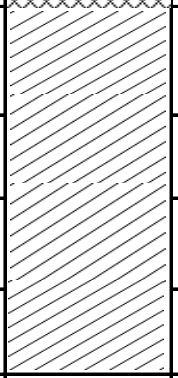
Refusal at 18ft.

COMMENTS:	PROJECT NO.: WV-1966
	BORING NO.: SB-10

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

	BORING NO: SB-11
PROJECT: Greenbier Valley Medical Center	**SHEET: 11 of 15**
CLIENT: CAMC Greenbrier Valley Medical Center	**JOB NO.: WV-1966**
BORING CONTRACTOR: KEMRON	**LOCATION: Ronceverte, WV**
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Black and grey	(0.0'-1.0'): Asphalt and gravel surface cover.	GW	1'-2': 0.1 2'-3': 2.3 3'-4': 0.7 4'-5': 1.2
		Greyish brown	(1.0'-3.5'): Greyish brown Silt wiith some clay, dry, stiff, low plasticity, no odor.	OL	
5		Brownish grey	(3.5'-7.5'): Brownish grey Silty Clay with orange mottling, dry, medium stiffness, low plasticity, no odor.	CL	5'-6': 0.0 6'-7': 1.0 7'-8': 0.4
10		Medium grey to olive grey	(7.5'-13.5'): Medium grey to olive grey Clay with some Silt and Sand, moist to wet @ 10-12.5 feet.	CL	
15		Reddish orange	(13.5'-17.5'): reddish orange Clay with trace Silt, dry, low plasticity from 13.5 to 16 feet, plastic from 16 to 17.5 feet, no odor.	CL	8'-19': 0.0
		Brownish yellow	(17.5'-19.0'): Brownish yellow Clay with black mottling, dry, stiff, plastic, no odor. Refusal @ 19 feet.	CL	
20					

Refusal at 19ft.

COMMENTS:

PROJECT NO.: WV-1966

BORING NO.: SB-11

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-12
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 12 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Black and grey	(0.0'-0.75'): Asphalt and gravel surface cover.	GW	0'-1': 3.6 1'-2': 2.8 2'-3': 1.9 3'-4': 2.0 4'-5': 1.8 5'-6': 0.9 6'-7': 0.0 7'-8': 0.6 8'-9': 1.2 9'-10': 1.2 10'-16': 0.0 16'-17': 1.2 18'-19': 0.6
		Reddish orange	(0.75'-6.0'): Reddish orange Silty Clay with black mottling, rock fragments (fill), moist, medium stiffness, no odor.	CL	
5		Dark red	(6.0'-7.5'): Dark red Clay with some silt, dry, stiff, plastic, no odor.	CL	
10		Reddish orange	(7.5'-12.5'): Reddish orange to yellowish brown Silty Clay with some fine sand, moist, soft, plastic, no odor.	CL	
15		Dark red	(12.5'-15.0'): Dark red and yellowish brown Clay with gray mottling, dry, stiff, plastic, no odor.	CL	
		Yellowish brown	(15.0'-17.0'): Yellowish brown Silty Clay (sand lens @ 16 feet), moist to wet @ 17 feet, soft, plastic, no odor.	CL	
		Yellowish brown	(17.0'-19.0'): Yellowish brown Sandy Clay with some silt, plastic, no odor. Wet to saturated @ 18 feet..Refusal @ 19 feet.	CL	
20					

Refusal at 19ft.

COMMENTS:

PROJECT NO.: WV-1966

BORING NO.: SB-12

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-13
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 13 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

	SAMPLE	DESCRIPTION		USCS	PID READING
DEPTH			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Grey	(0.0'-0.5'): Gravel surface cover.	GW	0'-1': 0.1 1'-2': 0.3 2'-3': 0.3 3'-4': 0.4 4'-5': 0.4
		Reddish orange	(0.5'-1.5'): Reddish orange Silty Clay with some sand and gravel (fill), dry, stiff, low plasticity, no odor.	OL	
5		Greyish brown	(1.5'-3.5'): Greyish brown Clay with trace silt and sand, moist, soft, plastic, no odor.	CL	
10		Reddish orange	(3.5'-7.5'): Reddish orange Clay with trace fine sand, grey mottling, moist to wet (surface water), soft, plastic, no odor.	CL	
		Reddish orange and yellowish brown	(7.5'-12.0'): Reddish orange and yellowish brown Clay will trace silt, dry, stiff, plastic, no odor.	CL	5'-17': 0.0
		Yellowish brown to reddish orange	(12.0'-14.5'): Yellowish brown to reddish orange Sandy Clay with some gravel, wet, soft, low plasticity, no odor.	CL	
15		Yellowish brown	(14.5'-15.5'): Yellowish brown fine grained sand with some silt and brown/red mottlting, dry, dense, firm, no odor.	CL	
		Dark red	(15.5'-17.0'): Dark red Clay, grey/black mottling, dry, stiff, plastic, no odor. Refusal @ 17 feet.	CL	
20					

Refusal at 17ft.

COMMENTS:

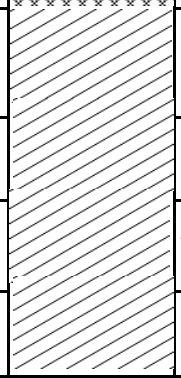
PROJECT NO.: WV-1966

BORING NO.: SB-13

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-14
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 14 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

DEPTH	SAMPLE	DESCRIPTION		USCS	PID READING
			MATERIAL		
FEET	STRATA	COLOR	DESCRIPTION		
0		Grey	(0.0'-0.5'): Gravel surface cover.	GW	0'-1': 2.5
		Reddish orange	(0.5'-2.0'): Reddish orange Silty Clay with sand and gravel, moist, medium stiffness, low plasticity, no odor.	OL	1'-18': 0.0
5		Reddish orange to yellowish brown	(2.0'-8.0'): Reddish orange to yellowish brown Clay with trace silt, dry, stiff, plastic, no odor.	CL	
10		Yellowish orange	(8.0'-13.0'): Yellowish orange Clay with some silt, dry to moist, stiff, plastic, no odor.	CL	
		Yellowish Brown	(13.0'-15.0'): Yellowish brown Clay with some sand, moist to wet, plastic, no odor.	CL	
15		Dark red to reddish brown	(15.0'-18.0'): Dark red to reddish brown Clay with trace silt, dry, stiff, plastic, no odor. Refusal @ 18 feet.	CL	
20					

Refusal at 18ft.

COMMENTS:

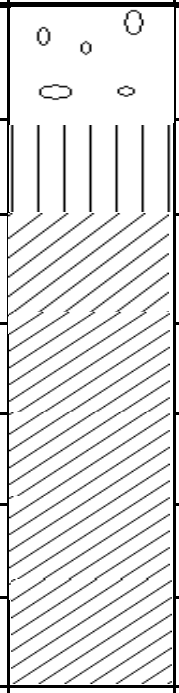
PROJECT NO.: WV-1966

BORING NO.: SB-14

KEMRON ENVIRONMENTAL SERVICES

TEST BORING LOG

PROJECT: Greenbier Valley Medical Center	BORING NO: SB-15
CLIENT: CAMC Greenbrier Valley Medical Center	SHEET: 15 of 15
BORING CONTRACTOR: KEMRON	JOB NO.: WV-1966
	LOCATION: Ronceverte, WV
	GROUND ELEVATION: Not Yet Surveyed
	DATE STARTED: 07/23/24
	DATE FINISHED: 07/23/24
	DRILLER: Envirocheck of VA
	GEOLOGIST: Evan Amick
	REVIEWED BY: Abdo Chaber

DEPTH FEET	SAMPLE STRATA	DESCRIPTION COLOR	DESCRIPTION MATERIAL DESCRIPTION	USCS	PID READING
0		Grey	(0.0'-0.5'): Gravel surface cover.	GW	0'-1': 0.3 1'-2': 0.5 2'-3': 0.5 3'-4': 0.3 4'-5': 0.5
		Greyish brown	(0.5'-2.5'): Greyish brown Clayey Silt, oragne mottling, some sand and gravel (fill), dry, soft, low plasticity, no odor.	ML	
5		Brownish grey	(2.5'-8.0'): Brownish grey Silty Clay with orange and red mottling, trace sand, some rock fragments and organic material, moist, soft, plastic, no odor.	CL	5'-6': 0.1 6'-7': 0.0 7'-8': 0.1 8'-9': 0.0 9'-10': 0.0 10'-11': 0.1
10		Olive grey	(8.0'-10.5'): Olive grey Silty Clay with black mottling, some organic material, moist, soft, medium plasticity, no odor.	CL	
		Greyish brown	(10.5'-12.5'): Greyish brown Silty Clay with some sand and rock fragments, moinst, soft to medium stiffness, medium plasticity, no odor.	CL	
15		Yellowish brown to orange brown	(12.5'-16.0'): Yellowish brown to orange brown Clay with grey mottling, trace silt, dry to moist, stiff, plastic, no odor.	CL	11'-18': 0.0 18'-19': 0.1
		Greyish brown to reddish orange	(16.0'-19.0'): Greyish brown to reddish orange Clay with trace silt, dry, stiff, medium plasticity, no odor. Refusal @ 19 feet.	CL	
20					

Refusal at 19ft.

COMMENTS:

PROJECT NO.: WV-1966
BORING NO.: SB-15

APPENDIX B

LABORATORY ANALYTICAL REPORTS

Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

October 16, 2024

Abdo Chaber
KEMRON ENVIRONMENTAL / POCA
108 Craddock Way, Suite 5
Poca, WV 25159

RE: Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Dear Abdo Chaber:

Enclosed are the analytical results for sample(s) received by the laboratory on July 25, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

Revision 1 - This report replaces the 8/8/204 report. This project was revised on 10/16/2024 to update the sample ID on sample 004.

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

Sincerely,

Bobby Adams
bobby.adams@pacelabs.com
(800)999-0105
Project Manager

Enclosures

cc: Mr. Evan Amick, KEMRON ENVIRONMENTAL / POCA
Ms. Crystal Cain, Kemron Environmental
Ms. Rawa Fleisher, Kemron Environmental
Ms. Terry Fondren, KEMRON ENVIRONMENTAL / POCA
Mr. Chris Hedrick, Kemron Environmental Services
Mr. Chris Jackson, KEMRON ENVIRONMENTAL / POCA
Mr. Alex Sweet, Kemron Environmental
Mr. TERRY WILFONG, KEMRON ENVIRONMENTAL / POCA

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

CERTIFICATIONS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Beaver

225 Industrial Park Road, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE SUMMARY

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30704041001	**GVMC-SS-1(1-2)-01-1001**	Solid	07/22/24 15:10	07/25/24 15:10
30704041002	**GVMC-SB-1(9-10)-01-1002**	Solid	07/22/24 15:15	07/25/24 15:10
30704041003	**GVMC-SS-3(1-2)-01-1003**	Solid	07/23/24 11:30	07/25/24 15:10
30704041004	**GVMC-SS-3(1-2)-02-1004**	Solid	07/23/24 11:30	07/25/24 15:10
30704041005	**GVMC-SB-3(9-10)-01-1005**	Solid	07/23/24 11:45	07/25/24 15:10
30704041006	**GVMC-SB-3(9-10)-02-1006**	Solid	07/23/24 11:45	07/25/24 15:10
30704041007	**GVMC-SS-4(0-1)-01-1007**	Solid	07/23/24 13:30	07/25/24 15:10
30704041008	**GVMC-SB-4(6-7)-01-1008**	Solid	07/23/24 13:45	07/25/24 15:10
30704041009	**GVMC-SS-5(0-1)-01-1009**	Solid	07/23/24 14:30	07/25/24 15:10
30704041010	**GVMC-SB-5(7-8)-01-1010**	Solid	07/23/24 14:40	07/25/24 15:10
30704041011	**GVMC-SS-6(1-2)-01-1011**	Solid	07/23/24 15:15	07/25/24 15:10
30704041012	**GVMC-SB-6(7-8)-01-1012**	Solid	07/23/24 15:30	07/25/24 15:10
30704041013	**GVMC-SS-7(1-2)-01-1013**	Solid	07/24/24 10:10	07/25/24 15:10
30704041014	**GVMC-SB-7(7-8)-01-1014**	Solid	07/24/24 10:20	07/25/24 15:10
30704041015	**GVMC-SS-8(1-2)-01-1015**	Solid	07/24/24 11:00	07/25/24 15:10
30704041016	**GVMC-SB-8(6-7)-01-1016**	Solid	07/24/24 11:10	07/25/24 15:10

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SAMPLE ANALYTE COUNT

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30704041001	**GVMC-SS-1(1-2)-01-1001**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041002	**GVMC-SB-1(9-10)-01-1002**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041003	**GVMC-SS-3(1-2)-01-1003**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041004	**GVMC-SS-3(1-2)-02-1004**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041005	**GVMC-SB-3(9-10)-01-1005**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041006	**GVMC-SB-3(9-10)-02-1006**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041007	**GVMC-SS-4(0-1)-01-1007**	EPA 6010D	MEH	7	PASI-BV

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE ANALYTE COUNT

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041008	**GVMC-SB-4(6-7)-01-1008**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041009	**GVMC-SS-5(0-1)-01-1009**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041010	**GVMC-SB-5(7-8)-01-1010**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041011	**GVMC-SS-6(1-2)-01-1011**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041012	**GVMC-SB-6(7-8)-01-1012**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041013	**GVMC-SS-7(1-2)-01-1013**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE ANALYTE COUNT

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041014	**GVMC-SB-7(7-8)-01-1014**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041015	**GVMC-SS-8(1-2)-01-1015**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA
30704041016	**GVMC-SB-8(6-7)-01-1016**	EPA 6010D	MEH	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	TJW	1	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-1(1-2)-01-1001 **Lab ID: 30704041001** Collected: 07/22/24 15:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**6.4**	mg/kg	5.6	0.39	1	07/29/24 11:40	07/31/24 13:54	7440-38-2	
Barium	**55.3**	mg/kg	5.6	0.41	1	07/29/24 11:40	07/31/24 13:54	7440-39-3	
Cadmium	**0.24J**	mg/kg	1.1	0.16	1	07/29/24 11:40	07/31/24 13:54	7440-43-9	
Chromium	**21.5**	mg/kg	5.6	0.71	1	07/29/24 11:40	07/31/24 13:54	7440-47-3	
Lead	**16.7**	mg/kg	5.6	0.58	1	07/29/24 11:40	07/31/24 13:54	7439-92-1	
Selenium	ND	mg/kg	5.6	1.1	1	07/29/24 11:40	07/31/24 13:54	7782-49-2	
Silver	ND	mg/kg	2.8	0.40	1	07/29/24 11:40	07/31/24 13:54	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.028**	mg/kg	0.022	0.021	1	07/29/24 11:10	07/30/24 11:31	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.5	2.0	1	08/01/24 10:21	08/02/24 14:12	83-32-9	
Acenaphthylene	ND	ug/kg	7.5	1.5	1	08/01/24 10:21	08/02/24 14:12	208-96-8	
Anthracene	ND	ug/kg	7.5	1.5	1	08/01/24 10:21	08/02/24 14:12	120-12-7	
Benzo(a)anthracene	**2.0J**	ug/kg	7.5	2.0	1	08/01/24 10:21	08/02/24 14:12	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.5	3.3	1	08/01/24 10:21	08/02/24 14:12	50-32-8	
Benzo(b)fluoranthene	**4.1J**	ug/kg	7.5	2.1	1	08/01/24 10:21	08/02/24 14:12	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	7.5	1.1	1	08/01/24 10:21	08/02/24 14:12	191-24-2	
Benzo(k)fluoranthene	**3.8J**	ug/kg	7.5	1.3	1	08/01/24 10:21	08/02/24 14:12	207-08-9	lp
Chrysene	**2.1J**	ug/kg	7.5	1.2	1	08/01/24 10:21	08/02/24 14:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.5	1.5	1	08/01/24 10:21	08/02/24 14:12	53-70-3	
Fluoranthene	ND	ug/kg	7.5	5.0	1	08/01/24 10:21	08/02/24 14:12	206-44-0	
Fluorene	ND	ug/kg	14.9	7.7	1	08/01/24 10:21	08/02/24 14:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.5	2.9	1	08/01/24 10:21	08/02/24 14:12	193-39-5	
Naphthalene	ND	ug/kg	7.5	3.2	1	08/01/24 10:21	08/02/24 14:12	91-20-3	
Phenanthrene	ND	ug/kg	14.9	4.5	1	08/01/24 10:21	08/02/24 14:12	85-01-8	
Pyrene	ND	ug/kg	7.5	6.6	1	08/01/24 10:21	08/02/24 14:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	71	%.	46-99		1	08/01/24 10:21	08/02/24 14:12	321-60-8	
Terphenyl-d14 (S)	90	%.	48-118		1	08/01/24 10:21	08/02/24 14:12	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	374	55.6	1	07/31/24 09:16	08/01/24 13:49	83-32-9	
Acenaphthylene	ND	ug/kg	374	112	1	07/31/24 09:16	08/01/24 13:49	208-96-8	
Anthracene	ND	ug/kg	374	86.0	1	07/31/24 09:16	08/01/24 13:49	120-12-7	
Azobenzene	ND	ug/kg	374	132	1	07/31/24 09:16	08/01/24 13:49	103-33-3	
Benzo(a)anthracene	ND	ug/kg	374	64.8	1	07/31/24 09:16	08/01/24 13:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	374	116	1	07/31/24 09:16	08/01/24 13:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	374	114	1	07/31/24 09:16	08/01/24 13:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	374	130	1	07/31/24 09:16	08/01/24 13:49	191-24-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-1(1-2)-01-1001 **Lab ID: 30704041001** Collected: 07/22/24 15:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	374	165	1	07/31/24 09:16	08/01/24 13:49	207-08-9	
Benzoic acid	ND	ug/kg	5610	1900	1	07/31/24 09:16	08/01/24 13:49	65-85-0	
Benzyl alcohol	ND	ug/kg	374	331	1	07/31/24 09:16	08/01/24 13:49	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	374	138	1	07/31/24 09:16	08/01/24 13:49	101-55-3	
Butylbenzylphthalate	ND	ug/kg	374	105	1	07/31/24 09:16	08/01/24 13:49	85-68-7	
Carbazole	ND	ug/kg	374	147	1	07/31/24 09:16	08/01/24 13:49	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	374	60.2	1	07/31/24 09:16	08/01/24 13:49	59-50-7	
4-Chloroaniline	ND	ug/kg	374	65.9	1	07/31/24 09:16	08/01/24 13:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	374	65.1	1	07/31/24 09:16	08/01/24 13:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	374	68.3	1	07/31/24 09:16	08/01/24 13:49	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	374	106	1	07/31/24 09:16	08/01/24 13:49	108-60-1	
2-Chloronaphthalene	ND	ug/kg	374	107	1	07/31/24 09:16	08/01/24 13:49	91-58-7	
2-Chlorophenol	ND	ug/kg	374	53.4	1	07/31/24 09:16	08/01/24 13:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	374	108	1	07/31/24 09:16	08/01/24 13:49	7005-72-3	
Chrysene	ND	ug/kg	374	55.5	1	07/31/24 09:16	08/01/24 13:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	374	142	1	07/31/24 09:16	08/01/24 13:49	53-70-3	
Dibenzofuran	ND	ug/kg	374	120	1	07/31/24 09:16	08/01/24 13:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	374	49.2	1	07/31/24 09:16	08/01/24 13:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	374	46.6	1	07/31/24 09:16	08/01/24 13:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	374	51.7	1	07/31/24 09:16	08/01/24 13:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	374	110	1	07/31/24 09:16	08/01/24 13:49	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	374	63.6	1	07/31/24 09:16	08/01/24 13:49	120-83-2	
Diethylphthalate	ND	ug/kg	374	132	1	07/31/24 09:16	08/01/24 13:49	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	374	114	1	07/31/24 09:16	08/01/24 13:49	105-67-9	
Dimethylphthalate	ND	ug/kg	374	115	1	07/31/24 09:16	08/01/24 13:49	131-11-3	
Di-n-butylphthalate	ND	ug/kg	2990	2740	1	07/31/24 09:16	08/01/24 13:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	936	279	1	07/31/24 09:16	08/01/24 13:49	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	936	842	1	07/31/24 09:16	08/01/24 13:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	374	114	1	07/31/24 09:16	08/01/24 13:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	374	114	1	07/31/24 09:16	08/01/24 13:49	606-20-2	
Di-n-octylphthalate	ND	ug/kg	374	246	1	07/31/24 09:16	08/01/24 13:49	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	374	119	1	07/31/24 09:16	08/01/24 13:49	117-81-7	
Fluoranthene	ND	ug/kg	374	120	1	07/31/24 09:16	08/01/24 13:49	206-44-0	
Fluorene	ND	ug/kg	374	115	1	07/31/24 09:16	08/01/24 13:49	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	374	58.7	1	07/31/24 09:16	08/01/24 13:49	87-68-3	
Hexachlorobenzene	ND	ug/kg	374	108	1	07/31/24 09:16	08/01/24 13:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	374	180	1	07/31/24 09:16	08/01/24 13:49	77-47-4	L2
Hexachloroethane	ND	ug/kg	374	101	1	07/31/24 09:16	08/01/24 13:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	374	141	1	07/31/24 09:16	08/01/24 13:49	193-39-5	
Isophorone	ND	ug/kg	374	54.0	1	07/31/24 09:16	08/01/24 13:49	78-59-1	
1-Methylnaphthalene	ND	ug/kg	374	94.1	1	07/31/24 09:16	08/01/24 13:49	90-12-0	
2-Methylnaphthalene	ND	ug/kg	374	54.8	1	07/31/24 09:16	08/01/24 13:49	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	374	135	1	07/31/24 09:16	08/01/24 13:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	749	230	1	07/31/24 09:16	08/01/24 13:49		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-1(1-2)-01-1001 **Lab ID: 30704041001** Collected: 07/22/24 15:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	936	130	1	07/31/24 09:16	08/01/24 13:49	88-74-4	
3-Nitroaniline	ND	ug/kg	936	244	1	07/31/24 09:16	08/01/24 13:49	99-09-2	
4-Nitroaniline	ND	ug/kg	936	525	1	07/31/24 09:16	08/01/24 13:49	100-01-6	CH
Nitrobenzene	ND	ug/kg	374	53.8	1	07/31/24 09:16	08/01/24 13:49	98-95-3	
2-Nitrophenol	ND	ug/kg	374	70.1	1	07/31/24 09:16	08/01/24 13:49	88-75-5	
4-Nitrophenol	ND	ug/kg	374	126	1	07/31/24 09:16	08/01/24 13:49	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	374	64.2	1	07/31/24 09:16	08/01/24 13:49	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	374	65.9	1	07/31/24 09:16	08/01/24 13:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	374	84.4	1	07/31/24 09:16	08/01/24 13:49	86-30-6	
Pentachlorophenol	ND	ug/kg	936	493	1	07/31/24 09:16	08/01/24 13:49	87-86-5	
Phenanthrene	ND	ug/kg	374	67.9	1	07/31/24 09:16	08/01/24 13:49	85-01-8	
Phenol	ND	ug/kg	374	111	1	07/31/24 09:16	08/01/24 13:49	108-95-2	
Pyrene	ND	ug/kg	374	137	1	07/31/24 09:16	08/01/24 13:49	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	374	101	1	07/31/24 09:16	08/01/24 13:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	936	111	1	07/31/24 09:16	08/01/24 13:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	374	97.8	1	07/31/24 09:16	08/01/24 13:49	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	87	%.	32-154		1	07/31/24 09:16	08/01/24 13:49	4165-60-0	
2-Fluorobiphenyl (S)	88	%.	50-144		1	07/31/24 09:16	08/01/24 13:49	321-60-8	
Terphenyl-d14 (S)	103	%.	57-146		1	07/31/24 09:16	08/01/24 13:49	1718-51-0	
Phenol-d6 (S)	90	%.	54-121		1	07/31/24 09:16	08/01/24 13:49	13127-88-3	
2-Fluorophenol (S)	90	%.	57-124		1	07/31/24 09:16	08/01/24 13:49	367-12-4	
2,4,6-Tribromophenol (S)	91	%.	44-127		1	07/31/24 09:16	08/01/24 13:49	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**114**	ug/kg	55.1	37.1	1	07/30/24 12:18	07/30/24 12:19	67-64-1	CL
Benzene	ND	ug/kg	5.5	0.96	1	07/30/24 12:18	07/30/24 12:19	71-43-2	
Bromochloromethane	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 12:19	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 12:19	75-27-4	
Bromoform	ND	ug/kg	5.5	2.2	1	07/30/24 12:18	07/30/24 12:19	75-25-2	
Bromomethane	ND	ug/kg	5.5	2.1	1	07/30/24 12:18	07/30/24 12:19	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	33.1	6.7	1	07/30/24 12:18	07/30/24 12:19		LS
2-Butanone (MEK)	**12.4**	ug/kg	11.0	2.9	1	07/30/24 12:18	07/30/24 12:19	78-93-3	
Carbon disulfide	ND	ug/kg	5.5	1.6	1	07/30/24 12:18	07/30/24 12:19	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1.9	1	07/30/24 12:18	07/30/24 12:19	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	0.86	1	07/30/24 12:18	07/30/24 12:19	108-90-7	
Chloroethane	ND	ug/kg	5.5	2.3	1	07/30/24 12:18	07/30/24 12:19	75-00-3	
Chloroform	ND	ug/kg	5.5	1.7	1	07/30/24 12:18	07/30/24 12:19	67-66-3	
Chloromethane	ND	ug/kg	5.5	1.9	1	07/30/24 12:18	07/30/24 12:19	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.5	0.87	1	07/30/24 12:18	07/30/24 12:19	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.5	0.65	1	07/30/24 12:18	07/30/24 12:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	0.72	1	07/30/24 12:18	07/30/24 12:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	0.78	1	07/30/24 12:18	07/30/24 12:19	106-46-7	

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-1(1-2)-01-1001 **Lab ID: 30704041001** Collected: 07/22/24 15:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.5	1.4	1	07/30/24 12:18	07/30/24 12:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1.4	1	07/30/24 12:18	07/30/24 12:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.0	2.7	1	07/30/24 12:18	07/30/24 12:19	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.5	2.1	1	07/30/24 12:18	07/30/24 12:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1.3	1	07/30/24 12:18	07/30/24 12:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1.4	1	07/30/24 12:18	07/30/24 12:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	0.79	1	07/30/24 12:18	07/30/24 12:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	0.55	1	07/30/24 12:18	07/30/24 12:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1.1	1	07/30/24 12:18	07/30/24 12:19	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 12:19	100-41-4	
2-Hexanone	**9.2J**	ug/kg	11.0	2.6	1	07/30/24 12:18	07/30/24 12:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1.3	1	07/30/24 12:18	07/30/24 12:19	98-82-8	
Methylene Chloride	ND	ug/kg	5.5	4.6	1	07/30/24 12:18	07/30/24 12:19	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.0	1.2	1	07/30/24 12:18	07/30/24 12:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	0.74	1	07/30/24 12:18	07/30/24 12:19	1634-04-4	
Naphthalene	ND	ug/kg	5.5	4.4	1	07/30/24 12:18	07/30/24 12:19	91-20-3	
Styrene	ND	ug/kg	5.5	1.6	1	07/30/24 12:18	07/30/24 12:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	0.65	1	07/30/24 12:18	07/30/24 12:19	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1.9	1	07/30/24 12:18	07/30/24 12:19	127-18-4	
Toluene	ND	ug/kg	5.5	1.1	1	07/30/24 12:18	07/30/24 12:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	2.2	1	07/30/24 12:18	07/30/24 12:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1.7	1	07/30/24 12:18	07/30/24 12:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1.1	1	07/30/24 12:18	07/30/24 12:19	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1.6	1	07/30/24 12:18	07/30/24 12:19	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	2.7	1	07/30/24 12:18	07/30/24 12:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	2.2	1	07/30/24 12:18	07/30/24 12:19	108-67-8	
Vinyl chloride	ND	ug/kg	5.5	2.3	1	07/30/24 12:18	07/30/24 12:19	75-01-4	
Xylene (Total)	ND	ug/kg	16.5	7.5	1	07/30/24 12:18	07/30/24 12:19	1330-20-7	LS
m&p-Xylene	ND	ug/kg	11.0	6.3	1	07/30/24 12:18	07/30/24 12:19	179601-23-1	L2
o-Xylene	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 12:19	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 12:19	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	07/30/24 12:18	07/30/24 12:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1	07/30/24 12:18	07/30/24 12:19	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	07/30/24 12:18	07/30/24 12:19	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**11.4**	%	0.10	0.10	1		07/30/24 12:46		H1

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-1(9-10)-01-1002 **Lab ID: 30704041002** Collected: 07/22/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**3.9J**	mg/kg	6.3	0.43	1	07/29/24 11:40	07/31/24 13:56	7440-38-2	
Barium	**30.1**	mg/kg	6.3	0.46	1	07/29/24 11:40	07/31/24 13:56	7440-39-3	
Cadmium	**0.25J**	mg/kg	1.3	0.18	1	07/29/24 11:40	07/31/24 13:56	7440-43-9	
Chromium	**16.8**	mg/kg	6.3	0.79	1	07/29/24 11:40	07/31/24 13:56	7440-47-3	
Lead	**8.9**	mg/kg	6.3	0.64	1	07/29/24 11:40	07/31/24 13:56	7439-92-1	
Selenium	ND	mg/kg	6.3	1.3	1	07/29/24 11:40	07/31/24 13:56	7782-49-2	
Silver	ND	mg/kg	3.1	0.45	1	07/29/24 11:40	07/31/24 13:56	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	ND	mg/kg	0.026	0.025	1	07/29/24 11:10	07/30/24 11:34	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.6	2.3	1	08/01/24 10:21	08/02/24 14:32	83-32-9	
Acenaphthylene	ND	ug/kg	8.6	1.8	1	08/01/24 10:21	08/02/24 14:32	208-96-8	
Anthracene	**2.4J**	ug/kg	8.6	1.7	1	08/01/24 10:21	08/02/24 14:32	120-12-7	
Benzo(a)anthracene	**6.6J**	ug/kg	8.6	2.3	1	08/01/24 10:21	08/02/24 14:32	56-55-3	
Benzo(a)pyrene	**5.9J**	ug/kg	8.6	3.7	1	08/01/24 10:21	08/02/24 14:32	50-32-8	
Benzo(b)fluoranthene	**9.7**	ug/kg	8.6	2.4	1	08/01/24 10:21	08/02/24 14:32	205-99-2	lp
Benzo(g,h,i)perylene	**2.4J**	ug/kg	8.6	1.3	1	08/01/24 10:21	08/02/24 14:32	191-24-2	
Benzo(k)fluoranthene	**9.1**	ug/kg	8.6	1.4	1	08/01/24 10:21	08/02/24 14:32	207-08-9	lp
Chrysene	**5.6J**	ug/kg	8.6	1.3	1	08/01/24 10:21	08/02/24 14:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.6	1.7	1	08/01/24 10:21	08/02/24 14:32	53-70-3	
Fluoranthene	**10.9**	ug/kg	8.6	5.7	1	08/01/24 10:21	08/02/24 14:32	206-44-0	
Fluorene	ND	ug/kg	17.1	8.8	1	08/01/24 10:21	08/02/24 14:32	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.6	3.3	1	08/01/24 10:21	08/02/24 14:32	193-39-5	
Naphthalene	ND	ug/kg	8.6	3.7	1	08/01/24 10:21	08/02/24 14:32	91-20-3	
Phenanthrene	**7.7J**	ug/kg	17.1	5.1	1	08/01/24 10:21	08/02/24 14:32	85-01-8	
Pyrene	**9.1**	ug/kg	8.6	7.5	1	08/01/24 10:21	08/02/24 14:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%.	46-99		1	08/01/24 10:21	08/02/24 14:32	321-60-8	
Terphenyl-d14 (S)	90	%.	48-118		1	08/01/24 10:21	08/02/24 14:32	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	427	63.4	1	07/31/24 09:16	08/01/24 14:11	83-32-9	
Acenaphthylene	ND	ug/kg	427	128	1	07/31/24 09:16	08/01/24 14:11	208-96-8	
Anthracene	ND	ug/kg	427	98.1	1	07/31/24 09:16	08/01/24 14:11	120-12-7	
Azobenzene	ND	ug/kg	427	151	1	07/31/24 09:16	08/01/24 14:11	103-33-3	
Benzo(a)anthracene	ND	ug/kg	427	74.0	1	07/31/24 09:16	08/01/24 14:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	427	133	1	07/31/24 09:16	08/01/24 14:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	427	130	1	07/31/24 09:16	08/01/24 14:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	427	148	1	07/31/24 09:16	08/01/24 14:11	191-24-2	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-1(9-10)-01-1002 **Lab ID: 30704041002** Collected: 07/22/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	427	189	1	07/31/24 09:16	08/01/24 14:11	207-08-9	
Benzoic acid	ND	ug/kg	6410	2160	1	07/31/24 09:16	08/01/24 14:11	65-85-0	
Benzyl alcohol	ND	ug/kg	427	378	1	07/31/24 09:16	08/01/24 14:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	427	157	1	07/31/24 09:16	08/01/24 14:11	101-55-3	
Butylbenzylphthalate	ND	ug/kg	427	120	1	07/31/24 09:16	08/01/24 14:11	85-68-7	
Carbazole	ND	ug/kg	427	168	1	07/31/24 09:16	08/01/24 14:11	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	427	68.7	1	07/31/24 09:16	08/01/24 14:11	59-50-7	
4-Chloroaniline	ND	ug/kg	427	75.2	1	07/31/24 09:16	08/01/24 14:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	427	74.3	1	07/31/24 09:16	08/01/24 14:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	427	78.0	1	07/31/24 09:16	08/01/24 14:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	427	121	1	07/31/24 09:16	08/01/24 14:11	108-60-1	
2-Chloronaphthalene	ND	ug/kg	427	122	1	07/31/24 09:16	08/01/24 14:11	91-58-7	
2-Chlorophenol	ND	ug/kg	427	60.9	1	07/31/24 09:16	08/01/24 14:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	427	124	1	07/31/24 09:16	08/01/24 14:11	7005-72-3	
Chrysene	ND	ug/kg	427	63.3	1	07/31/24 09:16	08/01/24 14:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	427	162	1	07/31/24 09:16	08/01/24 14:11	53-70-3	
Dibenzofuran	ND	ug/kg	427	137	1	07/31/24 09:16	08/01/24 14:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	427	56.1	1	07/31/24 09:16	08/01/24 14:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	427	53.1	1	07/31/24 09:16	08/01/24 14:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	427	59.0	1	07/31/24 09:16	08/01/24 14:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	427	125	1	07/31/24 09:16	08/01/24 14:11	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	427	72.5	1	07/31/24 09:16	08/01/24 14:11	120-83-2	
Diethylphthalate	ND	ug/kg	427	150	1	07/31/24 09:16	08/01/24 14:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	427	130	1	07/31/24 09:16	08/01/24 14:11	105-67-9	
Dimethylphthalate	ND	ug/kg	427	132	1	07/31/24 09:16	08/01/24 14:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3420	3120	1	07/31/24 09:16	08/01/24 14:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	318	1	07/31/24 09:16	08/01/24 14:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	960	1	07/31/24 09:16	08/01/24 14:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	427	130	1	07/31/24 09:16	08/01/24 14:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	427	130	1	07/31/24 09:16	08/01/24 14:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	427	281	1	07/31/24 09:16	08/01/24 14:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	427	136	1	07/31/24 09:16	08/01/24 14:11	117-81-7	
Fluoranthene	ND	ug/kg	427	137	1	07/31/24 09:16	08/01/24 14:11	206-44-0	
Fluorene	ND	ug/kg	427	131	1	07/31/24 09:16	08/01/24 14:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	427	67.0	1	07/31/24 09:16	08/01/24 14:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	427	123	1	07/31/24 09:16	08/01/24 14:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	427	206	1	07/31/24 09:16	08/01/24 14:11	77-47-4	L2
Hexachloroethane	ND	ug/kg	427	115	1	07/31/24 09:16	08/01/24 14:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	427	161	1	07/31/24 09:16	08/01/24 14:11	193-39-5	
Isophorone	ND	ug/kg	427	61.7	1	07/31/24 09:16	08/01/24 14:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	427	107	1	07/31/24 09:16	08/01/24 14:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	427	62.5	1	07/31/24 09:16	08/01/24 14:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	427	154	1	07/31/24 09:16	08/01/24 14:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	854	262	1	07/31/24 09:16	08/01/24 14:11		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-1(9-10)-01-1002 **Lab ID: 30704041002** Collected: 07/22/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1070	148	1	07/31/24 09:16	08/01/24 14:11	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	279	1	07/31/24 09:16	08/01/24 14:11	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	600	1	07/31/24 09:16	08/01/24 14:11	100-01-6	CH
Nitrobenzene	ND	ug/kg	427	61.3	1	07/31/24 09:16	08/01/24 14:11	98-95-3	
2-Nitrophenol	ND	ug/kg	427	80.0	1	07/31/24 09:16	08/01/24 14:11	88-75-5	
4-Nitrophenol	ND	ug/kg	427	144	1	07/31/24 09:16	08/01/24 14:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	427	73.2	1	07/31/24 09:16	08/01/24 14:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	427	75.2	1	07/31/24 09:16	08/01/24 14:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	427	96.3	1	07/31/24 09:16	08/01/24 14:11	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	563	1	07/31/24 09:16	08/01/24 14:11	87-86-5	
Phenanthrene	ND	ug/kg	427	77.5	1	07/31/24 09:16	08/01/24 14:11	85-01-8	
Phenol	ND	ug/kg	427	127	1	07/31/24 09:16	08/01/24 14:11	108-95-2	
Pyrene	ND	ug/kg	427	156	1	07/31/24 09:16	08/01/24 14:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	427	116	1	07/31/24 09:16	08/01/24 14:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	126	1	07/31/24 09:16	08/01/24 14:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	427	112	1	07/31/24 09:16	08/01/24 14:11	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	32-154		1	07/31/24 09:16	08/01/24 14:11	4165-60-0	
2-Fluorobiphenyl (S)	84	%.	50-144		1	07/31/24 09:16	08/01/24 14:11	321-60-8	
Terphenyl-d14 (S)	98	%.	57-146		1	07/31/24 09:16	08/01/24 14:11	1718-51-0	
Phenol-d6 (S)	86	%.	54-121		1	07/31/24 09:16	08/01/24 14:11	13127-88-3	
2-Fluorophenol (S)	85	%.	57-124		1	07/31/24 09:16	08/01/24 14:11	367-12-4	
2,4,6-Tribromophenol (S)	84	%.	44-127		1	07/31/24 09:16	08/01/24 14:11	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	46.5	31.3	1	07/30/24 12:18	07/30/24 12:46	67-64-1	CL
Benzene	ND	ug/kg	4.7	0.81	1	07/30/24 12:18	07/30/24 12:46	71-43-2	
Bromochloromethane	ND	ug/kg	4.7	1.0	1	07/30/24 12:18	07/30/24 12:46	74-97-5	
Bromodichloromethane	ND	ug/kg	4.7	1.0	1	07/30/24 12:18	07/30/24 12:46	75-27-4	
Bromoform	ND	ug/kg	4.7	1.9	1	07/30/24 12:18	07/30/24 12:46	75-25-2	
Bromomethane	ND	ug/kg	4.7	1.7	1	07/30/24 12:18	07/30/24 12:46	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	27.9	5.7	1	07/30/24 12:18	07/30/24 12:46		LS
2-Butanone (MEK)	**3.3J**	ug/kg	9.3	2.4	1	07/30/24 12:18	07/30/24 12:46	78-93-3	
Carbon disulfide	ND	ug/kg	4.7	1.3	1	07/30/24 12:18	07/30/24 12:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.7	1.6	1	07/30/24 12:18	07/30/24 12:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.7	0.73	1	07/30/24 12:18	07/30/24 12:46	108-90-7	
Chloroethane	ND	ug/kg	4.7	1.9	1	07/30/24 12:18	07/30/24 12:46	75-00-3	
Chloroform	ND	ug/kg	4.7	1.4	1	07/30/24 12:18	07/30/24 12:46	67-66-3	
Chloromethane	ND	ug/kg	4.7	1.6	1	07/30/24 12:18	07/30/24 12:46	74-87-3	CL
Dibromochloromethane	ND	ug/kg	4.7	0.74	1	07/30/24 12:18	07/30/24 12:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.7	0.55	1	07/30/24 12:18	07/30/24 12:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.7	0.61	1	07/30/24 12:18	07/30/24 12:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.7	0.66	1	07/30/24 12:18	07/30/24 12:46	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-1(9-10)-01-1002 **Lab ID: 30704041002** Collected: 07/22/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.7	1.2	1	07/30/24 12:18	07/30/24 12:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.7	1.2	1	07/30/24 12:18	07/30/24 12:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	9.3	2.3	1	07/30/24 12:18	07/30/24 12:46	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.7	1.7	1	07/30/24 12:18	07/30/24 12:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1.1	1	07/30/24 12:18	07/30/24 12:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1.2	1	07/30/24 12:18	07/30/24 12:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.7	0.67	1	07/30/24 12:18	07/30/24 12:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.7	0.47	1	07/30/24 12:18	07/30/24 12:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.7	0.97	1	07/30/24 12:18	07/30/24 12:46	10061-02-6	
Ethylbenzene	ND	ug/kg	4.7	1.0	1	07/30/24 12:18	07/30/24 12:46	100-41-4	
2-Hexanone	**2.4J**	ug/kg	9.3	2.2	1	07/30/24 12:18	07/30/24 12:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1.1	1	07/30/24 12:18	07/30/24 12:46	98-82-8	
Methylene Chloride	ND	ug/kg	4.7	3.9	1	07/30/24 12:18	07/30/24 12:46	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.3	1.0	1	07/30/24 12:18	07/30/24 12:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.7	0.62	1	07/30/24 12:18	07/30/24 12:46	1634-04-4	
Naphthalene	ND	ug/kg	4.7	3.7	1	07/30/24 12:18	07/30/24 12:46	91-20-3	
Styrene	ND	ug/kg	4.7	1.3	1	07/30/24 12:18	07/30/24 12:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	0.55	1	07/30/24 12:18	07/30/24 12:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.7	1.6	1	07/30/24 12:18	07/30/24 12:46	127-18-4	
Toluene	ND	ug/kg	4.7	0.92	1	07/30/24 12:18	07/30/24 12:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1.8	1	07/30/24 12:18	07/30/24 12:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.7	1.4	1	07/30/24 12:18	07/30/24 12:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.7	0.92	1	07/30/24 12:18	07/30/24 12:46	79-00-5	
Trichloroethene	ND	ug/kg	4.7	1.4	1	07/30/24 12:18	07/30/24 12:46	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	2.3	1	07/30/24 12:18	07/30/24 12:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1.9	1	07/30/24 12:18	07/30/24 12:46	108-67-8	
Vinyl chloride	ND	ug/kg	4.7	2.0	1	07/30/24 12:18	07/30/24 12:46	75-01-4	
Xylene (Total)	ND	ug/kg	14.0	6.4	1	07/30/24 12:18	07/30/24 12:46	1330-20-7	LS
m&p-Xylene	ND	ug/kg	9.3	5.4	1	07/30/24 12:18	07/30/24 12:46	179601-23-1	L2
o-Xylene	ND	ug/kg	4.7	1.0	1	07/30/24 12:18	07/30/24 12:46	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	07/30/24 12:18	07/30/24 12:46	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 12:46	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1	07/30/24 12:18	07/30/24 12:46	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	07/30/24 12:18	07/30/24 12:46	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**22.5**	%	0.10	0.10	1		07/30/24 12:46		H1

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-01-1003 **Lab ID: 30704041003** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**8.5**	mg/kg	6.2	0.43	1	07/29/24 11:40	07/31/24 13:58	7440-38-2	
Barium	**114**	mg/kg	6.2	0.45	1	07/29/24 11:40	07/31/24 13:58	7440-39-3	
Cadmium	**0.26J**	mg/kg	1.2	0.17	1	07/29/24 11:40	07/31/24 13:58	7440-43-9	
Chromium	**39.3**	mg/kg	6.2	0.78	1	07/29/24 11:40	07/31/24 13:58	7440-47-3	
Lead	**19.7**	mg/kg	6.2	0.64	1	07/29/24 11:40	07/31/24 13:58	7439-92-1	
Selenium	ND	mg/kg	6.2	1.2	1	07/29/24 11:40	07/31/24 13:58	7782-49-2	
Silver	ND	mg/kg	3.1	0.44	1	07/29/24 11:40	07/31/24 13:58	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.032**	mg/kg	0.025	0.024	1	07/29/24 11:10	07/30/24 11:36	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.4	2.2	1	08/01/24 10:21	08/02/24 14:51	83-32-9	ML
Acenaphthylene	ND	ug/kg	8.4	1.7	1	08/01/24 10:21	08/02/24 14:51	208-96-8	ML
Anthracene	ND	ug/kg	8.4	1.7	1	08/01/24 10:21	08/02/24 14:51	120-12-7	ML
Benzo(a)anthracene	ND	ug/kg	8.4	2.2	1	08/01/24 10:21	08/02/24 14:51	56-55-3	ML
Benzo(a)pyrene	ND	ug/kg	8.4	3.7	1	08/01/24 10:21	08/02/24 14:51	50-32-8	ML
Benzo(b)fluoranthene	ND	ug/kg	8.4	2.4	1	08/01/24 10:21	08/02/24 14:51	205-99-2	ML
Benzo(g,h,i)perylene	ND	ug/kg	8.4	1.3	1	08/01/24 10:21	08/02/24 14:51	191-24-2	ML
Benzo(k)fluoranthene	ND	ug/kg	8.4	1.4	1	08/01/24 10:21	08/02/24 14:51	207-08-9	ML
Chrysene	ND	ug/kg	8.4	1.3	1	08/01/24 10:21	08/02/24 14:51	218-01-9	ML
Dibenz(a,h)anthracene	ND	ug/kg	8.4	1.6	1	08/01/24 10:21	08/02/24 14:51	53-70-3	ML
Fluoranthene	ND	ug/kg	8.4	5.6	1	08/01/24 10:21	08/02/24 14:51	206-44-0	ML
Fluorene	ND	ug/kg	16.7	8.6	1	08/01/24 10:21	08/02/24 14:51	86-73-7	ML
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.4	3.2	1	08/01/24 10:21	08/02/24 14:51	193-39-5	ML
Naphthalene	ND	ug/kg	8.4	3.6	1	08/01/24 10:21	08/02/24 14:51	91-20-3	ML
Phenanthrene	ND	ug/kg	16.7	5.0	1	08/01/24 10:21	08/02/24 14:51	85-01-8	ML
Pyrene	ND	ug/kg	8.4	7.4	1	08/01/24 10:21	08/02/24 14:51	129-00-0	ML
Surrogates									
2-Fluorobiphenyl (S)	69	%.	46-99		1	08/01/24 10:21	08/02/24 14:51	321-60-8	
Terphenyl-d14 (S)	86	%.	48-118		1	08/01/24 10:21	08/02/24 14:51	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	419	62.2	1	07/31/24 09:16	08/01/24 14:33	83-32-9	
Acenaphthylene	ND	ug/kg	419	126	1	07/31/24 09:16	08/01/24 14:33	208-96-8	
Anthracene	ND	ug/kg	419	96.2	1	07/31/24 09:16	08/01/24 14:33	120-12-7	
Azobenzene	ND	ug/kg	419	148	1	07/31/24 09:16	08/01/24 14:33	103-33-3	
Benzo(a)anthracene	ND	ug/kg	419	72.5	1	07/31/24 09:16	08/01/24 14:33	56-55-3	
Benzo(a)pyrene	ND	ug/kg	419	130	1	07/31/24 09:16	08/01/24 14:33	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	419	127	1	07/31/24 09:16	08/01/24 14:33	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	419	145	1	07/31/24 09:16	08/01/24 14:33	191-24-2	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-01-1003 **Lab ID: 30704041003** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	419	185	1	07/31/24 09:16	08/01/24 14:33	207-08-9	
Benzoic acid	ND	ug/kg	6280	2120	1	07/31/24 09:16	08/01/24 14:33	65-85-0	
Benzyl alcohol	ND	ug/kg	419	370	1	07/31/24 09:16	08/01/24 14:33	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	419	154	1	07/31/24 09:16	08/01/24 14:33	101-55-3	
Butylbenzylphthalate	ND	ug/kg	419	118	1	07/31/24 09:16	08/01/24 14:33	85-68-7	
Carbazole	ND	ug/kg	419	165	1	07/31/24 09:16	08/01/24 14:33	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	419	67.4	1	07/31/24 09:16	08/01/24 14:33	59-50-7	
4-Chloroaniline	ND	ug/kg	419	73.7	1	07/31/24 09:16	08/01/24 14:33	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	419	72.8	1	07/31/24 09:16	08/01/24 14:33	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	419	76.5	1	07/31/24 09:16	08/01/24 14:33	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	419	119	1	07/31/24 09:16	08/01/24 14:33	108-60-1	
2-Chloronaphthalene	ND	ug/kg	419	120	1	07/31/24 09:16	08/01/24 14:33	91-58-7	
2-Chlorophenol	ND	ug/kg	419	59.7	1	07/31/24 09:16	08/01/24 14:33	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	419	121	1	07/31/24 09:16	08/01/24 14:33	7005-72-3	
Chrysene	ND	ug/kg	419	62.1	1	07/31/24 09:16	08/01/24 14:33	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	419	159	1	07/31/24 09:16	08/01/24 14:33	53-70-3	
Dibenzofuran	ND	ug/kg	419	134	1	07/31/24 09:16	08/01/24 14:33	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	419	55.0	1	07/31/24 09:16	08/01/24 14:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	419	52.1	1	07/31/24 09:16	08/01/24 14:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	419	57.9	1	07/31/24 09:16	08/01/24 14:33	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	419	123	1	07/31/24 09:16	08/01/24 14:33	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	419	71.1	1	07/31/24 09:16	08/01/24 14:33	120-83-2	
Diethylphthalate	ND	ug/kg	419	148	1	07/31/24 09:16	08/01/24 14:33	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	419	127	1	07/31/24 09:16	08/01/24 14:33	105-67-9	
Dimethylphthalate	ND	ug/kg	419	129	1	07/31/24 09:16	08/01/24 14:33	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3350	3060	1	07/31/24 09:16	08/01/24 14:33	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1050	312	1	07/31/24 09:16	08/01/24 14:33	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1050	942	1	07/31/24 09:16	08/01/24 14:33	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	419	127	1	07/31/24 09:16	08/01/24 14:33	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	419	127	1	07/31/24 09:16	08/01/24 14:33	606-20-2	
Di-n-octylphthalate	ND	ug/kg	419	276	1	07/31/24 09:16	08/01/24 14:33	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	419	134	1	07/31/24 09:16	08/01/24 14:33	117-81-7	
Fluoranthene	ND	ug/kg	419	135	1	07/31/24 09:16	08/01/24 14:33	206-44-0	
Fluorene	ND	ug/kg	419	128	1	07/31/24 09:16	08/01/24 14:33	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	419	65.7	1	07/31/24 09:16	08/01/24 14:33	87-68-3	
Hexachlorobenzene	ND	ug/kg	419	120	1	07/31/24 09:16	08/01/24 14:33	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	419	202	1	07/31/24 09:16	08/01/24 14:33	77-47-4	L2
Hexachloroethane	ND	ug/kg	419	113	1	07/31/24 09:16	08/01/24 14:33	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	419	158	1	07/31/24 09:16	08/01/24 14:33	193-39-5	
Isophorone	ND	ug/kg	419	60.5	1	07/31/24 09:16	08/01/24 14:33	78-59-1	
1-Methylnaphthalene	ND	ug/kg	419	105	1	07/31/24 09:16	08/01/24 14:33	90-12-0	
2-Methylnaphthalene	ND	ug/kg	419	61.3	1	07/31/24 09:16	08/01/24 14:33	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	419	151	1	07/31/24 09:16	08/01/24 14:33	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	838	257	1	07/31/24 09:16	08/01/24 14:33		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-01-1003 **Lab ID: 30704041003** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1050	146	1	07/31/24 09:16	08/01/24 14:33	88-74-4	
3-Nitroaniline	ND	ug/kg	1050	273	1	07/31/24 09:16	08/01/24 14:33	99-09-2	
4-Nitroaniline	ND	ug/kg	1050	588	1	07/31/24 09:16	08/01/24 14:33	100-01-6	CH
Nitrobenzene	ND	ug/kg	419	60.2	1	07/31/24 09:16	08/01/24 14:33	98-95-3	
2-Nitrophenol	ND	ug/kg	419	78.5	1	07/31/24 09:16	08/01/24 14:33	88-75-5	
4-Nitrophenol	ND	ug/kg	419	141	1	07/31/24 09:16	08/01/24 14:33	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	419	71.8	1	07/31/24 09:16	08/01/24 14:33	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	419	73.7	1	07/31/24 09:16	08/01/24 14:33	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	419	94.5	1	07/31/24 09:16	08/01/24 14:33	86-30-6	
Pentachlorophenol	ND	ug/kg	1050	552	1	07/31/24 09:16	08/01/24 14:33	87-86-5	
Phenanthrene	ND	ug/kg	419	76.0	1	07/31/24 09:16	08/01/24 14:33	85-01-8	
Phenol	ND	ug/kg	419	124	1	07/31/24 09:16	08/01/24 14:33	108-95-2	
Pyrene	ND	ug/kg	419	153	1	07/31/24 09:16	08/01/24 14:33	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	419	113	1	07/31/24 09:16	08/01/24 14:33	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1050	124	1	07/31/24 09:16	08/01/24 14:33	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	419	109	1	07/31/24 09:16	08/01/24 14:33	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	84	%.	32-154		1	07/31/24 09:16	08/01/24 14:33	4165-60-0	
2-Fluorobiphenyl (S)	84	%.	50-144		1	07/31/24 09:16	08/01/24 14:33	321-60-8	
Terphenyl-d14 (S)	95	%.	57-146		1	07/31/24 09:16	08/01/24 14:33	1718-51-0	
Phenol-d6 (S)	86	%.	54-121		1	07/31/24 09:16	08/01/24 14:33	13127-88-3	
2-Fluorophenol (S)	84	%.	57-124		1	07/31/24 09:16	08/01/24 14:33	367-12-4	
2,4,6-Tribromophenol (S)	83	%.	44-127		1	07/31/24 09:16	08/01/24 14:33	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**219**	ug/kg	48.0	32.2	1	07/30/24 12:18	07/30/24 13:14	67-64-1	CL,MH
Benzene	ND	ug/kg	4.8	0.83	1	07/30/24 12:18	07/30/24 13:14	71-43-2	
Bromochloromethane	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 13:14	74-97-5	ML
Bromodichloromethane	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 13:14	75-27-4	
Bromoform	ND	ug/kg	4.8	2.0	1	07/30/24 12:18	07/30/24 13:14	75-25-2	
Bromomethane	ND	ug/kg	4.8	1.8	1	07/30/24 12:18	07/30/24 13:14	74-83-9	2c,CL, ML
TOTAL BTEX	ND	ug/kg	28.8	5.9	1	07/30/24 12:18	07/30/24 13:14		LS
2-Butanone (MEK)	**24.2**	ug/kg	9.6	2.5	1	07/30/24 12:18	07/30/24 13:14	78-93-3	R1
Carbon disulfide	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 13:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1.7	1	07/30/24 12:18	07/30/24 13:14	56-23-5	ML
Chlorobenzene	ND	ug/kg	4.8	0.75	1	07/30/24 12:18	07/30/24 13:14	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.0	1	07/30/24 12:18	07/30/24 13:14	75-00-3	
Chloroform	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 13:14	67-66-3	ML
Chloromethane	ND	ug/kg	4.8	1.6	1	07/30/24 12:18	07/30/24 13:14	74-87-3	CL
Dibromochloromethane	ND	ug/kg	4.8	0.76	1	07/30/24 12:18	07/30/24 13:14	124-48-1	ML
1,2-Dichlorobenzene	ND	ug/kg	4.8	0.57	1	07/30/24 12:18	07/30/24 13:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	0.62	1	07/30/24 12:18	07/30/24 13:14	541-73-1	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-01-1003 **Lab ID: 30704041003** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,4-Dichlorobenzene	ND	ug/kg	4.8	0.68	1	07/30/24 12:18	07/30/24 13:14	106-46-7	
1,1-Dichloroethane	ND	ug/kg	4.8	1.2	1	07/30/24 12:18	07/30/24 13:14	75-34-3	ML,R1
1,2-Dichloroethane	ND	ug/kg	4.8	1.2	1	07/30/24 12:18	07/30/24 13:14	107-06-2	ML
1,2-Dichloroethene (Total)	ND	ug/kg	9.6	2.3	1	07/30/24 12:18	07/30/24 13:14	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.8	1.8	1	07/30/24 12:18	07/30/24 13:14	75-35-4	ML,R1
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1.1	1	07/30/24 12:18	07/30/24 13:14	156-59-2	ML
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1.2	1	07/30/24 12:18	07/30/24 13:14	156-60-5	ML
1,2-Dichloropropane	ND	ug/kg	4.8	0.69	1	07/30/24 12:18	07/30/24 13:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	0.48	1	07/30/24 12:18	07/30/24 13:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 13:14	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 13:14	100-41-4	
2-Hexanone	**4.6J**	ug/kg	9.6	2.2	1	07/30/24 12:18	07/30/24 13:14	591-78-6	R1
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1.1	1	07/30/24 12:18	07/30/24 13:14	98-82-8	
Methylene Chloride	ND	ug/kg	4.8	4.0	1	07/30/24 12:18	07/30/24 13:14	75-09-2	CL,IH, ML
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.6	1.1	1	07/30/24 12:18	07/30/24 13:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	0.64	1	07/30/24 12:18	07/30/24 13:14	1634-04-4	ML,R1
Naphthalene	ND	ug/kg	4.8	3.8	1	07/30/24 12:18	07/30/24 13:14	91-20-3	
Styrene	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 13:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	0.57	1	07/30/24 12:18	07/30/24 13:14	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1.7	1	07/30/24 12:18	07/30/24 13:14	127-18-4	
Toluene	ND	ug/kg	4.8	0.95	1	07/30/24 12:18	07/30/24 13:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1.9	1	07/30/24 12:18	07/30/24 13:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 13:14	71-55-6	ML
1,1,2-Trichloroethane	ND	ug/kg	4.8	0.95	1	07/30/24 12:18	07/30/24 13:14	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 13:14	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	2.3	1	07/30/24 12:18	07/30/24 13:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1.9	1	07/30/24 12:18	07/30/24 13:14	108-67-8	
Vinyl chloride	ND	ug/kg	4.8	2.0	1	07/30/24 12:18	07/30/24 13:14	75-01-4	ML
Xylene (Total)	ND	ug/kg	14.4	6.5	1	07/30/24 12:18	07/30/24 13:14	1330-20-7	LS
m&p-Xylene	ND	ug/kg	9.6	5.5	1	07/30/24 12:18	07/30/24 13:14	179601-23-1	L2
o-Xylene	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 13:14	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 13:14	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	07/30/24 12:18	07/30/24 13:14	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	07/30/24 12:18	07/30/24 13:14	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130		1	07/30/24 12:18	07/30/24 13:14	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**20.7**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-02-1004 **Lab ID: 30704041004** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**10.5**	mg/kg	6.4	0.44	1	07/29/24 11:40	07/31/24 14:14	7440-38-2	
Barium	**98.0**	mg/kg	6.4	0.47	1	07/29/24 11:40	07/31/24 14:14	7440-39-3	
Cadmium	**0.25J**	mg/kg	1.3	0.18	1	07/29/24 11:40	07/31/24 14:14	7440-43-9	
Chromium	**40.4**	mg/kg	6.4	0.80	1	07/29/24 11:40	07/31/24 14:14	7440-47-3	
Lead	**24.3**	mg/kg	6.4	0.66	1	07/29/24 11:40	07/31/24 14:14	7439-92-1	
Selenium	ND	mg/kg	6.4	1.3	1	07/29/24 11:40	07/31/24 14:14	7782-49-2	
Silver	ND	mg/kg	3.2	0.46	1	07/29/24 11:40	07/31/24 14:14	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.033**	mg/kg	0.026	0.025	1	07/29/24 11:10	07/30/24 11:43	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.7	2.3	1	08/01/24 10:21	08/02/24 15:50	83-32-9	
Acenaphthylene	ND	ug/kg	8.7	1.8	1	08/01/24 10:21	08/02/24 15:50	208-96-8	
Anthracene	ND	ug/kg	8.7	1.7	1	08/01/24 10:21	08/02/24 15:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.7	2.3	1	08/01/24 10:21	08/02/24 15:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.7	3.8	1	08/01/24 10:21	08/02/24 15:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.7	2.5	1	08/01/24 10:21	08/02/24 15:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.7	1.3	1	08/01/24 10:21	08/02/24 15:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.7	1.5	1	08/01/24 10:21	08/02/24 15:50	207-08-9	
Chrysene	ND	ug/kg	8.7	1.4	1	08/01/24 10:21	08/02/24 15:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.7	1.7	1	08/01/24 10:21	08/02/24 15:50	53-70-3	
Fluoranthene	ND	ug/kg	8.7	5.8	1	08/01/24 10:21	08/02/24 15:50	206-44-0	
Fluorene	ND	ug/kg	17.3	8.9	1	08/01/24 10:21	08/02/24 15:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.7	3.3	1	08/01/24 10:21	08/02/24 15:50	193-39-5	
Naphthalene	ND	ug/kg	8.7	3.7	1	08/01/24 10:21	08/02/24 15:50	91-20-3	
Phenanthrene	ND	ug/kg	17.3	5.2	1	08/01/24 10:21	08/02/24 15:50	85-01-8	
Pyrene	ND	ug/kg	8.7	7.6	1	08/01/24 10:21	08/02/24 15:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%.	46-99		1	08/01/24 10:21	08/02/24 15:50	321-60-8	
Terphenyl-d14 (S)	87	%.	48-118		1	08/01/24 10:21	08/02/24 15:50	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	426	63.3	1	07/31/24 09:16	08/01/24 15:40	83-32-9	
Acenaphthylene	ND	ug/kg	426	128	1	07/31/24 09:16	08/01/24 15:40	208-96-8	
Anthracene	ND	ug/kg	426	97.9	1	07/31/24 09:16	08/01/24 15:40	120-12-7	
Azobenzene	ND	ug/kg	426	150	1	07/31/24 09:16	08/01/24 15:40	103-33-3	
Benzo(a)anthracene	ND	ug/kg	426	73.8	1	07/31/24 09:16	08/01/24 15:40	56-55-3	
Benzo(a)pyrene	ND	ug/kg	426	132	1	07/31/24 09:16	08/01/24 15:40	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	426	129	1	07/31/24 09:16	08/01/24 15:40	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	426	148	1	07/31/24 09:16	08/01/24 15:40	191-24-2	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-02-1004 **Lab ID: 30704041004** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	426	188	1	07/31/24 09:16	08/01/24 15:40	207-08-9	Ip
Benzoic acid	ND	ug/kg	6390	2160	1	07/31/24 09:16	08/01/24 15:40	65-85-0	
Benzyl alcohol	ND	ug/kg	426	377	1	07/31/24 09:16	08/01/24 15:40	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	426	157	1	07/31/24 09:16	08/01/24 15:40	101-55-3	
Butylbenzylphthalate	ND	ug/kg	426	120	1	07/31/24 09:16	08/01/24 15:40	85-68-7	
Carbazole	ND	ug/kg	426	167	1	07/31/24 09:16	08/01/24 15:40	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	426	68.6	1	07/31/24 09:16	08/01/24 15:40	59-50-7	
4-Chloroaniline	ND	ug/kg	426	75.0	1	07/31/24 09:16	08/01/24 15:40	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	426	74.0	1	07/31/24 09:16	08/01/24 15:40	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	426	77.8	1	07/31/24 09:16	08/01/24 15:40	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	426	121	1	07/31/24 09:16	08/01/24 15:40	108-60-1	
2-Chloronaphthalene	ND	ug/kg	426	122	1	07/31/24 09:16	08/01/24 15:40	91-58-7	
2-Chlorophenol	ND	ug/kg	426	60.8	1	07/31/24 09:16	08/01/24 15:40	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	426	123	1	07/31/24 09:16	08/01/24 15:40	7005-72-3	
Chrysene	ND	ug/kg	426	63.2	1	07/31/24 09:16	08/01/24 15:40	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	426	162	1	07/31/24 09:16	08/01/24 15:40	53-70-3	
Dibenzofuran	ND	ug/kg	426	137	1	07/31/24 09:16	08/01/24 15:40	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	426	56.0	1	07/31/24 09:16	08/01/24 15:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	426	53.0	1	07/31/24 09:16	08/01/24 15:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	426	58.8	1	07/31/24 09:16	08/01/24 15:40	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	426	125	1	07/31/24 09:16	08/01/24 15:40	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	426	72.3	1	07/31/24 09:16	08/01/24 15:40	120-83-2	
Diethylphthalate	ND	ug/kg	426	150	1	07/31/24 09:16	08/01/24 15:40	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	426	129	1	07/31/24 09:16	08/01/24 15:40	105-67-9	
Dimethylphthalate	ND	ug/kg	426	131	1	07/31/24 09:16	08/01/24 15:40	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3410	3120	1	07/31/24 09:16	08/01/24 15:40	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	317	1	07/31/24 09:16	08/01/24 15:40	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	958	1	07/31/24 09:16	08/01/24 15:40	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	426	129	1	07/31/24 09:16	08/01/24 15:40	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	426	130	1	07/31/24 09:16	08/01/24 15:40	606-20-2	
Di-n-octylphthalate	ND	ug/kg	426	280	1	07/31/24 09:16	08/01/24 15:40	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	426	136	1	07/31/24 09:16	08/01/24 15:40	117-81-7	
Fluoranthene	ND	ug/kg	426	137	1	07/31/24 09:16	08/01/24 15:40	206-44-0	
Fluorene	ND	ug/kg	426	130	1	07/31/24 09:16	08/01/24 15:40	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	426	66.8	1	07/31/24 09:16	08/01/24 15:40	87-68-3	
Hexachlorobenzene	ND	ug/kg	426	122	1	07/31/24 09:16	08/01/24 15:40	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	426	205	1	07/31/24 09:16	08/01/24 15:40	77-47-4	L2
Hexachloroethane	ND	ug/kg	426	115	1	07/31/24 09:16	08/01/24 15:40	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	426	160	1	07/31/24 09:16	08/01/24 15:40	193-39-5	
Isophorone	ND	ug/kg	426	61.5	1	07/31/24 09:16	08/01/24 15:40	78-59-1	
1-Methylnaphthalene	ND	ug/kg	426	107	1	07/31/24 09:16	08/01/24 15:40	90-12-0	
2-Methylnaphthalene	ND	ug/kg	426	62.3	1	07/31/24 09:16	08/01/24 15:40	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	426	153	1	07/31/24 09:16	08/01/24 15:40	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	852	262	1	07/31/24 09:16	08/01/24 15:40		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-02-1004 **Lab ID: 30704041004** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1070	148	1	07/31/24 09:16	08/01/24 15:40	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	278	1	07/31/24 09:16	08/01/24 15:40	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	598	1	07/31/24 09:16	08/01/24 15:40	100-01-6	CH
Nitrobenzene	ND	ug/kg	426	61.2	1	07/31/24 09:16	08/01/24 15:40	98-95-3	
2-Nitrophenol	ND	ug/kg	426	79.8	1	07/31/24 09:16	08/01/24 15:40	88-75-5	
4-Nitrophenol	ND	ug/kg	426	143	1	07/31/24 09:16	08/01/24 15:40	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	426	73.0	1	07/31/24 09:16	08/01/24 15:40	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	426	75.0	1	07/31/24 09:16	08/01/24 15:40	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	426	96.1	1	07/31/24 09:16	08/01/24 15:40	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	561	1	07/31/24 09:16	08/01/24 15:40	87-86-5	
Phenanthrene	ND	ug/kg	426	77.3	1	07/31/24 09:16	08/01/24 15:40	85-01-8	
Phenol	ND	ug/kg	426	126	1	07/31/24 09:16	08/01/24 15:40	108-95-2	
Pyrene	ND	ug/kg	426	156	1	07/31/24 09:16	08/01/24 15:40	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	426	115	1	07/31/24 09:16	08/01/24 15:40	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	126	1	07/31/24 09:16	08/01/24 15:40	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	426	111	1	07/31/24 09:16	08/01/24 15:40	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	87	%.	32-154		1	07/31/24 09:16	08/01/24 15:40	4165-60-0	
2-Fluorobiphenyl (S)	87	%.	50-144		1	07/31/24 09:16	08/01/24 15:40	321-60-8	
Terphenyl-d14 (S)	98	%.	57-146		1	07/31/24 09:16	08/01/24 15:40	1718-51-0	
Phenol-d6 (S)	92	%.	54-121		1	07/31/24 09:16	08/01/24 15:40	13127-88-3	
2-Fluorophenol (S)	89	%.	57-124		1	07/31/24 09:16	08/01/24 15:40	367-12-4	
2,4,6-Tribromophenol (S)	89	%.	44-127		1	07/31/24 09:16	08/01/24 15:40	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**182**	ug/kg	47.7	32.1	1	07/30/24 12:18	07/30/24 14:37	67-64-1	CL
Benzene	ND	ug/kg	4.8	0.83	1	07/30/24 12:18	07/30/24 14:37	71-43-2	
Bromochloromethane	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 14:37	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 14:37	75-27-4	
Bromoform	ND	ug/kg	4.8	1.9	1	07/30/24 12:18	07/30/24 14:37	75-25-2	
Bromomethane	ND	ug/kg	4.8	1.8	1	07/30/24 12:18	07/30/24 14:37	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	28.6	5.8	1	07/30/24 12:18	07/30/24 14:37		LS
2-Butanone (MEK)	**19.7**	ug/kg	9.5	2.5	1	07/30/24 12:18	07/30/24 14:37	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 14:37	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1.6	1	07/30/24 12:18	07/30/24 14:37	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	0.74	1	07/30/24 12:18	07/30/24 14:37	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.0	1	07/30/24 12:18	07/30/24 14:37	75-00-3	
Chloroform	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 14:37	67-66-3	
Chloromethane	ND	ug/kg	4.8	1.6	1	07/30/24 12:18	07/30/24 14:37	74-87-3	CL
Dibromochloromethane	ND	ug/kg	4.8	0.75	1	07/30/24 12:18	07/30/24 14:37	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.8	0.56	1	07/30/24 12:18	07/30/24 14:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	0.62	1	07/30/24 12:18	07/30/24 14:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	0.68	1	07/30/24 12:18	07/30/24 14:37	106-46-7	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-3(1-2)-02-1004 **Lab ID: 30704041004** Collected: 07/23/24 11:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.8	1.2	1	07/30/24 12:18	07/30/24 14:37	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1.2	1	07/30/24 12:18	07/30/24 14:37	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	9.5	2.3	1	07/30/24 12:18	07/30/24 14:37	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.8	1.8	1	07/30/24 12:18	07/30/24 14:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1.1	1	07/30/24 12:18	07/30/24 14:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1.2	1	07/30/24 12:18	07/30/24 14:37	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	0.69	1	07/30/24 12:18	07/30/24 14:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	0.48	1	07/30/24 12:18	07/30/24 14:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	0.99	1	07/30/24 12:18	07/30/24 14:37	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 14:37	100-41-4	
2-Hexanone	**4.5J**	ug/kg	9.5	2.2	1	07/30/24 12:18	07/30/24 14:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1.1	1	07/30/24 12:18	07/30/24 14:37	98-82-8	
Methylene Chloride	ND	ug/kg	4.8	4.0	1	07/30/24 12:18	07/30/24 14:37	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.5	1.1	1	07/30/24 12:18	07/30/24 14:37	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	0.64	1	07/30/24 12:18	07/30/24 14:37	1634-04-4	
Naphthalene	ND	ug/kg	4.8	3.8	1	07/30/24 12:18	07/30/24 14:37	91-20-3	
Styrene	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 14:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	0.56	1	07/30/24 12:18	07/30/24 14:37	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1.7	1	07/30/24 12:18	07/30/24 14:37	127-18-4	
Toluene	ND	ug/kg	4.8	0.94	1	07/30/24 12:18	07/30/24 14:37	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1.9	1	07/30/24 12:18	07/30/24 14:37	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 14:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	0.94	1	07/30/24 12:18	07/30/24 14:37	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1.4	1	07/30/24 12:18	07/30/24 14:37	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	2.3	1	07/30/24 12:18	07/30/24 14:37	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	1.9	1	07/30/24 12:18	07/30/24 14:37	108-67-8	
Vinyl chloride	ND	ug/kg	4.8	2.0	1	07/30/24 12:18	07/30/24 14:37	75-01-4	
Xylene (Total)	ND	ug/kg	14.3	6.5	1	07/30/24 12:18	07/30/24 14:37	1330-20-7	LS
m&p-Xylene	ND	ug/kg	9.5	5.5	1	07/30/24 12:18	07/30/24 14:37	179601-23-1	L2
o-Xylene	ND	ug/kg	4.8	1.0	1	07/30/24 12:18	07/30/24 14:37	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	07/30/24 12:18	07/30/24 14:37	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	07/30/24 12:18	07/30/24 14:37	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	07/30/24 12:18	07/30/24 14:37	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	07/30/24 12:18	07/30/24 14:37	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**23.3**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-01-1005 **Lab ID: 30704041005** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**28.7**	mg/kg	7.8	0.54	1	07/29/24 11:40	07/31/24 14:17	7440-38-2	
Barium	**86.7**	mg/kg	7.8	0.57	1	07/29/24 11:40	07/31/24 14:17	7440-39-3	
Cadmium	**0.72J**	mg/kg	1.6	0.22	1	07/29/24 11:40	07/31/24 14:17	7440-43-9	
Chromium	**24.4**	mg/kg	7.8	0.98	1	07/29/24 11:40	07/31/24 14:17	7440-47-3	
Lead	**16.2**	mg/kg	7.8	0.80	1	07/29/24 11:40	07/31/24 14:17	7439-92-1	
Selenium	ND	mg/kg	7.8	1.6	1	07/29/24 11:40	07/31/24 14:17	7782-49-2	
Silver	ND	mg/kg	3.9	0.55	1	07/29/24 11:40	07/31/24 14:17	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.058**	mg/kg	0.031	0.029	1	07/29/24 11:10	07/30/24 11:50	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	10.2	2.7	1	08/01/24 10:21	08/02/24 16:10	83-32-9	R1
Acenaphthylene	ND	ug/kg	10.2	2.1	1	08/01/24 10:21	08/02/24 16:10	208-96-8	R1
Anthracene	ND	ug/kg	10.2	2.0	1	08/01/24 10:21	08/02/24 16:10	120-12-7	R1
Benzo(a)anthracene	ND	ug/kg	10.2	2.7	1	08/01/24 10:21	08/02/24 16:10	56-55-3	R1
Benzo(a)pyrene	ND	ug/kg	10.2	4.5	1	08/01/24 10:21	08/02/24 16:10	50-32-8	R1
Benzo(b)fluoranthene	ND	ug/kg	10.2	2.9	1	08/01/24 10:21	08/02/24 16:10	205-99-2	R1
Benzo(g,h,i)perylene	ND	ug/kg	10.2	1.5	1	08/01/24 10:21	08/02/24 16:10	191-24-2	R1
Benzo(k)fluoranthene	ND	ug/kg	10.2	1.7	1	08/01/24 10:21	08/02/24 16:10	207-08-9	R1
Chrysene	ND	ug/kg	10.2	1.6	1	08/01/24 10:21	08/02/24 16:10	218-01-9	R1
Dibenz(a,h)anthracene	ND	ug/kg	10.2	2.0	1	08/01/24 10:21	08/02/24 16:10	53-70-3	R1
Fluoranthene	ND	ug/kg	10.2	6.8	1	08/01/24 10:21	08/02/24 16:10	206-44-0	R1
Fluorene	ND	ug/kg	20.3	10.5	1	08/01/24 10:21	08/02/24 16:10	86-73-7	R1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	10.2	3.9	1	08/01/24 10:21	08/02/24 16:10	193-39-5	R1
Naphthalene	ND	ug/kg	10.2	4.3	1	08/01/24 10:21	08/02/24 16:10	91-20-3	R1
Phenanthrene	ND	ug/kg	20.3	6.1	1	08/01/24 10:21	08/02/24 16:10	85-01-8	R1
Pyrene	ND	ug/kg	10.2	9.0	1	08/01/24 10:21	08/02/24 16:10	129-00-0	R1
Surrogates									
2-Fluorobiphenyl (S)	66	%.	46-99		1	08/01/24 10:21	08/02/24 16:10	321-60-8	
Terphenyl-d14 (S)	79	%.	48-118		1	08/01/24 10:21	08/02/24 16:10	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	512	76.0	1	07/31/24 09:16	08/01/24 16:02	83-32-9	
Acenaphthylene	ND	ug/kg	512	154	1	07/31/24 09:16	08/01/24 16:02	208-96-8	
Anthracene	ND	ug/kg	512	118	1	07/31/24 09:16	08/01/24 16:02	120-12-7	
Azobenzene	ND	ug/kg	512	181	1	07/31/24 09:16	08/01/24 16:02	103-33-3	
Benzo(a)anthracene	ND	ug/kg	512	88.7	1	07/31/24 09:16	08/01/24 16:02	56-55-3	
Benzo(a)pyrene	ND	ug/kg	512	159	1	07/31/24 09:16	08/01/24 16:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	512	156	1	07/31/24 09:16	08/01/24 16:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	512	178	1	07/31/24 09:16	08/01/24 16:02	191-24-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-01-1005 **Lab ID: 30704041005** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	512	226	1	07/31/24 09:16	08/01/24 16:02	207-08-9	
Benzoic acid	ND	ug/kg	7680	2590	1	07/31/24 09:16	08/01/24 16:02	65-85-0	
Benzyl alcohol	ND	ug/kg	512	453	1	07/31/24 09:16	08/01/24 16:02	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	512	188	1	07/31/24 09:16	08/01/24 16:02	101-55-3	
Butylbenzylphthalate	ND	ug/kg	512	144	1	07/31/24 09:16	08/01/24 16:02	85-68-7	
Carbazole	ND	ug/kg	512	201	1	07/31/24 09:16	08/01/24 16:02	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	512	82.4	1	07/31/24 09:16	08/01/24 16:02	59-50-7	
4-Chloroaniline	ND	ug/kg	512	90.1	1	07/31/24 09:16	08/01/24 16:02	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	512	89.0	1	07/31/24 09:16	08/01/24 16:02	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	512	93.5	1	07/31/24 09:16	08/01/24 16:02	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	512	145	1	07/31/24 09:16	08/01/24 16:02	108-60-1	
2-Chloronaphthalene	ND	ug/kg	512	146	1	07/31/24 09:16	08/01/24 16:02	91-58-7	
2-Chlorophenol	ND	ug/kg	512	73.0	1	07/31/24 09:16	08/01/24 16:02	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	512	148	1	07/31/24 09:16	08/01/24 16:02	7005-72-3	
Chrysene	ND	ug/kg	512	75.9	1	07/31/24 09:16	08/01/24 16:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	512	195	1	07/31/24 09:16	08/01/24 16:02	53-70-3	
Dibenzofuran	ND	ug/kg	512	164	1	07/31/24 09:16	08/01/24 16:02	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	512	67.3	1	07/31/24 09:16	08/01/24 16:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	512	63.7	1	07/31/24 09:16	08/01/24 16:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	512	70.7	1	07/31/24 09:16	08/01/24 16:02	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	512	150	1	07/31/24 09:16	08/01/24 16:02	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	512	86.9	1	07/31/24 09:16	08/01/24 16:02	120-83-2	
Diethylphthalate	ND	ug/kg	512	180	1	07/31/24 09:16	08/01/24 16:02	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	512	156	1	07/31/24 09:16	08/01/24 16:02	105-67-9	
Dimethylphthalate	ND	ug/kg	512	158	1	07/31/24 09:16	08/01/24 16:02	131-11-3	
Di-n-butylphthalate	ND	ug/kg	4100	3750	1	07/31/24 09:16	08/01/24 16:02	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1280	381	1	07/31/24 09:16	08/01/24 16:02	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1280	1150	1	07/31/24 09:16	08/01/24 16:02	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	512	155	1	07/31/24 09:16	08/01/24 16:02	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	512	156	1	07/31/24 09:16	08/01/24 16:02	606-20-2	
Di-n-octylphthalate	ND	ug/kg	512	337	1	07/31/24 09:16	08/01/24 16:02	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	512	163	1	07/31/24 09:16	08/01/24 16:02	117-81-7	
Fluoranthene	ND	ug/kg	512	165	1	07/31/24 09:16	08/01/24 16:02	206-44-0	
Fluorene	ND	ug/kg	512	157	1	07/31/24 09:16	08/01/24 16:02	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	512	80.3	1	07/31/24 09:16	08/01/24 16:02	87-68-3	
Hexachlorobenzene	ND	ug/kg	512	147	1	07/31/24 09:16	08/01/24 16:02	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	512	247	1	07/31/24 09:16	08/01/24 16:02	77-47-4	L2
Hexachloroethane	ND	ug/kg	512	138	1	07/31/24 09:16	08/01/24 16:02	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	512	193	1	07/31/24 09:16	08/01/24 16:02	193-39-5	
Isophorone	ND	ug/kg	512	73.9	1	07/31/24 09:16	08/01/24 16:02	78-59-1	
1-Methylnaphthalene	ND	ug/kg	512	129	1	07/31/24 09:16	08/01/24 16:02	90-12-0	
2-Methylnaphthalene	ND	ug/kg	512	74.9	1	07/31/24 09:16	08/01/24 16:02	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	512	184	1	07/31/24 09:16	08/01/24 16:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	1020	314	1	07/31/24 09:16	08/01/24 16:02		

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225 Industrial Park RD
Beaver, WV 25813
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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-01-1005 **Lab ID: 30704041005** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1280	178	1	07/31/24 09:16	08/01/24 16:02	88-74-4	
3-Nitroaniline	ND	ug/kg	1280	334	1	07/31/24 09:16	08/01/24 16:02	99-09-2	
4-Nitroaniline	ND	ug/kg	1280	719	1	07/31/24 09:16	08/01/24 16:02	100-01-6	CH
Nitrobenzene	ND	ug/kg	512	73.5	1	07/31/24 09:16	08/01/24 16:02	98-95-3	
2-Nitrophenol	ND	ug/kg	512	95.9	1	07/31/24 09:16	08/01/24 16:02	88-75-5	
4-Nitrophenol	ND	ug/kg	512	172	1	07/31/24 09:16	08/01/24 16:02	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	512	87.8	1	07/31/24 09:16	08/01/24 16:02	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	512	90.1	1	07/31/24 09:16	08/01/24 16:02	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	512	115	1	07/31/24 09:16	08/01/24 16:02	86-30-6	
Pentachlorophenol	ND	ug/kg	1280	674	1	07/31/24 09:16	08/01/24 16:02	87-86-5	
Phenanthrene	ND	ug/kg	512	92.9	1	07/31/24 09:16	08/01/24 16:02	85-01-8	
Phenol	ND	ug/kg	512	152	1	07/31/24 09:16	08/01/24 16:02	108-95-2	
Pyrene	ND	ug/kg	512	187	1	07/31/24 09:16	08/01/24 16:02	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	512	139	1	07/31/24 09:16	08/01/24 16:02	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1280	151	1	07/31/24 09:16	08/01/24 16:02	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	512	134	1	07/31/24 09:16	08/01/24 16:02	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%.	32-154		1	07/31/24 09:16	08/01/24 16:02	4165-60-0	
2-Fluorobiphenyl (S)	77	%.	50-144		1	07/31/24 09:16	08/01/24 16:02	321-60-8	
Terphenyl-d14 (S)	94	%.	57-146		1	07/31/24 09:16	08/01/24 16:02	1718-51-0	
Phenol-d6 (S)	73	%.	54-121		1	07/31/24 09:16	08/01/24 16:02	13127-88-3	
2-Fluorophenol (S)	70	%.	57-124		1	07/31/24 09:16	08/01/24 16:02	367-12-4	
2,4,6-Tribromophenol (S)	72	%.	44-127		1	07/31/24 09:16	08/01/24 16:02	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**91.5**	ug/kg	52.8	35.5	1	07/30/24 12:18	07/30/24 15:04	67-64-1	CL,ML
Benzene	ND	ug/kg	5.3	0.92	1	07/30/24 12:18	07/30/24 15:04	71-43-2	R1
Bromochloromethane	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 15:04	74-97-5	R1
Bromodichloromethane	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 15:04	75-27-4	R1
Bromoform	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 15:04	75-25-2	R1
Bromomethane	ND	ug/kg	5.3	2.0	1	07/30/24 12:18	07/30/24 15:04	74-83-9	2c,CL, R1
TOTAL BTEX	ND	ug/kg	31.7	6.5	1	07/30/24 12:18	07/30/24 15:04		LS,RS
2-Butanone (MEK)	ND	ug/kg	10.6	2.8	1	07/30/24 12:18	07/30/24 15:04	78-93-3	
Carbon disulfide	ND	ug/kg	5.3	1.5	1	07/30/24 12:18	07/30/24 15:04	75-15-0	R1
Carbon tetrachloride	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 15:04	56-23-5	R1
Chlorobenzene	ND	ug/kg	5.3	0.82	1	07/30/24 12:18	07/30/24 15:04	108-90-7	R1
Chloroethane	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 15:04	75-00-3	R1
Chloroform	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 15:04	67-66-3	R1
Chloromethane	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 15:04	74-87-3	CL,R1
Dibromochloromethane	ND	ug/kg	5.3	0.83	1	07/30/24 12:18	07/30/24 15:04	124-48-1	R1
1,2-Dichlorobenzene	ND	ug/kg	5.3	0.62	1	07/30/24 12:18	07/30/24 15:04	95-50-1	R1
1,3-Dichlorobenzene	ND	ug/kg	5.3	0.69	1	07/30/24 12:18	07/30/24 15:04	541-73-1	R1

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-01-1005 **Lab ID: 30704041005** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,4-Dichlorobenzene	ND	ug/kg	5.3	0.75	1	07/30/24 12:18	07/30/24 15:04	106-46-7	R1
1,1-Dichloroethane	ND	ug/kg	5.3	1.3	1	07/30/24 12:18	07/30/24 15:04	75-34-3	R1
1,2-Dichloroethane	ND	ug/kg	5.3	1.4	1	07/30/24 12:18	07/30/24 15:04	107-06-2	R1
1,2-Dichloroethene (Total)	ND	ug/kg	10.6	2.6	1	07/30/24 12:18	07/30/24 15:04	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.3	2.0	1	07/30/24 12:18	07/30/24 15:04	75-35-4	R1
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 15:04	156-59-2	R1
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1.3	1	07/30/24 12:18	07/30/24 15:04	156-60-5	R1
1,2-Dichloropropane	ND	ug/kg	5.3	0.76	1	07/30/24 12:18	07/30/24 15:04	78-87-5	R1
cis-1,3-Dichloropropene	ND	ug/kg	5.3	0.53	1	07/30/24 12:18	07/30/24 15:04	10061-01-5	R1
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 15:04	10061-02-6	R1
Ethylbenzene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 15:04	100-41-4	R1
2-Hexanone	ND	ug/kg	10.6	2.4	1	07/30/24 12:18	07/30/24 15:04	591-78-6	R1
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 15:04	98-82-8	R1
Methylene Chloride	ND	ug/kg	5.3	4.4	1	07/30/24 12:18	07/30/24 15:04	75-09-2	CL,IH, R1
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.6	1.2	1	07/30/24 12:18	07/30/24 15:04	108-10-1	R1
Methyl-tert-butyl ether	ND	ug/kg	5.3	0.71	1	07/30/24 12:18	07/30/24 15:04	1634-04-4	R1
Naphthalene	ND	ug/kg	5.3	4.2	1	07/30/24 12:18	07/30/24 15:04	91-20-3	R1
Styrene	ND	ug/kg	5.3	1.5	1	07/30/24 12:18	07/30/24 15:04	100-42-5	R1
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	0.62	1	07/30/24 12:18	07/30/24 15:04	79-34-5	R1
Tetrachloroethene	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 15:04	127-18-4	R1
Toluene	ND	ug/kg	5.3	1.0	1	07/30/24 12:18	07/30/24 15:04	108-88-3	R1
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	2.1	1	07/30/24 12:18	07/30/24 15:04	120-82-1	R1
1,1,1-Trichloroethane	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 15:04	71-55-6	R1
1,1,2-Trichloroethane	ND	ug/kg	5.3	1.0	1	07/30/24 12:18	07/30/24 15:04	79-00-5	R1
Trichloroethene	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 15:04	79-01-6	R1
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	2.6	1	07/30/24 12:18	07/30/24 15:04	95-63-6	R1
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	2.1	1	07/30/24 12:18	07/30/24 15:04	108-67-8	R1
Vinyl chloride	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 15:04	75-01-4	R1
Xylene (Total)	ND	ug/kg	15.8	7.2	1	07/30/24 12:18	07/30/24 15:04	1330-20-7	LS,RS
m&p-Xylene	ND	ug/kg	10.6	6.1	1	07/30/24 12:18	07/30/24 15:04	179601-23-1	L2,R1
o-Xylene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 15:04	95-47-6	R1
Surrogates									
Toluene-d8 (S)	95	%.	70-130		1	07/30/24 12:18	07/30/24 15:04	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	07/30/24 12:18	07/30/24 15:04	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	07/30/24 12:18	07/30/24 15:04	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130		1	07/30/24 12:18	07/30/24 15:04	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**35.6**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-02-1006 **Lab ID: 30704041006** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**34.0J**	mg/kg	69.0	4.8	10	07/29/24 11:40	08/05/24 10:59	7440-38-2	
Barium	**87.9**	mg/kg	69.0	5.0	10	07/29/24 11:40	08/05/24 10:59	7440-39-3	
Cadmium	ND	mg/kg	13.8	1.9	10	07/29/24 11:40	08/05/24 10:59	7440-43-9	
Chromium	**33.7J**	mg/kg	69.0	8.7	10	07/29/24 11:40	08/05/24 10:59	7440-47-3	
Lead	**25.0J**	mg/kg	69.0	7.1	10	07/29/24 11:40	08/05/24 10:59	7439-92-1	
Selenium	ND	mg/kg	69.0	13.8	10	07/29/24 11:40	08/05/24 10:59	7782-49-2	
Silver	ND	mg/kg	34.5	4.9	10	07/29/24 11:40	08/05/24 10:59	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.085**	mg/kg	0.027	0.026	1	07/29/24 11:10	07/30/24 11:58	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	9.3	2.5	1	08/01/24 10:21	08/02/24 17:09	83-32-9	
Acenaphthylene	ND	ug/kg	9.3	1.9	1	08/01/24 10:21	08/02/24 17:09	208-96-8	
Anthracene	ND	ug/kg	9.3	1.9	1	08/01/24 10:21	08/02/24 17:09	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9.3	2.5	1	08/01/24 10:21	08/02/24 17:09	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.3	4.1	1	08/01/24 10:21	08/02/24 17:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	9.3	2.7	1	08/01/24 10:21	08/02/24 17:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9.3	1.4	1	08/01/24 10:21	08/02/24 17:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9.3	1.6	1	08/01/24 10:21	08/02/24 17:09	207-08-9	
Chrysene	ND	ug/kg	9.3	1.5	1	08/01/24 10:21	08/02/24 17:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.3	1.8	1	08/01/24 10:21	08/02/24 17:09	53-70-3	
Fluoranthene	ND	ug/kg	9.3	6.3	1	08/01/24 10:21	08/02/24 17:09	206-44-0	
Fluorene	ND	ug/kg	18.6	9.6	1	08/01/24 10:21	08/02/24 17:09	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.3	3.6	1	08/01/24 10:21	08/02/24 17:09	193-39-5	
Naphthalene	ND	ug/kg	9.3	4.0	1	08/01/24 10:21	08/02/24 17:09	91-20-3	
Phenanthrene	ND	ug/kg	18.6	5.6	1	08/01/24 10:21	08/02/24 17:09	85-01-8	
Pyrene	ND	ug/kg	9.3	8.2	1	08/01/24 10:21	08/02/24 17:09	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%.	46-99		1	08/01/24 10:21	08/02/24 17:09	321-60-8	
Terphenyl-d14 (S)	88	%.	48-118		1	08/01/24 10:21	08/02/24 17:09	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	465	69.0	1	07/31/24 09:16	08/01/24 17:09	83-32-9	
Acenaphthylene	ND	ug/kg	465	140	1	07/31/24 09:16	08/01/24 17:09	208-96-8	
Anthracene	ND	ug/kg	465	107	1	07/31/24 09:16	08/01/24 17:09	120-12-7	
Azobenzene	ND	ug/kg	465	164	1	07/31/24 09:16	08/01/24 17:09	103-33-3	
Benzo(a)anthracene	ND	ug/kg	465	80.5	1	07/31/24 09:16	08/01/24 17:09	56-55-3	
Benzo(a)pyrene	ND	ug/kg	465	144	1	07/31/24 09:16	08/01/24 17:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	465	141	1	07/31/24 09:16	08/01/24 17:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	465	161	1	07/31/24 09:16	08/01/24 17:09	191-24-2	

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-02-1006 **Lab ID: 30704041006** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	465	205	1	07/31/24 09:16	08/01/24 17:09	207-08-9	
Benzoic acid	ND	ug/kg	6970	2350	1	07/31/24 09:16	08/01/24 17:09	65-85-0	
Benzyl alcohol	ND	ug/kg	465	411	1	07/31/24 09:16	08/01/24 17:09	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	465	171	1	07/31/24 09:16	08/01/24 17:09	101-55-3	
Butylbenzylphthalate	ND	ug/kg	465	131	1	07/31/24 09:16	08/01/24 17:09	85-68-7	
Carbazole	ND	ug/kg	465	183	1	07/31/24 09:16	08/01/24 17:09	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	465	74.8	1	07/31/24 09:16	08/01/24 17:09	59-50-7	
4-Chloroaniline	ND	ug/kg	465	81.8	1	07/31/24 09:16	08/01/24 17:09	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	465	80.8	1	07/31/24 09:16	08/01/24 17:09	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	465	84.9	1	07/31/24 09:16	08/01/24 17:09	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	465	132	1	07/31/24 09:16	08/01/24 17:09	108-60-1	
2-Chloronaphthalene	ND	ug/kg	465	133	1	07/31/24 09:16	08/01/24 17:09	91-58-7	
2-Chlorophenol	ND	ug/kg	465	66.3	1	07/31/24 09:16	08/01/24 17:09	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	465	134	1	07/31/24 09:16	08/01/24 17:09	7005-72-3	
Chrysene	ND	ug/kg	465	68.9	1	07/31/24 09:16	08/01/24 17:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	465	177	1	07/31/24 09:16	08/01/24 17:09	53-70-3	
Dibenzofuran	ND	ug/kg	465	149	1	07/31/24 09:16	08/01/24 17:09	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	465	61.1	1	07/31/24 09:16	08/01/24 17:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	465	57.8	1	07/31/24 09:16	08/01/24 17:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	465	64.2	1	07/31/24 09:16	08/01/24 17:09	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	465	136	1	07/31/24 09:16	08/01/24 17:09	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	465	78.9	1	07/31/24 09:16	08/01/24 17:09	120-83-2	
Diethylphthalate	ND	ug/kg	465	164	1	07/31/24 09:16	08/01/24 17:09	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	465	141	1	07/31/24 09:16	08/01/24 17:09	105-67-9	
Dimethylphthalate	ND	ug/kg	465	143	1	07/31/24 09:16	08/01/24 17:09	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3720	3400	1	07/31/24 09:16	08/01/24 17:09	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1160	346	1	07/31/24 09:16	08/01/24 17:09	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1160	1050	1	07/31/24 09:16	08/01/24 17:09	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	465	141	1	07/31/24 09:16	08/01/24 17:09	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	465	141	1	07/31/24 09:16	08/01/24 17:09	606-20-2	
Di-n-octylphthalate	ND	ug/kg	465	306	1	07/31/24 09:16	08/01/24 17:09	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	465	148	1	07/31/24 09:16	08/01/24 17:09	117-81-7	
Fluoranthene	ND	ug/kg	465	150	1	07/31/24 09:16	08/01/24 17:09	206-44-0	
Fluorene	ND	ug/kg	465	142	1	07/31/24 09:16	08/01/24 17:09	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	465	72.9	1	07/31/24 09:16	08/01/24 17:09	87-68-3	
Hexachlorobenzene	ND	ug/kg	465	134	1	07/31/24 09:16	08/01/24 17:09	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	465	224	1	07/31/24 09:16	08/01/24 17:09	77-47-4	L2
Hexachloroethane	ND	ug/kg	465	125	1	07/31/24 09:16	08/01/24 17:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	465	175	1	07/31/24 09:16	08/01/24 17:09	193-39-5	
Isophorone	ND	ug/kg	465	67.1	1	07/31/24 09:16	08/01/24 17:09	78-59-1	
1-Methylnaphthalene	ND	ug/kg	465	117	1	07/31/24 09:16	08/01/24 17:09	90-12-0	
2-Methylnaphthalene	ND	ug/kg	465	68.0	1	07/31/24 09:16	08/01/24 17:09	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	465	167	1	07/31/24 09:16	08/01/24 17:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	930	285	1	07/31/24 09:16	08/01/24 17:09		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-02-1006 **Lab ID: 30704041006** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1160	161	1	07/31/24 09:16	08/01/24 17:09	88-74-4	
3-Nitroaniline	ND	ug/kg	1160	303	1	07/31/24 09:16	08/01/24 17:09	99-09-2	
4-Nitroaniline	ND	ug/kg	1160	652	1	07/31/24 09:16	08/01/24 17:09	100-01-6	CH
Nitrobenzene	ND	ug/kg	465	66.8	1	07/31/24 09:16	08/01/24 17:09	98-95-3	
2-Nitrophenol	ND	ug/kg	465	87.1	1	07/31/24 09:16	08/01/24 17:09	88-75-5	
4-Nitrophenol	ND	ug/kg	465	156	1	07/31/24 09:16	08/01/24 17:09	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	465	79.7	1	07/31/24 09:16	08/01/24 17:09	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	465	81.8	1	07/31/24 09:16	08/01/24 17:09	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	465	105	1	07/31/24 09:16	08/01/24 17:09	86-30-6	
Pentachlorophenol	ND	ug/kg	1160	612	1	07/31/24 09:16	08/01/24 17:09	87-86-5	
Phenanthrene	ND	ug/kg	465	84.3	1	07/31/24 09:16	08/01/24 17:09	85-01-8	
Phenol	ND	ug/kg	465	138	1	07/31/24 09:16	08/01/24 17:09	108-95-2	
Pyrene	ND	ug/kg	465	170	1	07/31/24 09:16	08/01/24 17:09	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	465	126	1	07/31/24 09:16	08/01/24 17:09	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1160	137	1	07/31/24 09:16	08/01/24 17:09	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	465	121	1	07/31/24 09:16	08/01/24 17:09	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	82	%.	32-154		1	07/31/24 09:16	08/01/24 17:09	4165-60-0	
2-Fluorobiphenyl (S)	82	%.	50-144		1	07/31/24 09:16	08/01/24 17:09	321-60-8	
Terphenyl-d14 (S)	95	%.	57-146		1	07/31/24 09:16	08/01/24 17:09	1718-51-0	
Phenol-d6 (S)	85	%.	54-121		1	07/31/24 09:16	08/01/24 17:09	13127-88-3	
2-Fluorophenol (S)	83	%.	57-124		1	07/31/24 09:16	08/01/24 17:09	367-12-4	
2,4,6-Tribromophenol (S)	84	%.	44-127		1	07/31/24 09:16	08/01/24 17:09	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	55.2	37.1	1	07/30/24 12:18	07/30/24 16:27	67-64-1	CL
Benzene	ND	ug/kg	5.5	0.96	1	07/30/24 12:18	07/30/24 16:27	71-43-2	
Bromochloromethane	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 16:27	74-97-5	
Bromodichloromethane	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 16:27	75-27-4	
Bromoform	ND	ug/kg	5.5	2.2	1	07/30/24 12:18	07/30/24 16:27	75-25-2	
Bromomethane	ND	ug/kg	5.5	2.1	1	07/30/24 12:18	07/30/24 16:27	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	33.1	6.8	1	07/30/24 12:18	07/30/24 16:27		LS
2-Butanone (MEK)	ND	ug/kg	11.0	2.9	1	07/30/24 12:18	07/30/24 16:27	78-93-3	
Carbon disulfide	ND	ug/kg	5.5	1.6	1	07/30/24 12:18	07/30/24 16:27	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.5	1.9	1	07/30/24 12:18	07/30/24 16:27	56-23-5	
Chlorobenzene	ND	ug/kg	5.5	0.86	1	07/30/24 12:18	07/30/24 16:27	108-90-7	
Chloroethane	ND	ug/kg	5.5	2.3	1	07/30/24 12:18	07/30/24 16:27	75-00-3	
Chloroform	ND	ug/kg	5.5	1.7	1	07/30/24 12:18	07/30/24 16:27	67-66-3	
Chloromethane	ND	ug/kg	5.5	1.9	1	07/30/24 12:18	07/30/24 16:27	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.5	0.87	1	07/30/24 12:18	07/30/24 16:27	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.5	0.65	1	07/30/24 12:18	07/30/24 16:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.5	0.72	1	07/30/24 12:18	07/30/24 16:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.5	0.78	1	07/30/24 12:18	07/30/24 16:27	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-3(9-10)-02-1006 **Lab ID: 30704041006** Collected: 07/23/24 11:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.5	1.4	1	07/30/24 12:18	07/30/24 16:27	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.5	1.4	1	07/30/24 12:18	07/30/24 16:27	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.0	2.7	1	07/30/24 12:18	07/30/24 16:27	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.5	2.1	1	07/30/24 12:18	07/30/24 16:27	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.5	1.3	1	07/30/24 12:18	07/30/24 16:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.5	1.4	1	07/30/24 12:18	07/30/24 16:27	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.5	0.79	1	07/30/24 12:18	07/30/24 16:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.5	0.55	1	07/30/24 12:18	07/30/24 16:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.5	1.1	1	07/30/24 12:18	07/30/24 16:27	10061-02-6	
Ethylbenzene	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 16:27	100-41-4	
2-Hexanone	ND	ug/kg	11.0	2.6	1	07/30/24 12:18	07/30/24 16:27	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.5	1.3	1	07/30/24 12:18	07/30/24 16:27	98-82-8	
Methylene Chloride	ND	ug/kg	5.5	4.6	1	07/30/24 12:18	07/30/24 16:27	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.0	1.2	1	07/30/24 12:18	07/30/24 16:27	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.5	0.74	1	07/30/24 12:18	07/30/24 16:27	1634-04-4	
Naphthalene	ND	ug/kg	5.5	4.4	1	07/30/24 12:18	07/30/24 16:27	91-20-3	
Styrene	ND	ug/kg	5.5	1.6	1	07/30/24 12:18	07/30/24 16:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.5	0.65	1	07/30/24 12:18	07/30/24 16:27	79-34-5	
Tetrachloroethene	ND	ug/kg	5.5	1.9	1	07/30/24 12:18	07/30/24 16:27	127-18-4	
Toluene	ND	ug/kg	5.5	1.1	1	07/30/24 12:18	07/30/24 16:27	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.5	2.2	1	07/30/24 12:18	07/30/24 16:27	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.5	1.7	1	07/30/24 12:18	07/30/24 16:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.5	1.1	1	07/30/24 12:18	07/30/24 16:27	79-00-5	
Trichloroethene	ND	ug/kg	5.5	1.6	1	07/30/24 12:18	07/30/24 16:27	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.5	2.7	1	07/30/24 12:18	07/30/24 16:27	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.5	2.2	1	07/30/24 12:18	07/30/24 16:27	108-67-8	
Vinyl chloride	ND	ug/kg	5.5	2.3	1	07/30/24 12:18	07/30/24 16:27	75-01-4	
Xylene (Total)	ND	ug/kg	16.5	7.5	1	07/30/24 12:18	07/30/24 16:27	1330-20-7	LS
m&p-Xylene	ND	ug/kg	11.0	6.4	1	07/30/24 12:18	07/30/24 16:27	179601-23-1	L2
o-Xylene	ND	ug/kg	5.5	1.2	1	07/30/24 12:18	07/30/24 16:27	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	07/30/24 12:18	07/30/24 16:27	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 16:27	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1	07/30/24 12:18	07/30/24 16:27	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130		1	07/30/24 12:18	07/30/24 16:27	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**29.0**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-4(0-1)-01-1007 **Lab ID: 30704041007** Collected: 07/23/24 13:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**7.8**	mg/kg	6.1	0.43	1	07/29/24 11:40	07/31/24 14:26	7440-38-2	
Barium	**61.3**	mg/kg	6.1	0.45	1	07/29/24 11:40	07/31/24 14:26	7440-39-3	
Cadmium	**0.34J**	mg/kg	1.2	0.17	1	07/29/24 11:40	07/31/24 14:26	7440-43-9	
Chromium	**44.1**	mg/kg	6.1	0.77	1	07/29/24 11:40	07/31/24 14:26	7440-47-3	
Lead	**17.7**	mg/kg	6.1	0.63	1	07/29/24 11:40	07/31/24 14:26	7439-92-1	
Selenium	ND	mg/kg	6.1	1.2	1	07/29/24 11:40	07/31/24 14:26	7782-49-2	
Silver	ND	mg/kg	3.1	0.44	1	07/29/24 11:40	07/31/24 14:26	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	ND	mg/kg	0.025	0.024	1	07/29/24 11:10	07/30/24 12:00	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.1	2.1	1	08/01/24 10:21	08/02/24 17:29	83-32-9	
Acenaphthylene	ND	ug/kg	8.1	1.7	1	08/01/24 10:21	08/02/24 17:29	208-96-8	
Anthracene	ND	ug/kg	8.1	1.6	1	08/01/24 10:21	08/02/24 17:29	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.1	2.1	1	08/01/24 10:21	08/02/24 17:29	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.1	3.5	1	08/01/24 10:21	08/02/24 17:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.1	2.3	1	08/01/24 10:21	08/02/24 17:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.1	1.2	1	08/01/24 10:21	08/02/24 17:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.1	1.4	1	08/01/24 10:21	08/02/24 17:29	207-08-9	
Chrysene	ND	ug/kg	8.1	1.3	1	08/01/24 10:21	08/02/24 17:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.1	1.6	1	08/01/24 10:21	08/02/24 17:29	53-70-3	
Fluoranthene	ND	ug/kg	8.1	5.4	1	08/01/24 10:21	08/02/24 17:29	206-44-0	
Fluorene	ND	ug/kg	16.1	8.3	1	08/01/24 10:21	08/02/24 17:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.1	3.1	1	08/01/24 10:21	08/02/24 17:29	193-39-5	
Naphthalene	ND	ug/kg	8.1	3.4	1	08/01/24 10:21	08/02/24 17:29	91-20-3	
Phenanthrene	ND	ug/kg	16.1	4.9	1	08/01/24 10:21	08/02/24 17:29	85-01-8	
Pyrene	ND	ug/kg	8.1	7.1	1	08/01/24 10:21	08/02/24 17:29	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	61	%.	46-99		1	08/01/24 10:21	08/02/24 17:29	321-60-8	
Terphenyl-d14 (S)	82	%.	48-118		1	08/01/24 10:21	08/02/24 17:29	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	408	60.7	1	07/31/24 09:16	08/01/24 17:32	83-32-9	
Acenaphthylene	ND	ug/kg	408	123	1	07/31/24 09:16	08/01/24 17:32	208-96-8	
Anthracene	ND	ug/kg	408	93.8	1	07/31/24 09:16	08/01/24 17:32	120-12-7	
Azobenzene	ND	ug/kg	408	144	1	07/31/24 09:16	08/01/24 17:32	103-33-3	
Benzo(a)anthracene	ND	ug/kg	408	70.7	1	07/31/24 09:16	08/01/24 17:32	56-55-3	
Benzo(a)pyrene	ND	ug/kg	408	127	1	07/31/24 09:16	08/01/24 17:32	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	408	124	1	07/31/24 09:16	08/01/24 17:32	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	408	142	1	07/31/24 09:16	08/01/24 17:32	191-24-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-4(0-1)-01-1007 **Lab ID: 30704041007** Collected: 07/23/24 13:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	408	180	1	07/31/24 09:16	08/01/24 17:32	207-08-9	
Benzoic acid	ND	ug/kg	6130	2070	1	07/31/24 09:16	08/01/24 17:32	65-85-0	
Benzyl alcohol	ND	ug/kg	408	361	1	07/31/24 09:16	08/01/24 17:32	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	408	150	1	07/31/24 09:16	08/01/24 17:32	101-55-3	
Butylbenzylphthalate	ND	ug/kg	408	115	1	07/31/24 09:16	08/01/24 17:32	85-68-7	
Carbazole	ND	ug/kg	408	160	1	07/31/24 09:16	08/01/24 17:32	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	408	65.7	1	07/31/24 09:16	08/01/24 17:32	59-50-7	
4-Chloroaniline	ND	ug/kg	408	71.9	1	07/31/24 09:16	08/01/24 17:32	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	408	71.0	1	07/31/24 09:16	08/01/24 17:32	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	408	74.6	1	07/31/24 09:16	08/01/24 17:32	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	408	116	1	07/31/24 09:16	08/01/24 17:32	108-60-1	
2-Chloronaphthalene	ND	ug/kg	408	117	1	07/31/24 09:16	08/01/24 17:32	91-58-7	
2-Chlorophenol	ND	ug/kg	408	58.3	1	07/31/24 09:16	08/01/24 17:32	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	408	118	1	07/31/24 09:16	08/01/24 17:32	7005-72-3	
Chrysene	ND	ug/kg	408	60.6	1	07/31/24 09:16	08/01/24 17:32	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	408	155	1	07/31/24 09:16	08/01/24 17:32	53-70-3	
Dibenzofuran	ND	ug/kg	408	131	1	07/31/24 09:16	08/01/24 17:32	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	408	53.7	1	07/31/24 09:16	08/01/24 17:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	408	50.8	1	07/31/24 09:16	08/01/24 17:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	408	56.4	1	07/31/24 09:16	08/01/24 17:32	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	408	120	1	07/31/24 09:16	08/01/24 17:32	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	408	69.4	1	07/31/24 09:16	08/01/24 17:32	120-83-2	
Diethylphthalate	ND	ug/kg	408	144	1	07/31/24 09:16	08/01/24 17:32	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	408	124	1	07/31/24 09:16	08/01/24 17:32	105-67-9	
Dimethylphthalate	ND	ug/kg	408	126	1	07/31/24 09:16	08/01/24 17:32	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3270	2990	1	07/31/24 09:16	08/01/24 17:32	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1020	304	1	07/31/24 09:16	08/01/24 17:32	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1020	918	1	07/31/24 09:16	08/01/24 17:32	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	408	124	1	07/31/24 09:16	08/01/24 17:32	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	408	124	1	07/31/24 09:16	08/01/24 17:32	606-20-2	
Di-n-octylphthalate	ND	ug/kg	408	269	1	07/31/24 09:16	08/01/24 17:32	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	408	130	1	07/31/24 09:16	08/01/24 17:32	117-81-7	
Fluoranthene	ND	ug/kg	408	131	1	07/31/24 09:16	08/01/24 17:32	206-44-0	
Fluorene	ND	ug/kg	408	125	1	07/31/24 09:16	08/01/24 17:32	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	408	64.0	1	07/31/24 09:16	08/01/24 17:32	87-68-3	
Hexachlorobenzene	ND	ug/kg	408	117	1	07/31/24 09:16	08/01/24 17:32	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	408	197	1	07/31/24 09:16	08/01/24 17:32	77-47-4	L2
Hexachloroethane	ND	ug/kg	408	110	1	07/31/24 09:16	08/01/24 17:32	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	408	154	1	07/31/24 09:16	08/01/24 17:32	193-39-5	
Isophorone	ND	ug/kg	408	59.0	1	07/31/24 09:16	08/01/24 17:32	78-59-1	
1-Methylnaphthalene	ND	ug/kg	408	103	1	07/31/24 09:16	08/01/24 17:32	90-12-0	
2-Methylnaphthalene	ND	ug/kg	408	59.8	1	07/31/24 09:16	08/01/24 17:32	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	408	147	1	07/31/24 09:16	08/01/24 17:32	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	817	251	1	07/31/24 09:16	08/01/24 17:32		

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-4(0-1)-01-1007 **Lab ID: 30704041007** Collected: 07/23/24 13:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1020	142	1	07/31/24 09:16	08/01/24 17:32	88-74-4	
3-Nitroaniline	ND	ug/kg	1020	267	1	07/31/24 09:16	08/01/24 17:32	99-09-2	
4-Nitroaniline	ND	ug/kg	1020	573	1	07/31/24 09:16	08/01/24 17:32	100-01-6	CH
Nitrobenzene	ND	ug/kg	408	58.7	1	07/31/24 09:16	08/01/24 17:32	98-95-3	
2-Nitrophenol	ND	ug/kg	408	76.5	1	07/31/24 09:16	08/01/24 17:32	88-75-5	
4-Nitrophenol	ND	ug/kg	408	137	1	07/31/24 09:16	08/01/24 17:32	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	408	70.0	1	07/31/24 09:16	08/01/24 17:32	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	408	71.9	1	07/31/24 09:16	08/01/24 17:32	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	408	92.1	1	07/31/24 09:16	08/01/24 17:32	86-30-6	
Pentachlorophenol	ND	ug/kg	1020	538	1	07/31/24 09:16	08/01/24 17:32	87-86-5	
Phenanthrene	ND	ug/kg	408	74.1	1	07/31/24 09:16	08/01/24 17:32	85-01-8	
Phenol	ND	ug/kg	408	121	1	07/31/24 09:16	08/01/24 17:32	108-95-2	
Pyrene	ND	ug/kg	408	149	1	07/31/24 09:16	08/01/24 17:32	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	408	111	1	07/31/24 09:16	08/01/24 17:32	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1020	121	1	07/31/24 09:16	08/01/24 17:32	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	408	107	1	07/31/24 09:16	08/01/24 17:32	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%.	32-154		1	07/31/24 09:16	08/01/24 17:32	4165-60-0	
2-Fluorobiphenyl (S)	83	%.	50-144		1	07/31/24 09:16	08/01/24 17:32	321-60-8	
Terphenyl-d14 (S)	101	%.	57-146		1	07/31/24 09:16	08/01/24 17:32	1718-51-0	
Phenol-d6 (S)	84	%.	54-121		1	07/31/24 09:16	08/01/24 17:32	13127-88-3	
2-Fluorophenol (S)	80	%.	57-124		1	07/31/24 09:16	08/01/24 17:32	367-12-4	
2,4,6-Tribromophenol (S)	90	%.	44-127		1	07/31/24 09:16	08/01/24 17:32	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**165**	ug/kg	61.0	41.0	1	07/30/24 12:18	07/30/24 16:55	67-64-1	CL
Benzene	ND	ug/kg	6.1	1.1	1	07/30/24 12:18	07/30/24 16:55	71-43-2	
Bromochloromethane	ND	ug/kg	6.1	1.3	1	07/30/24 12:18	07/30/24 16:55	74-97-5	
Bromodichloromethane	ND	ug/kg	6.1	1.3	1	07/30/24 12:18	07/30/24 16:55	75-27-4	
Bromoform	ND	ug/kg	6.1	2.5	1	07/30/24 12:18	07/30/24 16:55	75-25-2	
Bromomethane	ND	ug/kg	6.1	2.3	1	07/30/24 12:18	07/30/24 16:55	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	36.6	7.5	1	07/30/24 12:18	07/30/24 16:55		LS
2-Butanone (MEK)	**10.9J**	ug/kg	12.2	3.2	1	07/30/24 12:18	07/30/24 16:55	78-93-3	
Carbon disulfide	ND	ug/kg	6.1	1.7	1	07/30/24 12:18	07/30/24 16:55	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	2.1	1	07/30/24 12:18	07/30/24 16:55	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	0.95	1	07/30/24 12:18	07/30/24 16:55	108-90-7	
Chloroethane	ND	ug/kg	6.1	2.6	1	07/30/24 12:18	07/30/24 16:55	75-00-3	
Chloroform	ND	ug/kg	6.1	1.8	1	07/30/24 12:18	07/30/24 16:55	67-66-3	
Chloromethane	ND	ug/kg	6.1	2.1	1	07/30/24 12:18	07/30/24 16:55	74-87-3	CL
Dibromochloromethane	ND	ug/kg	6.1	0.96	1	07/30/24 12:18	07/30/24 16:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	6.1	0.72	1	07/30/24 12:18	07/30/24 16:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.1	0.79	1	07/30/24 12:18	07/30/24 16:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.1	0.87	1	07/30/24 12:18	07/30/24 16:55	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-4(0-1)-01-1007 **Lab ID: 30704041007** Collected: 07/23/24 13:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	6.1	1.5	1	07/30/24 12:18	07/30/24 16:55	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	1.6	1	07/30/24 12:18	07/30/24 16:55	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	12.2	3.0	1	07/30/24 12:18	07/30/24 16:55	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.1	2.3	1	07/30/24 12:18	07/30/24 16:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1.4	1	07/30/24 12:18	07/30/24 16:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1.5	1	07/30/24 12:18	07/30/24 16:55	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	0.88	1	07/30/24 12:18	07/30/24 16:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	0.61	1	07/30/24 12:18	07/30/24 16:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1.3	1	07/30/24 12:18	07/30/24 16:55	10061-02-6	
Ethylbenzene	ND	ug/kg	6.1	1.3	1	07/30/24 12:18	07/30/24 16:55	100-41-4	
2-Hexanone	**39.2**	ug/kg	12.2	2.8	1	07/30/24 12:18	07/30/24 16:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1.4	1	07/30/24 12:18	07/30/24 16:55	98-82-8	
Methylene Chloride	ND	ug/kg	6.1	5.1	1	07/30/24 12:18	07/30/24 16:55	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.2	1.4	1	07/30/24 12:18	07/30/24 16:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.1	0.82	1	07/30/24 12:18	07/30/24 16:55	1634-04-4	
Naphthalene	ND	ug/kg	6.1	4.8	1	07/30/24 12:18	07/30/24 16:55	91-20-3	
Styrene	ND	ug/kg	6.1	1.8	1	07/30/24 12:18	07/30/24 16:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	0.72	1	07/30/24 12:18	07/30/24 16:55	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	2.1	1	07/30/24 12:18	07/30/24 16:55	127-18-4	
Toluene	ND	ug/kg	6.1	1.2	1	07/30/24 12:18	07/30/24 16:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	2.4	1	07/30/24 12:18	07/30/24 16:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1.8	1	07/30/24 12:18	07/30/24 16:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1.2	1	07/30/24 12:18	07/30/24 16:55	79-00-5	
Trichloroethene	ND	ug/kg	6.1	1.8	1	07/30/24 12:18	07/30/24 16:55	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	3.0	1	07/30/24 12:18	07/30/24 16:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	2.5	1	07/30/24 12:18	07/30/24 16:55	108-67-8	
Vinyl chloride	ND	ug/kg	6.1	2.6	1	07/30/24 12:18	07/30/24 16:55	75-01-4	
Xylene (Total)	ND	ug/kg	18.3	8.3	1	07/30/24 12:18	07/30/24 16:55	1330-20-7	LS
m&p-Xylene	ND	ug/kg	12.2	7.0	1	07/30/24 12:18	07/30/24 16:55	179601-23-1	L2
o-Xylene	ND	ug/kg	6.1	1.3	1	07/30/24 12:18	07/30/24 16:55	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 16:55	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 16:55	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	07/30/24 12:18	07/30/24 16:55	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	07/30/24 12:18	07/30/24 16:55	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**19.5**	%	0.10	0.10	1		07/30/24 12:46		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-4(6-7)-01-1008 **Lab ID: 30704041008** Collected: 07/23/24 13:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**14.2**	mg/kg	6.4	0.45	1	07/29/24 11:40	07/31/24 14:28	7440-38-2	
Barium	**47.9**	mg/kg	6.4	0.47	1	07/29/24 11:40	07/31/24 14:28	7440-39-3	
Cadmium	**2.4**	mg/kg	1.3	0.18	1	07/29/24 11:40	07/31/24 14:28	7440-43-9	
Chromium	**12.8**	mg/kg	6.4	0.81	1	07/29/24 11:40	07/31/24 14:28	7440-47-3	
Lead	**27.7**	mg/kg	6.4	0.66	1	07/29/24 11:40	07/31/24 14:28	7439-92-1	
Selenium	ND	mg/kg	6.4	1.3	1	07/29/24 11:40	07/31/24 14:28	7782-49-2	
Silver	ND	mg/kg	3.2	0.46	1	07/29/24 11:40	07/31/24 14:28	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.035**	mg/kg	0.026	0.025	1	07/29/24 11:10	07/30/24 12:02	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.6	2.3	1	08/01/24 10:21	08/02/24 17:48	83-32-9	
Acenaphthylene	ND	ug/kg	8.6	1.8	1	08/01/24 10:21	08/02/24 17:48	208-96-8	
Anthracene	ND	ug/kg	8.6	1.7	1	08/01/24 10:21	08/02/24 17:48	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.6	2.3	1	08/01/24 10:21	08/02/24 17:48	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.6	3.8	1	08/01/24 10:21	08/02/24 17:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.6	2.5	1	08/01/24 10:21	08/02/24 17:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.6	1.3	1	08/01/24 10:21	08/02/24 17:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.6	1.4	1	08/01/24 10:21	08/02/24 17:48	207-08-9	
Chrysene	ND	ug/kg	8.6	1.4	1	08/01/24 10:21	08/02/24 17:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.6	1.7	1	08/01/24 10:21	08/02/24 17:48	53-70-3	
Fluoranthene	ND	ug/kg	8.6	5.8	1	08/01/24 10:21	08/02/24 17:48	206-44-0	
Fluorene	ND	ug/kg	17.2	8.9	1	08/01/24 10:21	08/02/24 17:48	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.6	3.3	1	08/01/24 10:21	08/02/24 17:48	193-39-5	
Naphthalene	ND	ug/kg	8.6	3.7	1	08/01/24 10:21	08/02/24 17:48	91-20-3	
Phenanthrene	ND	ug/kg	17.2	5.2	1	08/01/24 10:21	08/02/24 17:48	85-01-8	
Pyrene	ND	ug/kg	8.6	7.6	1	08/01/24 10:21	08/02/24 17:48	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%.	46-99		1	08/01/24 10:21	08/02/24 17:48	321-60-8	
Terphenyl-d14 (S)	93	%.	48-118		1	08/01/24 10:21	08/02/24 17:48	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	428	63.5	1	07/31/24 09:16	08/01/24 17:54	83-32-9	
Acenaphthylene	ND	ug/kg	428	128	1	07/31/24 09:16	08/01/24 17:54	208-96-8	
Anthracene	ND	ug/kg	428	98.3	1	07/31/24 09:16	08/01/24 17:54	120-12-7	
Azobenzene	ND	ug/kg	428	151	1	07/31/24 09:16	08/01/24 17:54	103-33-3	
Benzo(a)anthracene	ND	ug/kg	428	74.1	1	07/31/24 09:16	08/01/24 17:54	56-55-3	
Benzo(a)pyrene	ND	ug/kg	428	133	1	07/31/24 09:16	08/01/24 17:54	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 17:54	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	428	148	1	07/31/24 09:16	08/01/24 17:54	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-4(6-7)-01-1008 **Lab ID: 30704041008** Collected: 07/23/24 13:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	428	189	1	07/31/24 09:16	08/01/24 17:54	207-08-9	
Benzoic acid	ND	ug/kg	6420	2170	1	07/31/24 09:16	08/01/24 17:54	65-85-0	
Benzyl alcohol	ND	ug/kg	428	378	1	07/31/24 09:16	08/01/24 17:54	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	428	157	1	07/31/24 09:16	08/01/24 17:54	101-55-3	
Butylbenzylphthalate	ND	ug/kg	428	120	1	07/31/24 09:16	08/01/24 17:54	85-68-7	
Carbazole	ND	ug/kg	428	168	1	07/31/24 09:16	08/01/24 17:54	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	428	68.8	1	07/31/24 09:16	08/01/24 17:54	59-50-7	
4-Chloroaniline	ND	ug/kg	428	75.3	1	07/31/24 09:16	08/01/24 17:54	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	428	74.4	1	07/31/24 09:16	08/01/24 17:54	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	428	78.1	1	07/31/24 09:16	08/01/24 17:54	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	428	122	1	07/31/24 09:16	08/01/24 17:54	108-60-1	
2-Chloronaphthalene	ND	ug/kg	428	122	1	07/31/24 09:16	08/01/24 17:54	91-58-7	
2-Chlorophenol	ND	ug/kg	428	61.0	1	07/31/24 09:16	08/01/24 17:54	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	428	124	1	07/31/24 09:16	08/01/24 17:54	7005-72-3	
Chrysene	ND	ug/kg	428	63.4	1	07/31/24 09:16	08/01/24 17:54	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	428	163	1	07/31/24 09:16	08/01/24 17:54	53-70-3	
Dibenzofuran	ND	ug/kg	428	137	1	07/31/24 09:16	08/01/24 17:54	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	428	56.2	1	07/31/24 09:16	08/01/24 17:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	428	53.2	1	07/31/24 09:16	08/01/24 17:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	428	59.1	1	07/31/24 09:16	08/01/24 17:54	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	428	126	1	07/31/24 09:16	08/01/24 17:54	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	428	72.6	1	07/31/24 09:16	08/01/24 17:54	120-83-2	
Diethylphthalate	ND	ug/kg	428	151	1	07/31/24 09:16	08/01/24 17:54	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 17:54	105-67-9	
Dimethylphthalate	ND	ug/kg	428	132	1	07/31/24 09:16	08/01/24 17:54	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3420	3130	1	07/31/24 09:16	08/01/24 17:54	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	319	1	07/31/24 09:16	08/01/24 17:54	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	962	1	07/31/24 09:16	08/01/24 17:54	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 17:54	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 17:54	606-20-2	
Di-n-octylphthalate	ND	ug/kg	428	282	1	07/31/24 09:16	08/01/24 17:54	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	428	136	1	07/31/24 09:16	08/01/24 17:54	117-81-7	
Fluoranthene	ND	ug/kg	428	138	1	07/31/24 09:16	08/01/24 17:54	206-44-0	
Fluorene	ND	ug/kg	428	131	1	07/31/24 09:16	08/01/24 17:54	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	428	67.1	1	07/31/24 09:16	08/01/24 17:54	87-68-3	
Hexachlorobenzene	ND	ug/kg	428	123	1	07/31/24 09:16	08/01/24 17:54	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	428	206	1	07/31/24 09:16	08/01/24 17:54	77-47-4	L2
Hexachloroethane	ND	ug/kg	428	115	1	07/31/24 09:16	08/01/24 17:54	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	428	161	1	07/31/24 09:16	08/01/24 17:54	193-39-5	
Isophorone	ND	ug/kg	428	61.8	1	07/31/24 09:16	08/01/24 17:54	78-59-1	
1-Methylnaphthalene	ND	ug/kg	428	108	1	07/31/24 09:16	08/01/24 17:54	90-12-0	
2-Methylnaphthalene	ND	ug/kg	428	62.6	1	07/31/24 09:16	08/01/24 17:54	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	428	154	1	07/31/24 09:16	08/01/24 17:54	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	855	263	1	07/31/24 09:16	08/01/24 17:54		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-4(6-7)-01-1008 **Lab ID: 30704041008** Collected: 07/23/24 13:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1070	149	1	07/31/24 09:16	08/01/24 17:54	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	279	1	07/31/24 09:16	08/01/24 17:54	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	600	1	07/31/24 09:16	08/01/24 17:54	100-01-6	CH
Nitrobenzene	ND	ug/kg	428	61.4	1	07/31/24 09:16	08/01/24 17:54	98-95-3	
2-Nitrophenol	ND	ug/kg	428	80.1	1	07/31/24 09:16	08/01/24 17:54	88-75-5	
4-Nitrophenol	ND	ug/kg	428	144	1	07/31/24 09:16	08/01/24 17:54	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	428	73.3	1	07/31/24 09:16	08/01/24 17:54	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	428	75.3	1	07/31/24 09:16	08/01/24 17:54	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	428	96.5	1	07/31/24 09:16	08/01/24 17:54	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	563	1	07/31/24 09:16	08/01/24 17:54	87-86-5	
Phenanthrene	ND	ug/kg	428	77.6	1	07/31/24 09:16	08/01/24 17:54	85-01-8	
Phenol	ND	ug/kg	428	127	1	07/31/24 09:16	08/01/24 17:54	108-95-2	
Pyrene	ND	ug/kg	428	156	1	07/31/24 09:16	08/01/24 17:54	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	428	116	1	07/31/24 09:16	08/01/24 17:54	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	127	1	07/31/24 09:16	08/01/24 17:54	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	428	112	1	07/31/24 09:16	08/01/24 17:54	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	77	%.	32-154		1	07/31/24 09:16	08/01/24 17:54	4165-60-0	
2-Fluorobiphenyl (S)	78	%.	50-144		1	07/31/24 09:16	08/01/24 17:54	321-60-8	
Terphenyl-d14 (S)	90	%.	57-146		1	07/31/24 09:16	08/01/24 17:54	1718-51-0	
Phenol-d6 (S)	75	%.	54-121		1	07/31/24 09:16	08/01/24 17:54	13127-88-3	
2-Fluorophenol (S)	73	%.	57-124		1	07/31/24 09:16	08/01/24 17:54	367-12-4	
2,4,6-Tribromophenol (S)	77	%.	44-127		1	07/31/24 09:16	08/01/24 17:54	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	50.7	34.1	1	07/30/24 12:18	07/30/24 17:23	67-64-1	CL
Benzene	ND	ug/kg	5.1	0.88	1	07/30/24 12:18	07/30/24 17:23	71-43-2	
Bromochloromethane	ND	ug/kg	5.1	1.1	1	07/30/24 12:18	07/30/24 17:23	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1.1	1	07/30/24 12:18	07/30/24 17:23	75-27-4	
Bromoform	ND	ug/kg	5.1	2.1	1	07/30/24 12:18	07/30/24 17:23	75-25-2	
Bromomethane	ND	ug/kg	5.1	1.9	1	07/30/24 12:18	07/30/24 17:23	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	30.4	6.2	1	07/30/24 12:18	07/30/24 17:23		LS
2-Butanone (MEK)	ND	ug/kg	10.1	2.6	1	07/30/24 12:18	07/30/24 17:23	78-93-3	
Carbon disulfide	ND	ug/kg	5.1	1.4	1	07/30/24 12:18	07/30/24 17:23	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	1.7	1	07/30/24 12:18	07/30/24 17:23	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	0.79	1	07/30/24 12:18	07/30/24 17:23	108-90-7	
Chloroethane	ND	ug/kg	5.1	2.1	1	07/30/24 12:18	07/30/24 17:23	75-00-3	
Chloroform	ND	ug/kg	5.1	1.5	1	07/30/24 12:18	07/30/24 17:23	67-66-3	
Chloromethane	ND	ug/kg	5.1	1.7	1	07/30/24 12:18	07/30/24 17:23	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.1	0.80	1	07/30/24 12:18	07/30/24 17:23	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.1	0.60	1	07/30/24 12:18	07/30/24 17:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	0.66	1	07/30/24 12:18	07/30/24 17:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	0.72	1	07/30/24 12:18	07/30/24 17:23	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-4(6-7)-01-1008 **Lab ID: 30704041008** Collected: 07/23/24 13:45 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.1	1.3	1	07/30/24 12:18	07/30/24 17:23	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1.3	1	07/30/24 12:18	07/30/24 17:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.1	2.5	1	07/30/24 12:18	07/30/24 17:23	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.1	1.9	1	07/30/24 12:18	07/30/24 17:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.2	1	07/30/24 12:18	07/30/24 17:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1.3	1	07/30/24 12:18	07/30/24 17:23	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	0.73	1	07/30/24 12:18	07/30/24 17:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	0.51	1	07/30/24 12:18	07/30/24 17:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1.1	1	07/30/24 12:18	07/30/24 17:23	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	1.1	1	07/30/24 12:18	07/30/24 17:23	100-41-4	
2-Hexanone	ND	ug/kg	10.1	2.3	1	07/30/24 12:18	07/30/24 17:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1.2	1	07/30/24 12:18	07/30/24 17:23	98-82-8	
Methylene Chloride	ND	ug/kg	5.1	4.2	1	07/30/24 12:18	07/30/24 17:23	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.1	1.1	1	07/30/24 12:18	07/30/24 17:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	0.68	1	07/30/24 12:18	07/30/24 17:23	1634-04-4	
Naphthalene	ND	ug/kg	5.1	4.0	1	07/30/24 12:18	07/30/24 17:23	91-20-3	
Styrene	ND	ug/kg	5.1	1.5	1	07/30/24 12:18	07/30/24 17:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	0.60	1	07/30/24 12:18	07/30/24 17:23	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1.8	1	07/30/24 12:18	07/30/24 17:23	127-18-4	
Toluene	ND	ug/kg	5.1	1.0	1	07/30/24 12:18	07/30/24 17:23	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	2.0	1	07/30/24 12:18	07/30/24 17:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.5	1	07/30/24 12:18	07/30/24 17:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1.0	1	07/30/24 12:18	07/30/24 17:23	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1.5	1	07/30/24 12:18	07/30/24 17:23	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	2.5	1	07/30/24 12:18	07/30/24 17:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	2.1	1	07/30/24 12:18	07/30/24 17:23	108-67-8	
Vinyl chloride	ND	ug/kg	5.1	2.1	1	07/30/24 12:18	07/30/24 17:23	75-01-4	
Xylene (Total)	ND	ug/kg	15.2	6.9	1	07/30/24 12:18	07/30/24 17:23	1330-20-7	LS
m&p-Xylene	ND	ug/kg	10.1	5.8	1	07/30/24 12:18	07/30/24 17:23	179601-23-1	L2
o-Xylene	ND	ug/kg	5.1	1.1	1	07/30/24 12:18	07/30/24 17:23	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 17:23	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	07/30/24 12:18	07/30/24 17:23	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130		1	07/30/24 12:18	07/30/24 17:23	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	07/30/24 12:18	07/30/24 17:23	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**23.0**	%	0.10	0.10	1		07/30/24 12:46		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-5(0-1)-01-1009 **Lab ID: 30704041009** Collected: 07/23/24 14:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**8.1**	mg/kg	5.9	0.41	1	07/29/24 11:40	07/31/24 14:31	7440-38-2	
Barium	**73.8**	mg/kg	5.9	0.43	1	07/29/24 11:40	07/31/24 14:31	7440-39-3	
Cadmium	**0.38J**	mg/kg	1.2	0.16	1	07/29/24 11:40	07/31/24 14:31	7440-43-9	
Chromium	**30.5**	mg/kg	5.9	0.74	1	07/29/24 11:40	07/31/24 14:31	7440-47-3	
Lead	**26.2**	mg/kg	5.9	0.60	1	07/29/24 11:40	07/31/24 14:31	7439-92-1	
Selenium	ND	mg/kg	5.9	1.2	1	07/29/24 11:40	07/31/24 14:31	7782-49-2	
Silver	ND	mg/kg	2.9	0.42	1	07/29/24 11:40	07/31/24 14:31	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.081**	mg/kg	0.024	0.023	1	07/29/24 11:10	07/30/24 12:05	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	79.0	20.8	10	08/01/24 10:21	08/02/24 18:08	83-32-9	ED
Acenaphthylene	ND	ug/kg	79.0	16.2	10	08/01/24 10:21	08/02/24 18:08	208-96-8	ED
Anthracene	ND	ug/kg	79.0	15.7	10	08/01/24 10:21	08/02/24 18:08	120-12-7	ED
Benzo(a)anthracene	**28.0J**	ug/kg	79.0	20.8	10	08/01/24 10:21	08/02/24 18:08	56-55-3	ED
Benzo(a)pyrene	**36.9J**	ug/kg	79.0	34.5	10	08/01/24 10:21	08/02/24 18:08	50-32-8	ED
Benzo(b)fluoranthene	**86.9**	ug/kg	79.0	22.5	10	08/01/24 10:21	08/02/24 18:08	205-99-2	ED,Ip
Benzo(g,h,i)perylene	**24.5J**	ug/kg	79.0	11.9	10	08/01/24 10:21	08/02/24 18:08	191-24-2	ED
Benzo(k)fluoranthene	**81.5**	ug/kg	79.0	13.2	10	08/01/24 10:21	08/02/24 18:08	207-08-9	ED,Ip
Chrysene	**42.8J**	ug/kg	79.0	12.4	10	08/01/24 10:21	08/02/24 18:08	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	79.0	15.4	10	08/01/24 10:21	08/02/24 18:08	53-70-3	ED
Fluoranthene	**70.2J**	ug/kg	79.0	52.9	10	08/01/24 10:21	08/02/24 18:08	206-44-0	ED
Fluorene	ND	ug/kg	157	81.3	10	08/01/24 10:21	08/02/24 18:08	86-73-7	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	79.0	30.5	10	08/01/24 10:21	08/02/24 18:08	193-39-5	ED
Naphthalene	ND	ug/kg	79.0	33.7	10	08/01/24 10:21	08/02/24 18:08	91-20-3	ED
Phenanthrene	ND	ug/kg	157	47.4	10	08/01/24 10:21	08/02/24 18:08	85-01-8	ED
Pyrene	ND	ug/kg	79.0	69.4	10	08/01/24 10:21	08/02/24 18:08	129-00-0	ED
Surrogates									
2-Fluorobiphenyl (S)	76	%.	46-99		10	08/01/24 10:21	08/02/24 18:08	321-60-8	
Terphenyl-d14 (S)	97	%.	48-118		10	08/01/24 10:21	08/02/24 18:08	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	395	58.7	1	07/31/24 09:16	08/01/24 18:16	83-32-9	
Acenaphthylene	ND	ug/kg	395	119	1	07/31/24 09:16	08/01/24 18:16	208-96-8	
Anthracene	ND	ug/kg	395	90.8	1	07/31/24 09:16	08/01/24 18:16	120-12-7	
Azobenzene	ND	ug/kg	395	140	1	07/31/24 09:16	08/01/24 18:16	103-33-3	
Benzo(a)anthracene	ND	ug/kg	395	68.5	1	07/31/24 09:16	08/01/24 18:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	395	123	1	07/31/24 09:16	08/01/24 18:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 18:16	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	395	137	1	07/31/24 09:16	08/01/24 18:16	191-24-2	

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-5(0-1)-01-1009 **Lab ID: 30704041009** Collected: 07/23/24 14:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	395	175	1	07/31/24 09:16	08/01/24 18:16	207-08-9	Ip
Benzoic acid	ND	ug/kg	5930	2000	1	07/31/24 09:16	08/01/24 18:16	65-85-0	
Benzyl alcohol	ND	ug/kg	395	350	1	07/31/24 09:16	08/01/24 18:16	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	395	145	1	07/31/24 09:16	08/01/24 18:16	101-55-3	
Butylbenzylphthalate	ND	ug/kg	395	111	1	07/31/24 09:16	08/01/24 18:16	85-68-7	
Carbazole	ND	ug/kg	395	155	1	07/31/24 09:16	08/01/24 18:16	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	395	63.6	1	07/31/24 09:16	08/01/24 18:16	59-50-7	
4-Chloroaniline	ND	ug/kg	395	69.6	1	07/31/24 09:16	08/01/24 18:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	395	68.7	1	07/31/24 09:16	08/01/24 18:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	395	72.2	1	07/31/24 09:16	08/01/24 18:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	395	112	1	07/31/24 09:16	08/01/24 18:16	108-60-1	
2-Chloronaphthalene	ND	ug/kg	395	113	1	07/31/24 09:16	08/01/24 18:16	91-58-7	
2-Chlorophenol	ND	ug/kg	395	56.4	1	07/31/24 09:16	08/01/24 18:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	395	114	1	07/31/24 09:16	08/01/24 18:16	7005-72-3	
Chrysene	**59.7J**	ug/kg	395	58.6	1	07/31/24 09:16	08/01/24 18:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	395	150	1	07/31/24 09:16	08/01/24 18:16	53-70-3	
Dibenzofuran	ND	ug/kg	395	127	1	07/31/24 09:16	08/01/24 18:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	395	52.0	1	07/31/24 09:16	08/01/24 18:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	395	49.2	1	07/31/24 09:16	08/01/24 18:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	395	54.6	1	07/31/24 09:16	08/01/24 18:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	395	116	1	07/31/24 09:16	08/01/24 18:16	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	395	67.1	1	07/31/24 09:16	08/01/24 18:16	120-83-2	
Diethylphthalate	ND	ug/kg	395	139	1	07/31/24 09:16	08/01/24 18:16	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 18:16	105-67-9	
Dimethylphthalate	ND	ug/kg	395	122	1	07/31/24 09:16	08/01/24 18:16	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3160	2890	1	07/31/24 09:16	08/01/24 18:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	989	295	1	07/31/24 09:16	08/01/24 18:16	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	989	889	1	07/31/24 09:16	08/01/24 18:16	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 18:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 18:16	606-20-2	
Di-n-octylphthalate	ND	ug/kg	395	260	1	07/31/24 09:16	08/01/24 18:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	395	126	1	07/31/24 09:16	08/01/24 18:16	117-81-7	
Fluoranthene	ND	ug/kg	395	127	1	07/31/24 09:16	08/01/24 18:16	206-44-0	
Fluorene	ND	ug/kg	395	121	1	07/31/24 09:16	08/01/24 18:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	395	62.0	1	07/31/24 09:16	08/01/24 18:16	87-68-3	
Hexachlorobenzene	ND	ug/kg	395	114	1	07/31/24 09:16	08/01/24 18:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	395	191	1	07/31/24 09:16	08/01/24 18:16	77-47-4	L2
Hexachloroethane	ND	ug/kg	395	107	1	07/31/24 09:16	08/01/24 18:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	149	1	07/31/24 09:16	08/01/24 18:16	193-39-5	
Isophorone	ND	ug/kg	395	57.1	1	07/31/24 09:16	08/01/24 18:16	78-59-1	
1-Methylnaphthalene	ND	ug/kg	395	99.4	1	07/31/24 09:16	08/01/24 18:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	395	57.8	1	07/31/24 09:16	08/01/24 18:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	395	142	1	07/31/24 09:16	08/01/24 18:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	791	243	1	07/31/24 09:16	08/01/24 18:16		

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(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-5(0-1)-01-1009 **Lab ID: 30704041009** Collected: 07/23/24 14:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	989	137	1	07/31/24 09:16	08/01/24 18:16	88-74-4	
3-Nitroaniline	ND	ug/kg	989	258	1	07/31/24 09:16	08/01/24 18:16	99-09-2	
4-Nitroaniline	ND	ug/kg	989	555	1	07/31/24 09:16	08/01/24 18:16	100-01-6	CH
Nitrobenzene	ND	ug/kg	395	56.8	1	07/31/24 09:16	08/01/24 18:16	98-95-3	
2-Nitrophenol	ND	ug/kg	395	74.1	1	07/31/24 09:16	08/01/24 18:16	88-75-5	
4-Nitrophenol	ND	ug/kg	395	133	1	07/31/24 09:16	08/01/24 18:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	395	67.8	1	07/31/24 09:16	08/01/24 18:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	395	69.6	1	07/31/24 09:16	08/01/24 18:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	395	89.2	1	07/31/24 09:16	08/01/24 18:16	86-30-6	
Pentachlorophenol	ND	ug/kg	989	521	1	07/31/24 09:16	08/01/24 18:16	87-86-5	
Phenanthrene	ND	ug/kg	395	71.7	1	07/31/24 09:16	08/01/24 18:16	85-01-8	
Phenol	ND	ug/kg	395	117	1	07/31/24 09:16	08/01/24 18:16	108-95-2	
Pyrene	ND	ug/kg	395	144	1	07/31/24 09:16	08/01/24 18:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	395	107	1	07/31/24 09:16	08/01/24 18:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	989	117	1	07/31/24 09:16	08/01/24 18:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	395	103	1	07/31/24 09:16	08/01/24 18:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	83	%.	32-154		1	07/31/24 09:16	08/01/24 18:16	4165-60-0	
2-Fluorobiphenyl (S)	84	%.	50-144		1	07/31/24 09:16	08/01/24 18:16	321-60-8	
Terphenyl-d14 (S)	98	%.	57-146		1	07/31/24 09:16	08/01/24 18:16	1718-51-0	
Phenol-d6 (S)	85	%.	54-121		1	07/31/24 09:16	08/01/24 18:16	13127-88-3	
2-Fluorophenol (S)	80	%.	57-124		1	07/31/24 09:16	08/01/24 18:16	367-12-4	
2,4,6-Tribromophenol (S)	88	%.	44-127		1	07/31/24 09:16	08/01/24 18:16	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**183**	ug/kg	56.9	38.3	1	07/30/24 12:18	07/30/24 17:50	67-64-1	CL
Benzene	ND	ug/kg	5.7	0.99	1	07/30/24 12:18	07/30/24 17:50	71-43-2	
Bromochloromethane	ND	ug/kg	5.7	1.2	1	07/30/24 12:18	07/30/24 17:50	74-97-5	
Bromodichloromethane	ND	ug/kg	5.7	1.2	1	07/30/24 12:18	07/30/24 17:50	75-27-4	
Bromoform	ND	ug/kg	5.7	2.3	1	07/30/24 12:18	07/30/24 17:50	75-25-2	
Bromomethane	ND	ug/kg	5.7	2.1	1	07/30/24 12:18	07/30/24 17:50	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	34.2	7.0	1	07/30/24 12:18	07/30/24 17:50		LS
2-Butanone (MEK)	**15.5**	ug/kg	11.4	3.0	1	07/30/24 12:18	07/30/24 17:50	78-93-3	
Carbon disulfide	ND	ug/kg	5.7	1.6	1	07/30/24 12:18	07/30/24 17:50	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.7	2.0	1	07/30/24 12:18	07/30/24 17:50	56-23-5	
Chlorobenzene	ND	ug/kg	5.7	0.89	1	07/30/24 12:18	07/30/24 17:50	108-90-7	
Chloroethane	ND	ug/kg	5.7	2.4	1	07/30/24 12:18	07/30/24 17:50	75-00-3	
Chloroform	ND	ug/kg	5.7	1.7	1	07/30/24 12:18	07/30/24 17:50	67-66-3	
Chloromethane	ND	ug/kg	5.7	1.9	1	07/30/24 12:18	07/30/24 17:50	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.7	0.90	1	07/30/24 12:18	07/30/24 17:50	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.7	0.67	1	07/30/24 12:18	07/30/24 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.7	0.74	1	07/30/24 12:18	07/30/24 17:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.7	0.81	1	07/30/24 12:18	07/30/24 17:50	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-5(0-1)-01-1009 **Lab ID: 30704041009** Collected: 07/23/24 14:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.7	1.4	1	07/30/24 12:18	07/30/24 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.7	1.5	1	07/30/24 12:18	07/30/24 17:50	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.4	2.8	1	07/30/24 12:18	07/30/24 17:50	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.7	2.1	1	07/30/24 12:18	07/30/24 17:50	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.7	1.3	1	07/30/24 12:18	07/30/24 17:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.7	1.4	1	07/30/24 12:18	07/30/24 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.7	0.82	1	07/30/24 12:18	07/30/24 17:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.7	0.57	1	07/30/24 12:18	07/30/24 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.7	1.2	1	07/30/24 12:18	07/30/24 17:50	10061-02-6	
Ethylbenzene	ND	ug/kg	5.7	1.2	1	07/30/24 12:18	07/30/24 17:50	100-41-4	
2-Hexanone	**18.9**	ug/kg	11.4	2.6	1	07/30/24 12:18	07/30/24 17:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.7	1.3	1	07/30/24 12:18	07/30/24 17:50	98-82-8	
Methylene Chloride	ND	ug/kg	5.7	4.8	1	07/30/24 12:18	07/30/24 17:50	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.4	1.3	1	07/30/24 12:18	07/30/24 17:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.7	0.76	1	07/30/24 12:18	07/30/24 17:50	1634-04-4	
Naphthalene	ND	ug/kg	5.7	4.5	1	07/30/24 12:18	07/30/24 17:50	91-20-3	
Styrene	ND	ug/kg	5.7	1.6	1	07/30/24 12:18	07/30/24 17:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.7	0.67	1	07/30/24 12:18	07/30/24 17:50	79-34-5	
Tetrachloroethene	ND	ug/kg	5.7	2.0	1	07/30/24 12:18	07/30/24 17:50	127-18-4	
Toluene	ND	ug/kg	5.7	1.1	1	07/30/24 12:18	07/30/24 17:50	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.7	2.2	1	07/30/24 12:18	07/30/24 17:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.7	1.7	1	07/30/24 12:18	07/30/24 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.7	1.1	1	07/30/24 12:18	07/30/24 17:50	79-00-5	
Trichloroethene	ND	ug/kg	5.7	1.7	1	07/30/24 12:18	07/30/24 17:50	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.7	2.8	1	07/30/24 12:18	07/30/24 17:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.7	2.3	1	07/30/24 12:18	07/30/24 17:50	108-67-8	
Vinyl chloride	ND	ug/kg	5.7	2.4	1	07/30/24 12:18	07/30/24 17:50	75-01-4	
Xylene (Total)	ND	ug/kg	17.1	7.8	1	07/30/24 12:18	07/30/24 17:50	1330-20-7	LS
m&p-Xylene	ND	ug/kg	11.4	6.6	1	07/30/24 12:18	07/30/24 17:50	179601-23-1	L2
o-Xylene	ND	ug/kg	5.7	1.2	1	07/30/24 12:18	07/30/24 17:50	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 17:50	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	07/30/24 12:18	07/30/24 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	07/30/24 12:18	07/30/24 17:50	17060-07-0	
Dibromofluoromethane (S)	93	%.	70-130		1	07/30/24 12:18	07/30/24 17:50	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**16.5**	%	0.10	0.10	1		07/30/24 12:46		

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-5(7-8)-01-1010 **Lab ID: 30704041010** Collected: 07/23/24 14:40 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**4.3J**	mg/kg	6.3	0.43	1	07/29/24 11:40	07/31/24 14:33	7440-38-2	
Barium	**122**	mg/kg	6.3	0.46	1	07/29/24 11:40	07/31/24 14:33	7440-39-3	
Cadmium	ND	mg/kg	1.3	0.18	1	07/29/24 11:40	07/31/24 14:33	7440-43-9	
Chromium	**11.8**	mg/kg	6.3	0.79	1	07/29/24 11:40	07/31/24 14:33	7440-47-3	
Lead	**12.7**	mg/kg	6.3	0.64	1	07/29/24 11:40	07/31/24 14:33	7439-92-1	
Selenium	ND	mg/kg	6.3	1.3	1	07/29/24 11:40	07/31/24 14:33	7782-49-2	
Silver	ND	mg/kg	3.1	0.45	1	07/29/24 11:40	07/31/24 14:33	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	ND	mg/kg	0.026	0.025	1	07/29/24 11:10	07/30/24 12:07	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.5	2.3	1	08/01/24 10:21	08/02/24 18:28	83-32-9	
Acenaphthylene	ND	ug/kg	8.5	1.8	1	08/01/24 10:21	08/02/24 18:28	208-96-8	
Anthracene	ND	ug/kg	8.5	1.7	1	08/01/24 10:21	08/02/24 18:28	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.5	2.3	1	08/01/24 10:21	08/02/24 18:28	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.5	3.7	1	08/01/24 10:21	08/02/24 18:28	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.5	2.4	1	08/01/24 10:21	08/02/24 18:28	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.5	1.3	1	08/01/24 10:21	08/02/24 18:28	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.5	1.4	1	08/01/24 10:21	08/02/24 18:28	207-08-9	
Chrysene	ND	ug/kg	8.5	1.3	1	08/01/24 10:21	08/02/24 18:28	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.5	1.7	1	08/01/24 10:21	08/02/24 18:28	53-70-3	
Fluoranthene	ND	ug/kg	8.5	5.7	1	08/01/24 10:21	08/02/24 18:28	206-44-0	
Fluorene	ND	ug/kg	17.0	8.8	1	08/01/24 10:21	08/02/24 18:28	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.5	3.3	1	08/01/24 10:21	08/02/24 18:28	193-39-5	
Naphthalene	ND	ug/kg	8.5	3.6	1	08/01/24 10:21	08/02/24 18:28	91-20-3	
Phenanthrene	ND	ug/kg	17.0	5.1	1	08/01/24 10:21	08/02/24 18:28	85-01-8	
Pyrene	ND	ug/kg	8.5	7.5	1	08/01/24 10:21	08/02/24 18:28	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%.	46-99		1	08/01/24 10:21	08/02/24 18:28	321-60-8	
Terphenyl-d14 (S)	84	%.	48-118		1	08/01/24 10:21	08/02/24 18:28	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	428	63.5	1	07/31/24 09:16	08/01/24 18:39	83-32-9	
Acenaphthylene	ND	ug/kg	428	128	1	07/31/24 09:16	08/01/24 18:39	208-96-8	
Anthracene	ND	ug/kg	428	98.2	1	07/31/24 09:16	08/01/24 18:39	120-12-7	
Azobenzene	ND	ug/kg	428	151	1	07/31/24 09:16	08/01/24 18:39	103-33-3	
Benzo(a)anthracene	ND	ug/kg	428	74.1	1	07/31/24 09:16	08/01/24 18:39	56-55-3	
Benzo(a)pyrene	ND	ug/kg	428	133	1	07/31/24 09:16	08/01/24 18:39	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 18:39	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	428	148	1	07/31/24 09:16	08/01/24 18:39	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-5(7-8)-01-1010 **Lab ID: 30704041010** Collected: 07/23/24 14:40 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	428	189	1	07/31/24 09:16	08/01/24 18:39	207-08-9	
Benzoic acid	ND	ug/kg	6410	2170	1	07/31/24 09:16	08/01/24 18:39	65-85-0	
Benzyl alcohol	ND	ug/kg	428	378	1	07/31/24 09:16	08/01/24 18:39	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	428	157	1	07/31/24 09:16	08/01/24 18:39	101-55-3	
Butylbenzylphthalate	ND	ug/kg	428	120	1	07/31/24 09:16	08/01/24 18:39	85-68-7	
Carbazole	ND	ug/kg	428	168	1	07/31/24 09:16	08/01/24 18:39	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	428	68.8	1	07/31/24 09:16	08/01/24 18:39	59-50-7	
4-Chloroaniline	ND	ug/kg	428	75.2	1	07/31/24 09:16	08/01/24 18:39	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	428	74.3	1	07/31/24 09:16	08/01/24 18:39	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	428	78.1	1	07/31/24 09:16	08/01/24 18:39	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	428	121	1	07/31/24 09:16	08/01/24 18:39	108-60-1	
2-Chloronaphthalene	ND	ug/kg	428	122	1	07/31/24 09:16	08/01/24 18:39	91-58-7	
2-Chlorophenol	ND	ug/kg	428	61.0	1	07/31/24 09:16	08/01/24 18:39	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	428	124	1	07/31/24 09:16	08/01/24 18:39	7005-72-3	
Chrysene	ND	ug/kg	428	63.4	1	07/31/24 09:16	08/01/24 18:39	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	428	163	1	07/31/24 09:16	08/01/24 18:39	53-70-3	
Dibenzofuran	ND	ug/kg	428	137	1	07/31/24 09:16	08/01/24 18:39	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	428	56.2	1	07/31/24 09:16	08/01/24 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	428	53.2	1	07/31/24 09:16	08/01/24 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	428	59.1	1	07/31/24 09:16	08/01/24 18:39	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	428	126	1	07/31/24 09:16	08/01/24 18:39	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	428	72.6	1	07/31/24 09:16	08/01/24 18:39	120-83-2	
Diethylphthalate	ND	ug/kg	428	151	1	07/31/24 09:16	08/01/24 18:39	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 18:39	105-67-9	
Dimethylphthalate	ND	ug/kg	428	132	1	07/31/24 09:16	08/01/24 18:39	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3420	3130	1	07/31/24 09:16	08/01/24 18:39	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	319	1	07/31/24 09:16	08/01/24 18:39	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	962	1	07/31/24 09:16	08/01/24 18:39	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 18:39	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	428	130	1	07/31/24 09:16	08/01/24 18:39	606-20-2	
Di-n-octylphthalate	ND	ug/kg	428	282	1	07/31/24 09:16	08/01/24 18:39	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	428	136	1	07/31/24 09:16	08/01/24 18:39	117-81-7	
Fluoranthene	ND	ug/kg	428	138	1	07/31/24 09:16	08/01/24 18:39	206-44-0	
Fluorene	ND	ug/kg	428	131	1	07/31/24 09:16	08/01/24 18:39	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	428	67.0	1	07/31/24 09:16	08/01/24 18:39	87-68-3	
Hexachlorobenzene	ND	ug/kg	428	123	1	07/31/24 09:16	08/01/24 18:39	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	428	206	1	07/31/24 09:16	08/01/24 18:39	77-47-4	L2
Hexachloroethane	ND	ug/kg	428	115	1	07/31/24 09:16	08/01/24 18:39	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	428	161	1	07/31/24 09:16	08/01/24 18:39	193-39-5	
Isophorone	ND	ug/kg	428	61.7	1	07/31/24 09:16	08/01/24 18:39	78-59-1	
1-Methylnaphthalene	ND	ug/kg	428	107	1	07/31/24 09:16	08/01/24 18:39	90-12-0	
2-Methylnaphthalene	ND	ug/kg	428	62.6	1	07/31/24 09:16	08/01/24 18:39	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	428	154	1	07/31/24 09:16	08/01/24 18:39	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	855	263	1	07/31/24 09:16	08/01/24 18:39		

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-5(7-8)-01-1010 **Lab ID: 30704041010** Collected: 07/23/24 14:40 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1070	149	1	07/31/24 09:16	08/01/24 18:39	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	279	1	07/31/24 09:16	08/01/24 18:39	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	600	1	07/31/24 09:16	08/01/24 18:39	100-01-6	CH
Nitrobenzene	ND	ug/kg	428	61.4	1	07/31/24 09:16	08/01/24 18:39	98-95-3	
2-Nitrophenol	ND	ug/kg	428	80.1	1	07/31/24 09:16	08/01/24 18:39	88-75-5	
4-Nitrophenol	ND	ug/kg	428	144	1	07/31/24 09:16	08/01/24 18:39	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	428	73.3	1	07/31/24 09:16	08/01/24 18:39	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	428	75.3	1	07/31/24 09:16	08/01/24 18:39	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	428	96.4	1	07/31/24 09:16	08/01/24 18:39	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	563	1	07/31/24 09:16	08/01/24 18:39	87-86-5	
Phenanthrene	ND	ug/kg	428	77.6	1	07/31/24 09:16	08/01/24 18:39	85-01-8	
Phenol	ND	ug/kg	428	127	1	07/31/24 09:16	08/01/24 18:39	108-95-2	
Pyrene	ND	ug/kg	428	156	1	07/31/24 09:16	08/01/24 18:39	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	428	116	1	07/31/24 09:16	08/01/24 18:39	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	126	1	07/31/24 09:16	08/01/24 18:39	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	428	112	1	07/31/24 09:16	08/01/24 18:39	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	72	%.	32-154		1	07/31/24 09:16	08/01/24 18:39	4165-60-0	
2-Fluorobiphenyl (S)	78	%.	50-144		1	07/31/24 09:16	08/01/24 18:39	321-60-8	
Terphenyl-d14 (S)	92	%.	57-146		1	07/31/24 09:16	08/01/24 18:39	1718-51-0	
Phenol-d6 (S)	80	%.	54-121		1	07/31/24 09:16	08/01/24 18:39	13127-88-3	
2-Fluorophenol (S)	74	%.	57-124		1	07/31/24 09:16	08/01/24 18:39	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	44-127		1	07/31/24 09:16	08/01/24 18:39	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**156**	ug/kg	53.5	35.9	1	07/30/24 12:18	07/30/24 18:18	67-64-1	CL
Benzene	ND	ug/kg	5.3	0.93	1	07/30/24 12:18	07/30/24 18:18	71-43-2	
Bromochloromethane	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 18:18	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 18:18	75-27-4	
Bromoform	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 18:18	75-25-2	
Bromomethane	ND	ug/kg	5.3	2.0	1	07/30/24 12:18	07/30/24 18:18	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	32.1	6.5	1	07/30/24 12:18	07/30/24 18:18		LS
2-Butanone (MEK)	**17.7**	ug/kg	10.7	2.8	1	07/30/24 12:18	07/30/24 18:18	78-93-3	
Carbon disulfide	ND	ug/kg	5.3	1.5	1	07/30/24 12:18	07/30/24 18:18	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 18:18	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	0.83	1	07/30/24 12:18	07/30/24 18:18	108-90-7	
Chloroethane	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 18:18	75-00-3	
Chloroform	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 18:18	67-66-3	
Chloromethane	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 18:18	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.3	0.85	1	07/30/24 12:18	07/30/24 18:18	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.3	0.63	1	07/30/24 12:18	07/30/24 18:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	0.70	1	07/30/24 12:18	07/30/24 18:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	0.76	1	07/30/24 12:18	07/30/24 18:18	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-5(7-8)-01-1010 **Lab ID: 30704041010** Collected: 07/23/24 14:40 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.3	1.3	1	07/30/24 12:18	07/30/24 18:18	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1.4	1	07/30/24 12:18	07/30/24 18:18	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.7	2.6	1	07/30/24 12:18	07/30/24 18:18	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.3	2.0	1	07/30/24 12:18	07/30/24 18:18	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 18:18	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1.4	1	07/30/24 12:18	07/30/24 18:18	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	0.77	1	07/30/24 12:18	07/30/24 18:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	0.53	1	07/30/24 12:18	07/30/24 18:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 18:18	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 18:18	100-41-4	
2-Hexanone	ND	ug/kg	10.7	2.5	1	07/30/24 12:18	07/30/24 18:18	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 18:18	98-82-8	
Methylene Chloride	ND	ug/kg	5.3	4.5	1	07/30/24 12:18	07/30/24 18:18	75-09-2	CL
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.7	1.2	1	07/30/24 12:18	07/30/24 18:18	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	0.72	1	07/30/24 12:18	07/30/24 18:18	1634-04-4	
Naphthalene	ND	ug/kg	5.3	4.2	1	07/30/24 12:18	07/30/24 18:18	91-20-3	
Styrene	ND	ug/kg	5.3	1.5	1	07/30/24 12:18	07/30/24 18:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	0.63	1	07/30/24 12:18	07/30/24 18:18	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1.9	1	07/30/24 12:18	07/30/24 18:18	127-18-4	
Toluene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 18:18	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	2.1	1	07/30/24 12:18	07/30/24 18:18	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 18:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 18:18	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 18:18	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	2.6	1	07/30/24 12:18	07/30/24 18:18	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 18:18	108-67-8	
Vinyl chloride	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 18:18	75-01-4	
Xylene (Total)	ND	ug/kg	16.0	7.3	1	07/30/24 12:18	07/30/24 18:18	1330-20-7	LS
m&p-Xylene	ND	ug/kg	10.7	6.2	1	07/30/24 12:18	07/30/24 18:18	179601-23-1	L2
o-Xylene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 18:18	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 18:18	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 18:18	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	07/30/24 12:18	07/30/24 18:18	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130		1	07/30/24 12:18	07/30/24 18:18	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**22.5**	%	0.10	0.10	1		07/30/24 12:46		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-6(1-2)-01-1011 **Lab ID: 30704041011** Collected: 07/23/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**7.1**	mg/kg	5.9	0.41	1	07/29/24 11:40	07/31/24 14:35	7440-38-2	
Barium	**71.2**	mg/kg	5.9	0.43	1	07/29/24 11:40	07/31/24 14:35	7440-39-3	
Cadmium	**0.17J**	mg/kg	1.2	0.17	1	07/29/24 11:40	07/31/24 14:35	7440-43-9	
Chromium	**18.4**	mg/kg	5.9	0.75	1	07/29/24 11:40	07/31/24 14:35	7440-47-3	
Lead	**12.3**	mg/kg	5.9	0.61	1	07/29/24 11:40	07/31/24 14:35	7439-92-1	
Selenium	ND	mg/kg	5.9	1.2	1	07/29/24 11:40	07/31/24 14:35	7782-49-2	
Silver	ND	mg/kg	3.0	0.42	1	07/29/24 11:40	07/31/24 14:35	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	ND	mg/kg	0.024	0.023	1	07/29/24 11:10	07/30/24 12:10	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.8	2.1	1	08/01/24 10:21	08/02/24 18:47	83-32-9	
Acenaphthylene	ND	ug/kg	7.8	1.6	1	08/01/24 10:21	08/02/24 18:47	208-96-8	
Anthracene	ND	ug/kg	7.8	1.6	1	08/01/24 10:21	08/02/24 18:47	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.8	2.1	1	08/01/24 10:21	08/02/24 18:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.8	3.4	1	08/01/24 10:21	08/02/24 18:47	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.8	2.2	1	08/01/24 10:21	08/02/24 18:47	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.8	1.2	1	08/01/24 10:21	08/02/24 18:47	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.8	1.3	1	08/01/24 10:21	08/02/24 18:47	207-08-9	
Chrysene	ND	ug/kg	7.8	1.2	1	08/01/24 10:21	08/02/24 18:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.8	1.5	1	08/01/24 10:21	08/02/24 18:47	53-70-3	
Fluoranthene	ND	ug/kg	7.8	5.3	1	08/01/24 10:21	08/02/24 18:47	206-44-0	
Fluorene	ND	ug/kg	15.6	8.1	1	08/01/24 10:21	08/02/24 18:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.8	3.0	1	08/01/24 10:21	08/02/24 18:47	193-39-5	
Naphthalene	ND	ug/kg	7.8	3.3	1	08/01/24 10:21	08/02/24 18:47	91-20-3	
Phenanthrene	ND	ug/kg	15.6	4.7	1	08/01/24 10:21	08/02/24 18:47	85-01-8	
Pyrene	ND	ug/kg	7.8	6.9	1	08/01/24 10:21	08/02/24 18:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	81	%.	46-99		1	08/01/24 10:21	08/02/24 18:47	321-60-8	
Terphenyl-d14 (S)	99	%.	48-118		1	08/01/24 10:21	08/02/24 18:47	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	395	58.7	1	07/31/24 09:16	08/01/24 19:01	83-32-9	
Acenaphthylene	ND	ug/kg	395	119	1	07/31/24 09:16	08/01/24 19:01	208-96-8	
Anthracene	ND	ug/kg	395	90.9	1	07/31/24 09:16	08/01/24 19:01	120-12-7	
Azobenzene	ND	ug/kg	395	140	1	07/31/24 09:16	08/01/24 19:01	103-33-3	
Benzo(a)anthracene	ND	ug/kg	395	68.5	1	07/31/24 09:16	08/01/24 19:01	56-55-3	
Benzo(a)pyrene	ND	ug/kg	395	123	1	07/31/24 09:16	08/01/24 19:01	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 19:01	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	395	137	1	07/31/24 09:16	08/01/24 19:01	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-6(1-2)-01-1011 **Lab ID: 30704041011** Collected: 07/23/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	395	175	1	07/31/24 09:16	08/01/24 19:01	207-08-9	
Benzoic acid	ND	ug/kg	5930	2000	1	07/31/24 09:16	08/01/24 19:01	65-85-0	
Benzyl alcohol	ND	ug/kg	395	350	1	07/31/24 09:16	08/01/24 19:01	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	395	145	1	07/31/24 09:16	08/01/24 19:01	101-55-3	
Butylbenzylphthalate	ND	ug/kg	395	111	1	07/31/24 09:16	08/01/24 19:01	85-68-7	
Carbazole	ND	ug/kg	395	155	1	07/31/24 09:16	08/01/24 19:01	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	395	63.7	1	07/31/24 09:16	08/01/24 19:01	59-50-7	
4-Chloroaniline	ND	ug/kg	395	69.6	1	07/31/24 09:16	08/01/24 19:01	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	395	68.8	1	07/31/24 09:16	08/01/24 19:01	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	395	72.2	1	07/31/24 09:16	08/01/24 19:01	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	395	112	1	07/31/24 09:16	08/01/24 19:01	108-60-1	
2-Chloronaphthalene	ND	ug/kg	395	113	1	07/31/24 09:16	08/01/24 19:01	91-58-7	
2-Chlorophenol	ND	ug/kg	395	56.4	1	07/31/24 09:16	08/01/24 19:01	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	395	114	1	07/31/24 09:16	08/01/24 19:01	7005-72-3	
Chrysene	ND	ug/kg	395	58.6	1	07/31/24 09:16	08/01/24 19:01	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	395	150	1	07/31/24 09:16	08/01/24 19:01	53-70-3	
Dibenzofuran	ND	ug/kg	395	127	1	07/31/24 09:16	08/01/24 19:01	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	395	52.0	1	07/31/24 09:16	08/01/24 19:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	395	49.2	1	07/31/24 09:16	08/01/24 19:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	395	54.6	1	07/31/24 09:16	08/01/24 19:01	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	395	116	1	07/31/24 09:16	08/01/24 19:01	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	395	67.2	1	07/31/24 09:16	08/01/24 19:01	120-83-2	
Diethylphthalate	ND	ug/kg	395	139	1	07/31/24 09:16	08/01/24 19:01	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 19:01	105-67-9	
Dimethylphthalate	ND	ug/kg	395	122	1	07/31/24 09:16	08/01/24 19:01	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3160	2890	1	07/31/24 09:16	08/01/24 19:01	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	989	295	1	07/31/24 09:16	08/01/24 19:01	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	989	889	1	07/31/24 09:16	08/01/24 19:01	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 19:01	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	395	120	1	07/31/24 09:16	08/01/24 19:01	606-20-2	
Di-n-octylphthalate	ND	ug/kg	395	260	1	07/31/24 09:16	08/01/24 19:01	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	395	126	1	07/31/24 09:16	08/01/24 19:01	117-81-7	
Fluoranthene	ND	ug/kg	395	127	1	07/31/24 09:16	08/01/24 19:01	206-44-0	
Fluorene	ND	ug/kg	395	121	1	07/31/24 09:16	08/01/24 19:01	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	395	62.0	1	07/31/24 09:16	08/01/24 19:01	87-68-3	
Hexachlorobenzene	ND	ug/kg	395	114	1	07/31/24 09:16	08/01/24 19:01	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	395	191	1	07/31/24 09:16	08/01/24 19:01	77-47-4	L2
Hexachloroethane	ND	ug/kg	395	107	1	07/31/24 09:16	08/01/24 19:01	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	149	1	07/31/24 09:16	08/01/24 19:01	193-39-5	
Isophorone	ND	ug/kg	395	57.1	1	07/31/24 09:16	08/01/24 19:01	78-59-1	
1-Methylnaphthalene	ND	ug/kg	395	99.4	1	07/31/24 09:16	08/01/24 19:01	90-12-0	
2-Methylnaphthalene	ND	ug/kg	395	57.9	1	07/31/24 09:16	08/01/24 19:01	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	395	142	1	07/31/24 09:16	08/01/24 19:01	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	791	243	1	07/31/24 09:16	08/01/24 19:01		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-6(1-2)-01-1011 **Lab ID: 30704041011** Collected: 07/23/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	989	137	1	07/31/24 09:16	08/01/24 19:01	88-74-4	
3-Nitroaniline	ND	ug/kg	989	258	1	07/31/24 09:16	08/01/24 19:01	99-09-2	
4-Nitroaniline	ND	ug/kg	989	555	1	07/31/24 09:16	08/01/24 19:01	100-01-6	CH
Nitrobenzene	ND	ug/kg	395	56.8	1	07/31/24 09:16	08/01/24 19:01	98-95-3	
2-Nitrophenol	ND	ug/kg	395	74.1	1	07/31/24 09:16	08/01/24 19:01	88-75-5	
4-Nitrophenol	ND	ug/kg	395	133	1	07/31/24 09:16	08/01/24 19:01	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	395	67.8	1	07/31/24 09:16	08/01/24 19:01	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	395	69.6	1	07/31/24 09:16	08/01/24 19:01	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	395	89.2	1	07/31/24 09:16	08/01/24 19:01	86-30-6	
Pentachlorophenol	ND	ug/kg	989	521	1	07/31/24 09:16	08/01/24 19:01	87-86-5	
Phenanthrene	ND	ug/kg	395	71.8	1	07/31/24 09:16	08/01/24 19:01	85-01-8	
Phenol	ND	ug/kg	395	117	1	07/31/24 09:16	08/01/24 19:01	108-95-2	
Pyrene	ND	ug/kg	395	145	1	07/31/24 09:16	08/01/24 19:01	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	395	107	1	07/31/24 09:16	08/01/24 19:01	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	989	117	1	07/31/24 09:16	08/01/24 19:01	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	395	103	1	07/31/24 09:16	08/01/24 19:01	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78	%.	32-154		1	07/31/24 09:16	08/01/24 19:01	4165-60-0	
2-Fluorobiphenyl (S)	83	%.	50-144		1	07/31/24 09:16	08/01/24 19:01	321-60-8	
Terphenyl-d14 (S)	102	%.	57-146		1	07/31/24 09:16	08/01/24 19:01	1718-51-0	
Phenol-d6 (S)	85	%.	54-121		1	07/31/24 09:16	08/01/24 19:01	13127-88-3	
2-Fluorophenol (S)	80	%.	57-124		1	07/31/24 09:16	08/01/24 19:01	367-12-4	
2,4,6-Tribromophenol (S)	90	%.	44-127		1	07/31/24 09:16	08/01/24 19:01	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**222**	ug/kg	44.2	29.7	1	07/30/24 12:18	07/30/24 18:46	67-64-1	CL
Benzene	ND	ug/kg	4.4	0.77	1	07/30/24 12:18	07/30/24 18:46	71-43-2	
Bromochloromethane	ND	ug/kg	4.4	0.96	1	07/30/24 12:18	07/30/24 18:46	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	0.96	1	07/30/24 12:18	07/30/24 18:46	75-27-4	
Bromoform	ND	ug/kg	4.4	1.8	1	07/30/24 12:18	07/30/24 18:46	75-25-2	
Bromomethane	ND	ug/kg	4.4	1.6	1	07/30/24 12:18	07/30/24 18:46	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	26.5	5.4	1	07/30/24 12:18	07/30/24 18:46		LS
2-Butanone (MEK)	**20.0**	ug/kg	8.8	2.3	1	07/30/24 12:18	07/30/24 18:46	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	1.3	1	07/30/24 12:18	07/30/24 18:46	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1.5	1	07/30/24 12:18	07/30/24 18:46	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	0.69	1	07/30/24 12:18	07/30/24 18:46	108-90-7	
Chloroethane	ND	ug/kg	4.4	1.8	1	07/30/24 12:18	07/30/24 18:46	75-00-3	
Chloroform	ND	ug/kg	4.4	1.3	1	07/30/24 12:18	07/30/24 18:46	67-66-3	
Chloromethane	ND	ug/kg	4.4	1.5	1	07/30/24 12:18	07/30/24 18:46	74-87-3	CL
Dibromochloromethane	ND	ug/kg	4.4	0.70	1	07/30/24 12:18	07/30/24 18:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.4	0.52	1	07/30/24 12:18	07/30/24 18:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	0.57	1	07/30/24 12:18	07/30/24 18:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	0.63	1	07/30/24 12:18	07/30/24 18:46	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-6(1-2)-01-1011 **Lab ID: 30704041011** Collected: 07/23/24 15:15 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.4	1.1	1	07/30/24 12:18	07/30/24 18:46	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1.1	1	07/30/24 12:18	07/30/24 18:46	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	8.8	2.1	1	07/30/24 12:18	07/30/24 18:46	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.4	1.6	1	07/30/24 12:18	07/30/24 18:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1.0	1	07/30/24 12:18	07/30/24 18:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1.1	1	07/30/24 12:18	07/30/24 18:46	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	0.64	1	07/30/24 12:18	07/30/24 18:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	0.44	1	07/30/24 12:18	07/30/24 18:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	0.92	1	07/30/24 12:18	07/30/24 18:46	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	0.95	1	07/30/24 12:18	07/30/24 18:46	100-41-4	
2-Hexanone	**14.2**	ug/kg	8.8	2.0	1	07/30/24 12:18	07/30/24 18:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1.0	1	07/30/24 12:18	07/30/24 18:46	98-82-8	
Methylene Chloride	ND	ug/kg	4.4	3.7	1	07/30/24 12:18	07/30/24 18:46	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	0.99	1	07/30/24 12:18	07/30/24 18:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	0.59	1	07/30/24 12:18	07/30/24 18:46	1634-04-4	
Naphthalene	ND	ug/kg	4.4	3.5	1	07/30/24 12:18	07/30/24 18:46	91-20-3	
Styrene	ND	ug/kg	4.4	1.3	1	07/30/24 12:18	07/30/24 18:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	0.52	1	07/30/24 12:18	07/30/24 18:46	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1.5	1	07/30/24 12:18	07/30/24 18:46	127-18-4	
Toluene	ND	ug/kg	4.4	0.88	1	07/30/24 12:18	07/30/24 18:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1.7	1	07/30/24 12:18	07/30/24 18:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1.3	1	07/30/24 12:18	07/30/24 18:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	0.88	1	07/30/24 12:18	07/30/24 18:46	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1.3	1	07/30/24 12:18	07/30/24 18:46	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	2.2	1	07/30/24 12:18	07/30/24 18:46	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1.8	1	07/30/24 12:18	07/30/24 18:46	108-67-8	
Vinyl chloride	ND	ug/kg	4.4	1.9	1	07/30/24 12:18	07/30/24 18:46	75-01-4	
Xylene (Total)	ND	ug/kg	13.3	6.0	1	07/30/24 12:18	07/30/24 18:46	1330-20-7	LS
m&p-Xylene	ND	ug/kg	8.8	5.1	1	07/30/24 12:18	07/30/24 18:46	179601-23-1	L2
o-Xylene	ND	ug/kg	4.4	0.95	1	07/30/24 12:18	07/30/24 18:46	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	07/30/24 12:18	07/30/24 18:46	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	07/30/24 12:18	07/30/24 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	07/30/24 12:18	07/30/24 18:46	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 18:46	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**16.5**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-6(7-8)-01-1012 **Lab ID: 30704041012** Collected: 07/23/24 15:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**18.5**	mg/kg	6.5	0.45	1	07/29/24 11:40	07/31/24 14:47	7440-38-2	
Barium	**62.6**	mg/kg	6.5	0.47	1	07/29/24 11:40	07/31/24 14:47	7440-39-3	
Cadmium	**0.83J**	mg/kg	1.3	0.18	1	07/29/24 11:40	07/31/24 14:47	7440-43-9	
Chromium	**24.7**	mg/kg	6.5	0.82	1	07/29/24 11:40	07/31/24 14:47	7440-47-3	
Lead	**24.7**	mg/kg	6.5	0.67	1	07/29/24 11:40	07/31/24 14:47	7439-92-1	
Selenium	ND	mg/kg	6.5	1.3	1	07/29/24 11:40	07/31/24 14:47	7782-49-2	
Silver	ND	mg/kg	3.3	0.46	1	07/29/24 11:40	07/31/24 14:47	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.042**	mg/kg	0.026	0.025	1	07/29/24 11:10	07/30/24 12:12	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.8	2.3	1	08/01/24 10:21	08/02/24 19:07	83-32-9	
Acenaphthylene	ND	ug/kg	8.8	1.8	1	08/01/24 10:21	08/02/24 19:07	208-96-8	
Anthracene	ND	ug/kg	8.8	1.8	1	08/01/24 10:21	08/02/24 19:07	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.8	2.3	1	08/01/24 10:21	08/02/24 19:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.8	3.9	1	08/01/24 10:21	08/02/24 19:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.8	2.5	1	08/01/24 10:21	08/02/24 19:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.8	1.3	1	08/01/24 10:21	08/02/24 19:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.8	1.5	1	08/01/24 10:21	08/02/24 19:07	207-08-9	
Chrysene	ND	ug/kg	8.8	1.4	1	08/01/24 10:21	08/02/24 19:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.8	1.7	1	08/01/24 10:21	08/02/24 19:07	53-70-3	
Fluoranthene	ND	ug/kg	8.8	5.9	1	08/01/24 10:21	08/02/24 19:07	206-44-0	
Fluorene	ND	ug/kg	17.6	9.1	1	08/01/24 10:21	08/02/24 19:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.8	3.4	1	08/01/24 10:21	08/02/24 19:07	193-39-5	
Naphthalene	ND	ug/kg	8.8	3.8	1	08/01/24 10:21	08/02/24 19:07	91-20-3	
Phenanthrene	ND	ug/kg	17.6	5.3	1	08/01/24 10:21	08/02/24 19:07	85-01-8	
Pyrene	ND	ug/kg	8.8	7.8	1	08/01/24 10:21	08/02/24 19:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%.	46-99		1	08/01/24 10:21	08/02/24 19:07	321-60-8	
Terphenyl-d14 (S)	89	%.	48-118		1	08/01/24 10:21	08/02/24 19:07	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	430	63.8	1	07/31/24 09:16	08/01/24 19:23	83-32-9	
Acenaphthylene	ND	ug/kg	430	129	1	07/31/24 09:16	08/01/24 19:23	208-96-8	
Anthracene	ND	ug/kg	430	98.7	1	07/31/24 09:16	08/01/24 19:23	120-12-7	
Azobenzene	ND	ug/kg	430	152	1	07/31/24 09:16	08/01/24 19:23	103-33-3	
Benzo(a)anthracene	ND	ug/kg	430	74.4	1	07/31/24 09:16	08/01/24 19:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	430	134	1	07/31/24 09:16	08/01/24 19:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	430	131	1	07/31/24 09:16	08/01/24 19:23	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	430	149	1	07/31/24 09:16	08/01/24 19:23	191-24-2	

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(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-6(7-8)-01-1012 **Lab ID: 30704041012** Collected: 07/23/24 15:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	430	190	1	07/31/24 09:16	08/01/24 19:23	207-08-9	
Benzoic acid	ND	ug/kg	6440	2180	1	07/31/24 09:16	08/01/24 19:23	65-85-0	
Benzyl alcohol	ND	ug/kg	430	380	1	07/31/24 09:16	08/01/24 19:23	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	430	158	1	07/31/24 09:16	08/01/24 19:23	101-55-3	
Butylbenzylphthalate	ND	ug/kg	430	121	1	07/31/24 09:16	08/01/24 19:23	85-68-7	
Carbazole	ND	ug/kg	430	169	1	07/31/24 09:16	08/01/24 19:23	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	430	69.1	1	07/31/24 09:16	08/01/24 19:23	59-50-7	
4-Chloroaniline	ND	ug/kg	430	75.6	1	07/31/24 09:16	08/01/24 19:23	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	430	74.7	1	07/31/24 09:16	08/01/24 19:23	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	430	78.4	1	07/31/24 09:16	08/01/24 19:23	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	430	122	1	07/31/24 09:16	08/01/24 19:23	108-60-1	
2-Chloronaphthalene	ND	ug/kg	430	123	1	07/31/24 09:16	08/01/24 19:23	91-58-7	
2-Chlorophenol	ND	ug/kg	430	61.3	1	07/31/24 09:16	08/01/24 19:23	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	430	124	1	07/31/24 09:16	08/01/24 19:23	7005-72-3	
Chrysene	ND	ug/kg	430	63.7	1	07/31/24 09:16	08/01/24 19:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	430	163	1	07/31/24 09:16	08/01/24 19:23	53-70-3	
Dibenzofuran	ND	ug/kg	430	138	1	07/31/24 09:16	08/01/24 19:23	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	430	56.5	1	07/31/24 09:16	08/01/24 19:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	430	53.4	1	07/31/24 09:16	08/01/24 19:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	430	59.3	1	07/31/24 09:16	08/01/24 19:23	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	430	126	1	07/31/24 09:16	08/01/24 19:23	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	430	72.9	1	07/31/24 09:16	08/01/24 19:23	120-83-2	
Diethylphthalate	ND	ug/kg	430	151	1	07/31/24 09:16	08/01/24 19:23	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	430	131	1	07/31/24 09:16	08/01/24 19:23	105-67-9	
Dimethylphthalate	ND	ug/kg	430	132	1	07/31/24 09:16	08/01/24 19:23	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3440	3140	1	07/31/24 09:16	08/01/24 19:23	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	320	1	07/31/24 09:16	08/01/24 19:23	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	966	1	07/31/24 09:16	08/01/24 19:23	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	430	130	1	07/31/24 09:16	08/01/24 19:23	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	430	131	1	07/31/24 09:16	08/01/24 19:23	606-20-2	
Di-n-octylphthalate	ND	ug/kg	430	283	1	07/31/24 09:16	08/01/24 19:23	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	430	137	1	07/31/24 09:16	08/01/24 19:23	117-81-7	
Fluoranthene	ND	ug/kg	430	138	1	07/31/24 09:16	08/01/24 19:23	206-44-0	
Fluorene	ND	ug/kg	430	132	1	07/31/24 09:16	08/01/24 19:23	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	430	67.3	1	07/31/24 09:16	08/01/24 19:23	87-68-3	
Hexachlorobenzene	ND	ug/kg	430	123	1	07/31/24 09:16	08/01/24 19:23	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	430	207	1	07/31/24 09:16	08/01/24 19:23	77-47-4	L2
Hexachloroethane	ND	ug/kg	430	116	1	07/31/24 09:16	08/01/24 19:23	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	430	162	1	07/31/24 09:16	08/01/24 19:23	193-39-5	
Isophorone	ND	ug/kg	430	62.0	1	07/31/24 09:16	08/01/24 19:23	78-59-1	
1-Methylnaphthalene	ND	ug/kg	430	108	1	07/31/24 09:16	08/01/24 19:23	90-12-0	
2-Methylnaphthalene	ND	ug/kg	430	62.8	1	07/31/24 09:16	08/01/24 19:23	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	430	155	1	07/31/24 09:16	08/01/24 19:23	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	859	264	1	07/31/24 09:16	08/01/24 19:23		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-6(7-8)-01-1012 **Lab ID: 30704041012** Collected: 07/23/24 15:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1070	149	1	07/31/24 09:16	08/01/24 19:23	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	280	1	07/31/24 09:16	08/01/24 19:23	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	603	1	07/31/24 09:16	08/01/24 19:23	100-01-6	CH
Nitrobenzene	ND	ug/kg	430	61.7	1	07/31/24 09:16	08/01/24 19:23	98-95-3	
2-Nitrophenol	ND	ug/kg	430	80.5	1	07/31/24 09:16	08/01/24 19:23	88-75-5	
4-Nitrophenol	ND	ug/kg	430	144	1	07/31/24 09:16	08/01/24 19:23	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	430	73.7	1	07/31/24 09:16	08/01/24 19:23	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	430	75.6	1	07/31/24 09:16	08/01/24 19:23	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	430	96.9	1	07/31/24 09:16	08/01/24 19:23	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	566	1	07/31/24 09:16	08/01/24 19:23	87-86-5	
Phenanthrene	ND	ug/kg	430	77.9	1	07/31/24 09:16	08/01/24 19:23	85-01-8	
Phenol	ND	ug/kg	430	127	1	07/31/24 09:16	08/01/24 19:23	108-95-2	
Pyrene	ND	ug/kg	430	157	1	07/31/24 09:16	08/01/24 19:23	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	430	116	1	07/31/24 09:16	08/01/24 19:23	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	127	1	07/31/24 09:16	08/01/24 19:23	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	430	112	1	07/31/24 09:16	08/01/24 19:23	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	32-154		1	07/31/24 09:16	08/01/24 19:23	4165-60-0	
2-Fluorobiphenyl (S)	83	%.	50-144		1	07/31/24 09:16	08/01/24 19:23	321-60-8	
Terphenyl-d14 (S)	99	%.	57-146		1	07/31/24 09:16	08/01/24 19:23	1718-51-0	
Phenol-d6 (S)	81	%.	54-121		1	07/31/24 09:16	08/01/24 19:23	13127-88-3	
2-Fluorophenol (S)	78	%.	57-124		1	07/31/24 09:16	08/01/24 19:23	367-12-4	
2,4,6-Tribromophenol (S)	84	%.	44-127		1	07/31/24 09:16	08/01/24 19:23	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**46.6J**	ug/kg	53.6	36.1	1	07/30/24 12:18	07/30/24 19:13	67-64-1	CL
Benzene	ND	ug/kg	5.4	0.93	1	07/30/24 12:18	07/30/24 19:13	71-43-2	
Bromochloromethane	ND	ug/kg	5.4	1.2	1	07/30/24 12:18	07/30/24 19:13	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1.2	1	07/30/24 12:18	07/30/24 19:13	75-27-4	
Bromoform	ND	ug/kg	5.4	2.2	1	07/30/24 12:18	07/30/24 19:13	75-25-2	
Bromomethane	ND	ug/kg	5.4	2.0	1	07/30/24 12:18	07/30/24 19:13	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	32.2	6.6	1	07/30/24 12:18	07/30/24 19:13		LS
2-Butanone (MEK)	ND	ug/kg	10.7	2.8	1	07/30/24 12:18	07/30/24 19:13	78-93-3	
Carbon disulfide	ND	ug/kg	5.4	1.5	1	07/30/24 12:18	07/30/24 19:13	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1.8	1	07/30/24 12:18	07/30/24 19:13	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	0.84	1	07/30/24 12:18	07/30/24 19:13	108-90-7	
Chloroethane	ND	ug/kg	5.4	2.2	1	07/30/24 12:18	07/30/24 19:13	75-00-3	
Chloroform	ND	ug/kg	5.4	1.6	1	07/30/24 12:18	07/30/24 19:13	67-66-3	
Chloromethane	ND	ug/kg	5.4	1.8	1	07/30/24 12:18	07/30/24 19:13	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.4	0.85	1	07/30/24 12:18	07/30/24 19:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.4	0.63	1	07/30/24 12:18	07/30/24 19:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	0.70	1	07/30/24 12:18	07/30/24 19:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	0.76	1	07/30/24 12:18	07/30/24 19:13	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-6(7-8)-01-1012 **Lab ID: 30704041012** Collected: 07/23/24 15:30 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.4	1.4	1	07/30/24 12:18	07/30/24 19:13	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1.4	1	07/30/24 12:18	07/30/24 19:13	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.7	2.6	1	07/30/24 12:18	07/30/24 19:13	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.4	2.0	1	07/30/24 12:18	07/30/24 19:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1.2	1	07/30/24 12:18	07/30/24 19:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1.4	1	07/30/24 12:18	07/30/24 19:13	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	0.77	1	07/30/24 12:18	07/30/24 19:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	0.54	1	07/30/24 12:18	07/30/24 19:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1.1	1	07/30/24 12:18	07/30/24 19:13	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1.2	1	07/30/24 12:18	07/30/24 19:13	100-41-4	
2-Hexanone	ND	ug/kg	10.7	2.5	1	07/30/24 12:18	07/30/24 19:13	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1.2	1	07/30/24 12:18	07/30/24 19:13	98-82-8	
Methylene Chloride	ND	ug/kg	5.4	4.5	1	07/30/24 12:18	07/30/24 19:13	75-09-2	CL
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.7	1.2	1	07/30/24 12:18	07/30/24 19:13	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	0.72	1	07/30/24 12:18	07/30/24 19:13	1634-04-4	
Naphthalene	ND	ug/kg	5.4	4.3	1	07/30/24 12:18	07/30/24 19:13	91-20-3	
Styrene	ND	ug/kg	5.4	1.5	1	07/30/24 12:18	07/30/24 19:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	0.63	1	07/30/24 12:18	07/30/24 19:13	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1.9	1	07/30/24 12:18	07/30/24 19:13	127-18-4	
Toluene	ND	ug/kg	5.4	1.1	1	07/30/24 12:18	07/30/24 19:13	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	2.1	1	07/30/24 12:18	07/30/24 19:13	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1.6	1	07/30/24 12:18	07/30/24 19:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1.1	1	07/30/24 12:18	07/30/24 19:13	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1.6	1	07/30/24 12:18	07/30/24 19:13	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	2.6	1	07/30/24 12:18	07/30/24 19:13	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	2.2	1	07/30/24 12:18	07/30/24 19:13	108-67-8	
Vinyl chloride	ND	ug/kg	5.4	2.3	1	07/30/24 12:18	07/30/24 19:13	75-01-4	
Xylene (Total)	ND	ug/kg	16.1	7.3	1	07/30/24 12:18	07/30/24 19:13	1330-20-7	LS
m&p-Xylene	ND	ug/kg	10.7	6.2	1	07/30/24 12:18	07/30/24 19:13	179601-23-1	L2
o-Xylene	ND	ug/kg	5.4	1.1	1	07/30/24 12:18	07/30/24 19:13	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 19:13	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 19:13	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%.	70-130		1	07/30/24 12:18	07/30/24 19:13	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 19:13	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**24.6**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-7(1-2)-01-1013 **Lab ID: 30704041013** Collected: 07/24/24 10:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**5.7J**	mg/kg	6.2	0.43	1	07/29/24 11:40	07/31/24 14:49	7440-38-2	
Barium	**54.5**	mg/kg	6.2	0.45	1	07/29/24 11:40	07/31/24 14:49	7440-39-3	
Cadmium	**0.18J**	mg/kg	1.2	0.17	1	07/29/24 11:40	07/31/24 14:49	7440-43-9	
Chromium	**17.1**	mg/kg	6.2	0.78	1	07/29/24 11:40	07/31/24 14:49	7440-47-3	
Lead	**12.1**	mg/kg	6.2	0.63	1	07/29/24 11:40	07/31/24 14:49	7439-92-1	
Selenium	ND	mg/kg	6.2	1.2	1	07/29/24 11:40	07/31/24 14:49	7782-49-2	
Silver	ND	mg/kg	3.1	0.44	1	07/29/24 11:40	07/31/24 14:49	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	ND	mg/kg	0.024	0.023	1	07/29/24 11:10	07/30/24 12:19	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.1	2.1	1	08/01/24 10:21	08/02/24 19:26	83-32-9	
Acenaphthylene	ND	ug/kg	8.1	1.7	1	08/01/24 10:21	08/02/24 19:26	208-96-8	
Anthracene	ND	ug/kg	8.1	1.6	1	08/01/24 10:21	08/02/24 19:26	120-12-7	
Benzo(a)anthracene	**6.7J**	ug/kg	8.1	2.1	1	08/01/24 10:21	08/02/24 19:26	56-55-3	
Benzo(a)pyrene	**7.5J**	ug/kg	8.1	3.5	1	08/01/24 10:21	08/02/24 19:26	50-32-8	
Benzo(b)fluoranthene	**16.4**	ug/kg	8.1	2.3	1	08/01/24 10:21	08/02/24 19:26	205-99-2	lp
Benzo(g,h,i)perylene	**4.3J**	ug/kg	8.1	1.2	1	08/01/24 10:21	08/02/24 19:26	191-24-2	
Benzo(k)fluoranthene	**15.4**	ug/kg	8.1	1.4	1	08/01/24 10:21	08/02/24 19:26	207-08-9	lp
Chrysene	**8.1**	ug/kg	8.1	1.3	1	08/01/24 10:21	08/02/24 19:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.1	1.6	1	08/01/24 10:21	08/02/24 19:26	53-70-3	
Fluoranthene	**18.6**	ug/kg	8.1	5.4	1	08/01/24 10:21	08/02/24 19:26	206-44-0	
Fluorene	ND	ug/kg	16.1	8.3	1	08/01/24 10:21	08/02/24 19:26	86-73-7	
Indeno(1,2,3-cd)pyrene	**3.9J**	ug/kg	8.1	3.1	1	08/01/24 10:21	08/02/24 19:26	193-39-5	
Naphthalene	ND	ug/kg	8.1	3.5	1	08/01/24 10:21	08/02/24 19:26	91-20-3	
Phenanthrene	**6.2J**	ug/kg	16.1	4.9	1	08/01/24 10:21	08/02/24 19:26	85-01-8	
Pyrene	**13.4**	ug/kg	8.1	7.1	1	08/01/24 10:21	08/02/24 19:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82	%.	46-99		1	08/01/24 10:21	08/02/24 19:26	321-60-8	
Terphenyl-d14 (S)	98	%.	48-118		1	08/01/24 10:21	08/02/24 19:26	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	401	59.6	1	07/31/24 09:16	08/01/24 19:45	83-32-9	
Acenaphthylene	ND	ug/kg	401	121	1	07/31/24 09:16	08/01/24 19:45	208-96-8	
Anthracene	ND	ug/kg	401	92.2	1	07/31/24 09:16	08/01/24 19:45	120-12-7	
Azobenzene	ND	ug/kg	401	142	1	07/31/24 09:16	08/01/24 19:45	103-33-3	
Benzo(a)anthracene	ND	ug/kg	401	69.5	1	07/31/24 09:16	08/01/24 19:45	56-55-3	
Benzo(a)pyrene	ND	ug/kg	401	125	1	07/31/24 09:16	08/01/24 19:45	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	401	122	1	07/31/24 09:16	08/01/24 19:45	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	401	139	1	07/31/24 09:16	08/01/24 19:45	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-7(1-2)-01-1013 **Lab ID: 30704041013** Collected: 07/24/24 10:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	401	177	1	07/31/24 09:16	08/01/24 19:45	207-08-9	
Benzoic acid	ND	ug/kg	6020	2030	1	07/31/24 09:16	08/01/24 19:45	65-85-0	
Benzyl alcohol	ND	ug/kg	401	355	1	07/31/24 09:16	08/01/24 19:45	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	401	148	1	07/31/24 09:16	08/01/24 19:45	101-55-3	
Butylbenzylphthalate	ND	ug/kg	401	113	1	07/31/24 09:16	08/01/24 19:45	85-68-7	
Carbazole	ND	ug/kg	401	158	1	07/31/24 09:16	08/01/24 19:45	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	401	64.6	1	07/31/24 09:16	08/01/24 19:45	59-50-7	
4-Chloroaniline	ND	ug/kg	401	70.6	1	07/31/24 09:16	08/01/24 19:45	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	401	69.8	1	07/31/24 09:16	08/01/24 19:45	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	401	73.3	1	07/31/24 09:16	08/01/24 19:45	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	401	114	1	07/31/24 09:16	08/01/24 19:45	108-60-1	
2-Chloronaphthalene	ND	ug/kg	401	115	1	07/31/24 09:16	08/01/24 19:45	91-58-7	
2-Chlorophenol	ND	ug/kg	401	57.3	1	07/31/24 09:16	08/01/24 19:45	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	401	116	1	07/31/24 09:16	08/01/24 19:45	7005-72-3	
Chrysene	ND	ug/kg	401	59.5	1	07/31/24 09:16	08/01/24 19:45	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	401	153	1	07/31/24 09:16	08/01/24 19:45	53-70-3	
Dibenzofuran	ND	ug/kg	401	129	1	07/31/24 09:16	08/01/24 19:45	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	401	52.8	1	07/31/24 09:16	08/01/24 19:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	401	49.9	1	07/31/24 09:16	08/01/24 19:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	401	55.4	1	07/31/24 09:16	08/01/24 19:45	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	401	118	1	07/31/24 09:16	08/01/24 19:45	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	401	68.2	1	07/31/24 09:16	08/01/24 19:45	120-83-2	
Diethylphthalate	ND	ug/kg	401	141	1	07/31/24 09:16	08/01/24 19:45	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	401	122	1	07/31/24 09:16	08/01/24 19:45	105-67-9	
Dimethylphthalate	ND	ug/kg	401	124	1	07/31/24 09:16	08/01/24 19:45	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3210	2940	1	07/31/24 09:16	08/01/24 19:45	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1000	299	1	07/31/24 09:16	08/01/24 19:45	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1000	903	1	07/31/24 09:16	08/01/24 19:45	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	401	122	1	07/31/24 09:16	08/01/24 19:45	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	401	122	1	07/31/24 09:16	08/01/24 19:45	606-20-2	
Di-n-octylphthalate	ND	ug/kg	401	264	1	07/31/24 09:16	08/01/24 19:45	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	401	128	1	07/31/24 09:16	08/01/24 19:45	117-81-7	
Fluoranthene	ND	ug/kg	401	129	1	07/31/24 09:16	08/01/24 19:45	206-44-0	
Fluorene	ND	ug/kg	401	123	1	07/31/24 09:16	08/01/24 19:45	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	401	62.9	1	07/31/24 09:16	08/01/24 19:45	87-68-3	
Hexachlorobenzene	ND	ug/kg	401	115	1	07/31/24 09:16	08/01/24 19:45	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	401	194	1	07/31/24 09:16	08/01/24 19:45	77-47-4	L2
Hexachloroethane	ND	ug/kg	401	108	1	07/31/24 09:16	08/01/24 19:45	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	401	151	1	07/31/24 09:16	08/01/24 19:45	193-39-5	
Isophorone	ND	ug/kg	401	58.0	1	07/31/24 09:16	08/01/24 19:45	78-59-1	
1-Methylnaphthalene	ND	ug/kg	401	101	1	07/31/24 09:16	08/01/24 19:45	90-12-0	
2-Methylnaphthalene	ND	ug/kg	401	58.7	1	07/31/24 09:16	08/01/24 19:45	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	401	144	1	07/31/24 09:16	08/01/24 19:45	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	803	246	1	07/31/24 09:16	08/01/24 19:45		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-7(1-2)-01-1013 **Lab ID: 30704041013** Collected: 07/24/24 10:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1000	139	1	07/31/24 09:16	08/01/24 19:45	88-74-4	
3-Nitroaniline	ND	ug/kg	1000	262	1	07/31/24 09:16	08/01/24 19:45	99-09-2	
4-Nitroaniline	ND	ug/kg	1000	563	1	07/31/24 09:16	08/01/24 19:45	100-01-6	CH
Nitrobenzene	ND	ug/kg	401	57.7	1	07/31/24 09:16	08/01/24 19:45	98-95-3	
2-Nitrophenol	ND	ug/kg	401	75.2	1	07/31/24 09:16	08/01/24 19:45	88-75-5	
4-Nitrophenol	ND	ug/kg	401	135	1	07/31/24 09:16	08/01/24 19:45	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	401	68.8	1	07/31/24 09:16	08/01/24 19:45	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	401	70.6	1	07/31/24 09:16	08/01/24 19:45	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	401	90.5	1	07/31/24 09:16	08/01/24 19:45	86-30-6	
Pentachlorophenol	ND	ug/kg	1000	529	1	07/31/24 09:16	08/01/24 19:45	87-86-5	
Phenanthrene	ND	ug/kg	401	72.8	1	07/31/24 09:16	08/01/24 19:45	85-01-8	
Phenol	ND	ug/kg	401	119	1	07/31/24 09:16	08/01/24 19:45	108-95-2	
Pyrene	ND	ug/kg	401	147	1	07/31/24 09:16	08/01/24 19:45	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	401	109	1	07/31/24 09:16	08/01/24 19:45	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1000	119	1	07/31/24 09:16	08/01/24 19:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	401	105	1	07/31/24 09:16	08/01/24 19:45	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	80	%.	32-154		1	07/31/24 09:16	08/01/24 19:45	4165-60-0	
2-Fluorobiphenyl (S)	85	%.	50-144		1	07/31/24 09:16	08/01/24 19:45	321-60-8	
Terphenyl-d14 (S)	102	%.	57-146		1	07/31/24 09:16	08/01/24 19:45	1718-51-0	
Phenol-d6 (S)	86	%.	54-121		1	07/31/24 09:16	08/01/24 19:45	13127-88-3	
2-Fluorophenol (S)	80	%.	57-124		1	07/31/24 09:16	08/01/24 19:45	367-12-4	
2,4,6-Tribromophenol (S)	91	%.	44-127		1	07/31/24 09:16	08/01/24 19:45	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**86.1**	ug/kg	53.2	35.7	1	07/30/24 12:18	07/30/24 19:41	67-64-1	CL
Benzene	ND	ug/kg	5.3	0.92	1	07/30/24 12:18	07/30/24 19:41	71-43-2	
Bromochloromethane	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 19:41	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 19:41	75-27-4	
Bromoform	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 19:41	75-25-2	
Bromomethane	ND	ug/kg	5.3	2.0	1	07/30/24 12:18	07/30/24 19:41	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	31.9	6.5	1	07/30/24 12:18	07/30/24 19:41		LS
2-Butanone (MEK)	**7.1J**	ug/kg	10.6	2.8	1	07/30/24 12:18	07/30/24 19:41	78-93-3	
Carbon disulfide	ND	ug/kg	5.3	1.5	1	07/30/24 12:18	07/30/24 19:41	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 19:41	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	0.83	1	07/30/24 12:18	07/30/24 19:41	108-90-7	
Chloroethane	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 19:41	75-00-3	
Chloroform	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 19:41	67-66-3	
Chloromethane	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 19:41	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.3	0.84	1	07/30/24 12:18	07/30/24 19:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.3	0.63	1	07/30/24 12:18	07/30/24 19:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	0.69	1	07/30/24 12:18	07/30/24 19:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	0.75	1	07/30/24 12:18	07/30/24 19:41	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-7(1-2)-01-1013 **Lab ID: 30704041013** Collected: 07/24/24 10:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.3	1.3	1	07/30/24 12:18	07/30/24 19:41	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1.4	1	07/30/24 12:18	07/30/24 19:41	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.6	2.6	1	07/30/24 12:18	07/30/24 19:41	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.3	2.0	1	07/30/24 12:18	07/30/24 19:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 19:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1.4	1	07/30/24 12:18	07/30/24 19:41	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	0.77	1	07/30/24 12:18	07/30/24 19:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	0.53	1	07/30/24 12:18	07/30/24 19:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 19:41	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 19:41	100-41-4	
2-Hexanone	**8.7J**	ug/kg	10.6	2.5	1	07/30/24 12:18	07/30/24 19:41	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1.2	1	07/30/24 12:18	07/30/24 19:41	98-82-8	
Methylene Chloride	ND	ug/kg	5.3	4.5	1	07/30/24 12:18	07/30/24 19:41	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.6	1.2	1	07/30/24 12:18	07/30/24 19:41	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	0.71	1	07/30/24 12:18	07/30/24 19:41	1634-04-4	
Naphthalene	ND	ug/kg	5.3	4.2	1	07/30/24 12:18	07/30/24 19:41	91-20-3	
Styrene	ND	ug/kg	5.3	1.5	1	07/30/24 12:18	07/30/24 19:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	0.63	1	07/30/24 12:18	07/30/24 19:41	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1.8	1	07/30/24 12:18	07/30/24 19:41	127-18-4	
Toluene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 19:41	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	2.1	1	07/30/24 12:18	07/30/24 19:41	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 19:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 19:41	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1.6	1	07/30/24 12:18	07/30/24 19:41	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	2.6	1	07/30/24 12:18	07/30/24 19:41	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 19:41	108-67-8	
Vinyl chloride	ND	ug/kg	5.3	2.2	1	07/30/24 12:18	07/30/24 19:41	75-01-4	
Xylene (Total)	ND	ug/kg	15.9	7.3	1	07/30/24 12:18	07/30/24 19:41	1330-20-7	LS
m&p-Xylene	ND	ug/kg	10.6	6.1	1	07/30/24 12:18	07/30/24 19:41	179601-23-1	L2
o-Xylene	ND	ug/kg	5.3	1.1	1	07/30/24 12:18	07/30/24 19:41	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	07/30/24 12:18	07/30/24 19:41	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	07/30/24 12:18	07/30/24 19:41	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130		1	07/30/24 12:18	07/30/24 19:41	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 19:41	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**18.8**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-7(7-8)-01-1014 **Lab ID: 30704041014** Collected: 07/24/24 10:20 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**20.2**	mg/kg	6.1	0.42	1	07/29/24 11:40	07/31/24 14:52	7440-38-2	
Barium	**46.5**	mg/kg	6.1	0.44	1	07/29/24 11:40	07/31/24 14:52	7440-39-3	
Cadmium	**0.83J**	mg/kg	1.2	0.17	1	07/29/24 11:40	07/31/24 14:52	7440-43-9	
Chromium	**22.9**	mg/kg	6.1	0.77	1	07/29/24 11:40	07/31/24 14:52	7440-47-3	
Lead	**27.0**	mg/kg	6.1	0.63	1	07/29/24 11:40	07/31/24 14:52	7439-92-1	
Selenium	ND	mg/kg	6.1	1.2	1	07/29/24 11:40	07/31/24 14:52	7782-49-2	
Silver	ND	mg/kg	3.0	0.43	1	07/29/24 11:40	07/31/24 14:52	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.044**	mg/kg	0.024	0.023	1	07/29/24 11:10	07/30/24 12:22	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.3	2.2	1	08/01/24 10:21	08/02/24 19:46	83-32-9	
Acenaphthylene	ND	ug/kg	8.3	1.7	1	08/01/24 10:21	08/02/24 19:46	208-96-8	
Anthracene	ND	ug/kg	8.3	1.7	1	08/01/24 10:21	08/02/24 19:46	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.3	2.2	1	08/01/24 10:21	08/02/24 19:46	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.3	3.6	1	08/01/24 10:21	08/02/24 19:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.3	2.4	1	08/01/24 10:21	08/02/24 19:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.3	1.3	1	08/01/24 10:21	08/02/24 19:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.3	1.4	1	08/01/24 10:21	08/02/24 19:46	207-08-9	
Chrysene	ND	ug/kg	8.3	1.3	1	08/01/24 10:21	08/02/24 19:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.3	1.6	1	08/01/24 10:21	08/02/24 19:46	53-70-3	
Fluoranthene	ND	ug/kg	8.3	5.6	1	08/01/24 10:21	08/02/24 19:46	206-44-0	
Fluorene	ND	ug/kg	16.5	8.6	1	08/01/24 10:21	08/02/24 19:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.3	3.2	1	08/01/24 10:21	08/02/24 19:46	193-39-5	
Naphthalene	ND	ug/kg	8.3	3.5	1	08/01/24 10:21	08/02/24 19:46	91-20-3	
Phenanthrene	ND	ug/kg	16.5	5.0	1	08/01/24 10:21	08/02/24 19:46	85-01-8	
Pyrene	ND	ug/kg	8.3	7.3	1	08/01/24 10:21	08/02/24 19:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	74	%.	46-99		1	08/01/24 10:21	08/02/24 19:46	321-60-8	
Terphenyl-d14 (S)	93	%.	48-118		1	08/01/24 10:21	08/02/24 19:46	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	411	61.1	1	07/31/24 09:16	08/01/24 20:07	83-32-9	
Acenaphthylene	ND	ug/kg	411	123	1	07/31/24 09:16	08/01/24 20:07	208-96-8	
Anthracene	ND	ug/kg	411	94.5	1	07/31/24 09:16	08/01/24 20:07	120-12-7	
Azobenzene	ND	ug/kg	411	145	1	07/31/24 09:16	08/01/24 20:07	103-33-3	
Benzo(a)anthracene	ND	ug/kg	411	71.2	1	07/31/24 09:16	08/01/24 20:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	411	128	1	07/31/24 09:16	08/01/24 20:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	411	125	1	07/31/24 09:16	08/01/24 20:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	411	143	1	07/31/24 09:16	08/01/24 20:07	191-24-2	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-7(7-8)-01-1014 **Lab ID: 30704041014** Collected: 07/24/24 10:20 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	411	182	1	07/31/24 09:16	08/01/24 20:07	207-08-9	
Benzoic acid	ND	ug/kg	6170	2080	1	07/31/24 09:16	08/01/24 20:07	65-85-0	
Benzyl alcohol	ND	ug/kg	411	364	1	07/31/24 09:16	08/01/24 20:07	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	411	151	1	07/31/24 09:16	08/01/24 20:07	101-55-3	
Butylbenzylphthalate	ND	ug/kg	411	116	1	07/31/24 09:16	08/01/24 20:07	85-68-7	
Carbazole	ND	ug/kg	411	162	1	07/31/24 09:16	08/01/24 20:07	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	411	66.2	1	07/31/24 09:16	08/01/24 20:07	59-50-7	
4-Chloroaniline	ND	ug/kg	411	72.4	1	07/31/24 09:16	08/01/24 20:07	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	411	71.5	1	07/31/24 09:16	08/01/24 20:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	411	75.1	1	07/31/24 09:16	08/01/24 20:07	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	411	117	1	07/31/24 09:16	08/01/24 20:07	108-60-1	
2-Chloronaphthalene	ND	ug/kg	411	117	1	07/31/24 09:16	08/01/24 20:07	91-58-7	
2-Chlorophenol	ND	ug/kg	411	58.7	1	07/31/24 09:16	08/01/24 20:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	411	119	1	07/31/24 09:16	08/01/24 20:07	7005-72-3	
Chrysene	ND	ug/kg	411	61.0	1	07/31/24 09:16	08/01/24 20:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	411	156	1	07/31/24 09:16	08/01/24 20:07	53-70-3	
Dibenzofuran	ND	ug/kg	411	132	1	07/31/24 09:16	08/01/24 20:07	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	411	54.1	1	07/31/24 09:16	08/01/24 20:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	411	51.2	1	07/31/24 09:16	08/01/24 20:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	411	56.8	1	07/31/24 09:16	08/01/24 20:07	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	411	121	1	07/31/24 09:16	08/01/24 20:07	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	411	69.8	1	07/31/24 09:16	08/01/24 20:07	120-83-2	
Diethylphthalate	ND	ug/kg	411	145	1	07/31/24 09:16	08/01/24 20:07	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	411	125	1	07/31/24 09:16	08/01/24 20:07	105-67-9	
Dimethylphthalate	ND	ug/kg	411	127	1	07/31/24 09:16	08/01/24 20:07	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3290	3010	1	07/31/24 09:16	08/01/24 20:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1030	306	1	07/31/24 09:16	08/01/24 20:07	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1030	925	1	07/31/24 09:16	08/01/24 20:07	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	411	125	1	07/31/24 09:16	08/01/24 20:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	411	125	1	07/31/24 09:16	08/01/24 20:07	606-20-2	
Di-n-octylphthalate	ND	ug/kg	411	271	1	07/31/24 09:16	08/01/24 20:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	411	131	1	07/31/24 09:16	08/01/24 20:07	117-81-7	
Fluoranthene	ND	ug/kg	411	132	1	07/31/24 09:16	08/01/24 20:07	206-44-0	
Fluorene	ND	ug/kg	411	126	1	07/31/24 09:16	08/01/24 20:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	411	64.5	1	07/31/24 09:16	08/01/24 20:07	87-68-3	
Hexachlorobenzene	ND	ug/kg	411	118	1	07/31/24 09:16	08/01/24 20:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	411	198	1	07/31/24 09:16	08/01/24 20:07	77-47-4	L2
Hexachloroethane	ND	ug/kg	411	111	1	07/31/24 09:16	08/01/24 20:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	411	155	1	07/31/24 09:16	08/01/24 20:07	193-39-5	
Isophorone	ND	ug/kg	411	59.4	1	07/31/24 09:16	08/01/24 20:07	78-59-1	
1-Methylnaphthalene	ND	ug/kg	411	103	1	07/31/24 09:16	08/01/24 20:07	90-12-0	
2-Methylnaphthalene	ND	ug/kg	411	60.2	1	07/31/24 09:16	08/01/24 20:07	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	411	148	1	07/31/24 09:16	08/01/24 20:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	822	253	1	07/31/24 09:16	08/01/24 20:07		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-7(7-8)-01-1014 **Lab ID: 30704041014** Collected: 07/24/24 10:20 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1030	143	1	07/31/24 09:16	08/01/24 20:07	88-74-4	
3-Nitroaniline	ND	ug/kg	1030	268	1	07/31/24 09:16	08/01/24 20:07	99-09-2	
4-Nitroaniline	ND	ug/kg	1030	577	1	07/31/24 09:16	08/01/24 20:07	100-01-6	CH
Nitrobenzene	ND	ug/kg	411	59.1	1	07/31/24 09:16	08/01/24 20:07	98-95-3	
2-Nitrophenol	ND	ug/kg	411	77.0	1	07/31/24 09:16	08/01/24 20:07	88-75-5	
4-Nitrophenol	ND	ug/kg	411	138	1	07/31/24 09:16	08/01/24 20:07	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	411	70.5	1	07/31/24 09:16	08/01/24 20:07	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	411	72.4	1	07/31/24 09:16	08/01/24 20:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	411	92.7	1	07/31/24 09:16	08/01/24 20:07	86-30-6	
Pentachlorophenol	ND	ug/kg	1030	542	1	07/31/24 09:16	08/01/24 20:07	87-86-5	
Phenanthrene	ND	ug/kg	411	74.6	1	07/31/24 09:16	08/01/24 20:07	85-01-8	
Phenol	ND	ug/kg	411	122	1	07/31/24 09:16	08/01/24 20:07	108-95-2	
Pyrene	ND	ug/kg	411	150	1	07/31/24 09:16	08/01/24 20:07	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	411	111	1	07/31/24 09:16	08/01/24 20:07	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1030	122	1	07/31/24 09:16	08/01/24 20:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	411	107	1	07/31/24 09:16	08/01/24 20:07	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	77	%.	32-154		1	07/31/24 09:16	08/01/24 20:07	4165-60-0	
2-Fluorobiphenyl (S)	78	%.	50-144		1	07/31/24 09:16	08/01/24 20:07	321-60-8	
Terphenyl-d14 (S)	92	%.	57-146		1	07/31/24 09:16	08/01/24 20:07	1718-51-0	
Phenol-d6 (S)	77	%.	54-121		1	07/31/24 09:16	08/01/24 20:07	13127-88-3	
2-Fluorophenol (S)	74	%.	57-124		1	07/31/24 09:16	08/01/24 20:07	367-12-4	
2,4,6-Tribromophenol (S)	79	%.	44-127		1	07/31/24 09:16	08/01/24 20:07	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**39.7J**	ug/kg	42.8	28.8	1	07/30/24 12:18	07/30/24 20:09	67-64-1	CL
Benzene	ND	ug/kg	4.3	0.75	1	07/30/24 12:18	07/30/24 20:09	71-43-2	
Bromochloromethane	ND	ug/kg	4.3	0.93	1	07/30/24 12:18	07/30/24 20:09	74-97-5	
Bromodichloromethane	ND	ug/kg	4.3	0.93	1	07/30/24 12:18	07/30/24 20:09	75-27-4	
Bromoform	ND	ug/kg	4.3	1.7	1	07/30/24 12:18	07/30/24 20:09	75-25-2	
Bromomethane	ND	ug/kg	4.3	1.6	1	07/30/24 12:18	07/30/24 20:09	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	25.7	5.2	1	07/30/24 12:18	07/30/24 20:09		LS
2-Butanone (MEK)	ND	ug/kg	8.6	2.2	1	07/30/24 12:18	07/30/24 20:09	78-93-3	
Carbon disulfide	ND	ug/kg	4.3	1.2	1	07/30/24 12:18	07/30/24 20:09	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.3	1.5	1	07/30/24 12:18	07/30/24 20:09	56-23-5	
Chlorobenzene	ND	ug/kg	4.3	0.67	1	07/30/24 12:18	07/30/24 20:09	108-90-7	
Chloroethane	ND	ug/kg	4.3	1.8	1	07/30/24 12:18	07/30/24 20:09	75-00-3	
Chloroform	**1.3J**	ug/kg	4.3	1.3	1	07/30/24 12:18	07/30/24 20:09	67-66-3	
Chloromethane	ND	ug/kg	4.3	1.4	1	07/30/24 12:18	07/30/24 20:09	74-87-3	CL
Dibromochloromethane	ND	ug/kg	4.3	0.68	1	07/30/24 12:18	07/30/24 20:09	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.3	0.51	1	07/30/24 12:18	07/30/24 20:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.3	0.56	1	07/30/24 12:18	07/30/24 20:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.3	0.61	1	07/30/24 12:18	07/30/24 20:09	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-7(7-8)-01-1014 **Lab ID: 30704041014** Collected: 07/24/24 10:20 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.3	1.1	1	07/30/24 12:18	07/30/24 20:09	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.3	1.1	1	07/30/24 12:18	07/30/24 20:09	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	8.6	2.1	1	07/30/24 12:18	07/30/24 20:09	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.3	1.6	1	07/30/24 12:18	07/30/24 20:09	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.3	0.99	1	07/30/24 12:18	07/30/24 20:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.3	1.1	1	07/30/24 12:18	07/30/24 20:09	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.3	0.62	1	07/30/24 12:18	07/30/24 20:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.3	0.43	1	07/30/24 12:18	07/30/24 20:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.3	0.89	1	07/30/24 12:18	07/30/24 20:09	10061-02-6	
Ethylbenzene	ND	ug/kg	4.3	0.93	1	07/30/24 12:18	07/30/24 20:09	100-41-4	
2-Hexanone	ND	ug/kg	8.6	2.0	1	07/30/24 12:18	07/30/24 20:09	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.3	0.99	1	07/30/24 12:18	07/30/24 20:09	98-82-8	
Methylene Chloride	ND	ug/kg	4.3	3.6	1	07/30/24 12:18	07/30/24 20:09	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.6	0.96	1	07/30/24 12:18	07/30/24 20:09	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.3	0.57	1	07/30/24 12:18	07/30/24 20:09	1634-04-4	
Naphthalene	ND	ug/kg	4.3	3.4	1	07/30/24 12:18	07/30/24 20:09	91-20-3	
Styrene	ND	ug/kg	4.3	1.2	1	07/30/24 12:18	07/30/24 20:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.3	0.51	1	07/30/24 12:18	07/30/24 20:09	79-34-5	
Tetrachloroethene	ND	ug/kg	4.3	1.5	1	07/30/24 12:18	07/30/24 20:09	127-18-4	
Toluene	ND	ug/kg	4.3	0.85	1	07/30/24 12:18	07/30/24 20:09	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.3	1.7	1	07/30/24 12:18	07/30/24 20:09	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.3	1.3	1	07/30/24 12:18	07/30/24 20:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.3	0.85	1	07/30/24 12:18	07/30/24 20:09	79-00-5	
Trichloroethene	ND	ug/kg	4.3	1.3	1	07/30/24 12:18	07/30/24 20:09	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.3	2.1	1	07/30/24 12:18	07/30/24 20:09	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.3	1.7	1	07/30/24 12:18	07/30/24 20:09	108-67-8	
Vinyl chloride	ND	ug/kg	4.3	1.8	1	07/30/24 12:18	07/30/24 20:09	75-01-4	
Xylene (Total)	ND	ug/kg	12.9	5.8	1	07/30/24 12:18	07/30/24 20:09	1330-20-7	LS
m&p-Xylene	ND	ug/kg	8.6	4.9	1	07/30/24 12:18	07/30/24 20:09	179601-23-1	L2
o-Xylene	ND	ug/kg	4.3	0.92	1	07/30/24 12:18	07/30/24 20:09	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	07/30/24 12:18	07/30/24 20:09	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	07/30/24 12:18	07/30/24 20:09	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130		1	07/30/24 12:18	07/30/24 20:09	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	07/30/24 12:18	07/30/24 20:09	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**19.6**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-8(1-2)-01-1015 **Lab ID: 30704041015** Collected: 07/24/24 11:00 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**3.9J**	mg/kg	6.2	0.43	1	07/29/24 11:40	07/31/24 14:54	7440-38-2	
Barium	**86.3**	mg/kg	6.2	0.45	1	07/29/24 11:40	07/31/24 14:54	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	07/29/24 11:40	07/31/24 14:54	7440-43-9	
Chromium	**11.9**	mg/kg	6.2	0.78	1	07/29/24 11:40	07/31/24 14:54	7440-47-3	
Lead	**14.3**	mg/kg	6.2	0.63	1	07/29/24 11:40	07/31/24 14:54	7439-92-1	
Selenium	ND	mg/kg	6.2	1.2	1	07/29/24 11:40	07/31/24 14:54	7782-49-2	
Silver	ND	mg/kg	3.1	0.44	1	07/29/24 11:40	07/31/24 14:54	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	ND	mg/kg	0.025	0.024	1	07/29/24 11:10	07/30/24 12:24	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.1	2.1	1	08/01/24 10:21	08/02/24 20:06	83-32-9	
Acenaphthylene	ND	ug/kg	8.1	1.7	1	08/01/24 10:21	08/02/24 20:06	208-96-8	
Anthracene	ND	ug/kg	8.1	1.6	1	08/01/24 10:21	08/02/24 20:06	120-12-7	
Benzo(a)anthracene	**4.1J**	ug/kg	8.1	2.1	1	08/01/24 10:21	08/02/24 20:06	56-55-3	
Benzo(a)pyrene	**5.1J**	ug/kg	8.1	3.5	1	08/01/24 10:21	08/02/24 20:06	50-32-8	
Benzo(b)fluoranthene	**13.7**	ug/kg	8.1	2.3	1	08/01/24 10:21	08/02/24 20:06	205-99-2	Ip
Benzo(g,h,i)perylene	**3.3J**	ug/kg	8.1	1.2	1	08/01/24 10:21	08/02/24 20:06	191-24-2	
Benzo(k)fluoranthene	**12.9**	ug/kg	8.1	1.4	1	08/01/24 10:21	08/02/24 20:06	207-08-9	Ip
Chrysene	**6.8J**	ug/kg	8.1	1.3	1	08/01/24 10:21	08/02/24 20:06	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.1	1.6	1	08/01/24 10:21	08/02/24 20:06	53-70-3	
Fluoranthene	**11.4**	ug/kg	8.1	5.4	1	08/01/24 10:21	08/02/24 20:06	206-44-0	
Fluorene	ND	ug/kg	16.2	8.4	1	08/01/24 10:21	08/02/24 20:06	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.1	3.1	1	08/01/24 10:21	08/02/24 20:06	193-39-5	
Naphthalene	ND	ug/kg	8.1	3.5	1	08/01/24 10:21	08/02/24 20:06	91-20-3	
Phenanthrene	**6.3J**	ug/kg	16.2	4.9	1	08/01/24 10:21	08/02/24 20:06	85-01-8	
Pyrene	**9.2**	ug/kg	8.1	7.1	1	08/01/24 10:21	08/02/24 20:06	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	46-99		1	08/01/24 10:21	08/02/24 20:06	321-60-8	
Terphenyl-d14 (S)	95	%.	48-118		1	08/01/24 10:21	08/02/24 20:06	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	410	60.8	1	07/31/24 09:16	08/01/24 20:30	83-32-9	
Acenaphthylene	ND	ug/kg	410	123	1	07/31/24 09:16	08/01/24 20:30	208-96-8	
Anthracene	ND	ug/kg	410	94.1	1	07/31/24 09:16	08/01/24 20:30	120-12-7	
Azobenzene	ND	ug/kg	410	145	1	07/31/24 09:16	08/01/24 20:30	103-33-3	
Benzo(a)anthracene	ND	ug/kg	410	71.0	1	07/31/24 09:16	08/01/24 20:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	410	127	1	07/31/24 09:16	08/01/24 20:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	410	125	1	07/31/24 09:16	08/01/24 20:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	410	142	1	07/31/24 09:16	08/01/24 20:30	191-24-2	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-8(1-2)-01-1015 **Lab ID: 30704041015** Collected: 07/24/24 11:00 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	410	181	1	07/31/24 09:16	08/01/24 20:30	207-08-9	
Benzoic acid	ND	ug/kg	6150	2080	1	07/31/24 09:16	08/01/24 20:30	65-85-0	
Benzyl alcohol	ND	ug/kg	410	362	1	07/31/24 09:16	08/01/24 20:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	410	151	1	07/31/24 09:16	08/01/24 20:30	101-55-3	
Butylbenzylphthalate	ND	ug/kg	410	115	1	07/31/24 09:16	08/01/24 20:30	85-68-7	
Carbazole	ND	ug/kg	410	161	1	07/31/24 09:16	08/01/24 20:30	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	410	65.9	1	07/31/24 09:16	08/01/24 20:30	59-50-7	
4-Chloroaniline	ND	ug/kg	410	72.1	1	07/31/24 09:16	08/01/24 20:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	410	71.2	1	07/31/24 09:16	08/01/24 20:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	410	74.8	1	07/31/24 09:16	08/01/24 20:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	410	116	1	07/31/24 09:16	08/01/24 20:30	108-60-1	
2-Chloronaphthalene	ND	ug/kg	410	117	1	07/31/24 09:16	08/01/24 20:30	91-58-7	
2-Chlorophenol	ND	ug/kg	410	58.4	1	07/31/24 09:16	08/01/24 20:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	410	118	1	07/31/24 09:16	08/01/24 20:30	7005-72-3	
Chrysene	ND	ug/kg	410	60.7	1	07/31/24 09:16	08/01/24 20:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	410	156	1	07/31/24 09:16	08/01/24 20:30	53-70-3	
Dibenzofuran	ND	ug/kg	410	131	1	07/31/24 09:16	08/01/24 20:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	410	53.8	1	07/31/24 09:16	08/01/24 20:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	410	51.0	1	07/31/24 09:16	08/01/24 20:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	410	56.6	1	07/31/24 09:16	08/01/24 20:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	410	120	1	07/31/24 09:16	08/01/24 20:30	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	410	69.6	1	07/31/24 09:16	08/01/24 20:30	120-83-2	
Diethylphthalate	ND	ug/kg	410	144	1	07/31/24 09:16	08/01/24 20:30	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	410	125	1	07/31/24 09:16	08/01/24 20:30	105-67-9	
Dimethylphthalate	ND	ug/kg	410	126	1	07/31/24 09:16	08/01/24 20:30	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3280	3000	1	07/31/24 09:16	08/01/24 20:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1020	305	1	07/31/24 09:16	08/01/24 20:30	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1020	921	1	07/31/24 09:16	08/01/24 20:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	410	124	1	07/31/24 09:16	08/01/24 20:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	410	125	1	07/31/24 09:16	08/01/24 20:30	606-20-2	
Di-n-octylphthalate	ND	ug/kg	410	270	1	07/31/24 09:16	08/01/24 20:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	410	131	1	07/31/24 09:16	08/01/24 20:30	117-81-7	
Fluoranthene	ND	ug/kg	410	132	1	07/31/24 09:16	08/01/24 20:30	206-44-0	
Fluorene	ND	ug/kg	410	125	1	07/31/24 09:16	08/01/24 20:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	410	64.2	1	07/31/24 09:16	08/01/24 20:30	87-68-3	
Hexachlorobenzene	ND	ug/kg	410	118	1	07/31/24 09:16	08/01/24 20:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	410	198	1	07/31/24 09:16	08/01/24 20:30	77-47-4	L2
Hexachloroethane	ND	ug/kg	410	111	1	07/31/24 09:16	08/01/24 20:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	410	154	1	07/31/24 09:16	08/01/24 20:30	193-39-5	
Isophorone	ND	ug/kg	410	59.2	1	07/31/24 09:16	08/01/24 20:30	78-59-1	
1-Methylnaphthalene	ND	ug/kg	410	103	1	07/31/24 09:16	08/01/24 20:30	90-12-0	
2-Methylnaphthalene	ND	ug/kg	410	59.9	1	07/31/24 09:16	08/01/24 20:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	410	147	1	07/31/24 09:16	08/01/24 20:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	819	252	1	07/31/24 09:16	08/01/24 20:30		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-8(1-2)-01-1015 **Lab ID: 30704041015** Collected: 07/24/24 11:00 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1020	142	1	07/31/24 09:16	08/01/24 20:30	88-74-4	
3-Nitroaniline	ND	ug/kg	1020	267	1	07/31/24 09:16	08/01/24 20:30	99-09-2	
4-Nitroaniline	ND	ug/kg	1020	575	1	07/31/24 09:16	08/01/24 20:30	100-01-6	CH
Nitrobenzene	ND	ug/kg	410	58.8	1	07/31/24 09:16	08/01/24 20:30	98-95-3	
2-Nitrophenol	ND	ug/kg	410	76.7	1	07/31/24 09:16	08/01/24 20:30	88-75-5	
4-Nitrophenol	ND	ug/kg	410	138	1	07/31/24 09:16	08/01/24 20:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	410	70.2	1	07/31/24 09:16	08/01/24 20:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	410	72.1	1	07/31/24 09:16	08/01/24 20:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	410	92.4	1	07/31/24 09:16	08/01/24 20:30	86-30-6	
Pentachlorophenol	ND	ug/kg	1020	540	1	07/31/24 09:16	08/01/24 20:30	87-86-5	
Phenanthrene	ND	ug/kg	410	74.3	1	07/31/24 09:16	08/01/24 20:30	85-01-8	
Phenol	ND	ug/kg	410	121	1	07/31/24 09:16	08/01/24 20:30	108-95-2	
Pyrene	ND	ug/kg	410	150	1	07/31/24 09:16	08/01/24 20:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	410	111	1	07/31/24 09:16	08/01/24 20:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1020	121	1	07/31/24 09:16	08/01/24 20:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	410	107	1	07/31/24 09:16	08/01/24 20:30	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	32-154		1	07/31/24 09:16	08/01/24 20:30	4165-60-0	
2-Fluorobiphenyl (S)	86	%.	50-144		1	07/31/24 09:16	08/01/24 20:30	321-60-8	
Terphenyl-d14 (S)	102	%.	57-146		1	07/31/24 09:16	08/01/24 20:30	1718-51-0	
Phenol-d6 (S)	88	%.	54-121		1	07/31/24 09:16	08/01/24 20:30	13127-88-3	
2-Fluorophenol (S)	84	%.	57-124		1	07/31/24 09:16	08/01/24 20:30	367-12-4	
2,4,6-Tribromophenol (S)	92	%.	44-127		1	07/31/24 09:16	08/01/24 20:30	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**142**	ug/kg	55.9	37.6	1	07/30/24 12:18	07/30/24 20:36	67-64-1	CL
Benzene	ND	ug/kg	5.6	0.97	1	07/30/24 12:18	07/30/24 20:36	71-43-2	
Bromochloromethane	ND	ug/kg	5.6	1.2	1	07/30/24 12:18	07/30/24 20:36	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1.2	1	07/30/24 12:18	07/30/24 20:36	75-27-4	
Bromoform	ND	ug/kg	5.6	2.3	1	07/30/24 12:18	07/30/24 20:36	75-25-2	
Bromomethane	ND	ug/kg	5.6	2.1	1	07/30/24 12:18	07/30/24 20:36	74-83-9	2c,CL
TOTAL BTEX	ND	ug/kg	33.6	6.8	1	07/30/24 12:18	07/30/24 20:36		LS
2-Butanone (MEK)	**14.8**	ug/kg	11.2	2.9	1	07/30/24 12:18	07/30/24 20:36	78-93-3	
Carbon disulfide	ND	ug/kg	5.6	1.6	1	07/30/24 12:18	07/30/24 20:36	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	1.9	1	07/30/24 12:18	07/30/24 20:36	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	0.87	1	07/30/24 12:18	07/30/24 20:36	108-90-7	
Chloroethane	ND	ug/kg	5.6	2.3	1	07/30/24 12:18	07/30/24 20:36	75-00-3	
Chloroform	ND	ug/kg	5.6	1.7	1	07/30/24 12:18	07/30/24 20:36	67-66-3	
Chloromethane	ND	ug/kg	5.6	1.9	1	07/30/24 12:18	07/30/24 20:36	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.6	0.88	1	07/30/24 12:18	07/30/24 20:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.6	0.66	1	07/30/24 12:18	07/30/24 20:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	0.73	1	07/30/24 12:18	07/30/24 20:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	0.79	1	07/30/24 12:18	07/30/24 20:36	106-46-7	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SS-8(1-2)-01-1015 **Lab ID: 30704041015** Collected: 07/24/24 11:00 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.6	1.4	1	07/30/24 12:18	07/30/24 20:36	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1.4	1	07/30/24 12:18	07/30/24 20:36	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.2	2.7	1	07/30/24 12:18	07/30/24 20:36	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.6	2.1	1	07/30/24 12:18	07/30/24 20:36	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1.3	1	07/30/24 12:18	07/30/24 20:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1.4	1	07/30/24 12:18	07/30/24 20:36	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	0.81	1	07/30/24 12:18	07/30/24 20:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	0.56	1	07/30/24 12:18	07/30/24 20:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1.2	1	07/30/24 12:18	07/30/24 20:36	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	1.2	1	07/30/24 12:18	07/30/24 20:36	100-41-4	
2-Hexanone	**3.3J**	ug/kg	11.2	2.6	1	07/30/24 12:18	07/30/24 20:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1.3	1	07/30/24 12:18	07/30/24 20:36	98-82-8	
Methylene Chloride	ND	ug/kg	5.6	4.7	1	07/30/24 12:18	07/30/24 20:36	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.2	1.3	1	07/30/24 12:18	07/30/24 20:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	0.75	1	07/30/24 12:18	07/30/24 20:36	1634-04-4	
Naphthalene	ND	ug/kg	5.6	4.4	1	07/30/24 12:18	07/30/24 20:36	91-20-3	
Styrene	ND	ug/kg	5.6	1.6	1	07/30/24 12:18	07/30/24 20:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	0.66	1	07/30/24 12:18	07/30/24 20:36	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1.9	1	07/30/24 12:18	07/30/24 20:36	127-18-4	
Toluene	ND	ug/kg	5.6	1.1	1	07/30/24 12:18	07/30/24 20:36	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	2.2	1	07/30/24 12:18	07/30/24 20:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1.7	1	07/30/24 12:18	07/30/24 20:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1.1	1	07/30/24 12:18	07/30/24 20:36	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1.6	1	07/30/24 12:18	07/30/24 20:36	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	2.7	1	07/30/24 12:18	07/30/24 20:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	2.3	1	07/30/24 12:18	07/30/24 20:36	108-67-8	
Vinyl chloride	ND	ug/kg	5.6	2.3	1	07/30/24 12:18	07/30/24 20:36	75-01-4	
Xylene (Total)	ND	ug/kg	16.8	7.6	1	07/30/24 12:18	07/30/24 20:36	1330-20-7	LS
m&p-Xylene	ND	ug/kg	11.2	6.4	1	07/30/24 12:18	07/30/24 20:36	179601-23-1	L2
o-Xylene	ND	ug/kg	5.6	1.2	1	07/30/24 12:18	07/30/24 20:36	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	07/30/24 12:18	07/30/24 20:36	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	07/30/24 12:18	07/30/24 20:36	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	07/30/24 12:18	07/30/24 20:36	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	07/30/24 12:18	07/30/24 20:36	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**19.7**	%	0.10	0.10	1		07/30/24 12:46		

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-8(6-7)-01-1016 **Lab ID: 30704041016** Collected: 07/24/24 11:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**6.4**	mg/kg	6.0	0.42	1	07/29/24 11:40	07/31/24 14:56	7440-38-2	
Barium	**170**	mg/kg	6.0	0.44	1	07/29/24 11:40	07/31/24 14:56	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	07/29/24 11:40	07/31/24 14:56	7440-43-9	
Chromium	**25.5**	mg/kg	6.0	0.76	1	07/29/24 11:40	07/31/24 14:56	7440-47-3	
Lead	**16.0**	mg/kg	6.0	0.62	1	07/29/24 11:40	07/31/24 14:56	7439-92-1	
Selenium	ND	mg/kg	6.0	1.2	1	07/29/24 11:40	07/31/24 14:56	7782-49-2	
Silver	ND	mg/kg	3.0	0.43	1	07/29/24 11:40	07/31/24 14:56	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	ND	mg/kg	0.024	0.023	1	07/29/24 11:10	07/30/24 12:26	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.8	2.1	1	08/01/24 10:21	08/02/24 20:26	83-32-9	
Acenaphthylene	ND	ug/kg	7.8	1.6	1	08/01/24 10:21	08/02/24 20:26	208-96-8	
Anthracene	ND	ug/kg	7.8	1.6	1	08/01/24 10:21	08/02/24 20:26	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.8	2.1	1	08/01/24 10:21	08/02/24 20:26	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.8	3.4	1	08/01/24 10:21	08/02/24 20:26	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.8	2.2	1	08/01/24 10:21	08/02/24 20:26	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	7.8	1.2	1	08/01/24 10:21	08/02/24 20:26	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.8	1.3	1	08/01/24 10:21	08/02/24 20:26	207-08-9	
Chrysene	ND	ug/kg	7.8	1.2	1	08/01/24 10:21	08/02/24 20:26	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.8	1.5	1	08/01/24 10:21	08/02/24 20:26	53-70-3	
Fluoranthene	ND	ug/kg	7.8	5.3	1	08/01/24 10:21	08/02/24 20:26	206-44-0	
Fluorene	ND	ug/kg	15.6	8.1	1	08/01/24 10:21	08/02/24 20:26	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.8	3.0	1	08/01/24 10:21	08/02/24 20:26	193-39-5	
Naphthalene	ND	ug/kg	7.8	3.3	1	08/01/24 10:21	08/02/24 20:26	91-20-3	
Phenanthrene	ND	ug/kg	15.6	4.7	1	08/01/24 10:21	08/02/24 20:26	85-01-8	
Pyrene	ND	ug/kg	7.8	6.9	1	08/01/24 10:21	08/02/24 20:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%.	46-99		1	08/01/24 10:21	08/02/24 20:26	321-60-8	
Terphenyl-d14 (S)	88	%.	48-118		1	08/01/24 10:21	08/02/24 20:26	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	390	58.0	1	07/31/24 09:16	08/01/24 20:52	83-32-9	
Acenaphthylene	ND	ug/kg	390	117	1	07/31/24 09:16	08/01/24 20:52	208-96-8	
Anthracene	ND	ug/kg	390	89.7	1	07/31/24 09:16	08/01/24 20:52	120-12-7	
Azobenzene	ND	ug/kg	390	138	1	07/31/24 09:16	08/01/24 20:52	103-33-3	
Benzo(a)anthracene	ND	ug/kg	390	67.6	1	07/31/24 09:16	08/01/24 20:52	56-55-3	
Benzo(a)pyrene	ND	ug/kg	390	121	1	07/31/24 09:16	08/01/24 20:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	390	119	1	07/31/24 09:16	08/01/24 20:52	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	390	135	1	07/31/24 09:16	08/01/24 20:52	191-24-2	

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-8(6-7)-01-1016 **Lab ID: 30704041016** Collected: 07/24/24 11:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	390	172	1	07/31/24 09:16	08/01/24 20:52	207-08-9	Ip
Benzoic acid	ND	ug/kg	5850	1980	1	07/31/24 09:16	08/01/24 20:52	65-85-0	
Benzyl alcohol	ND	ug/kg	390	345	1	07/31/24 09:16	08/01/24 20:52	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	390	143	1	07/31/24 09:16	08/01/24 20:52	101-55-3	
Butylbenzylphthalate	ND	ug/kg	390	110	1	07/31/24 09:16	08/01/24 20:52	85-68-7	
Carbazole	ND	ug/kg	390	153	1	07/31/24 09:16	08/01/24 20:52	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	390	62.8	1	07/31/24 09:16	08/01/24 20:52	59-50-7	
4-Chloroaniline	ND	ug/kg	390	68.7	1	07/31/24 09:16	08/01/24 20:52	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	390	67.8	1	07/31/24 09:16	08/01/24 20:52	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	390	71.3	1	07/31/24 09:16	08/01/24 20:52	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	390	111	1	07/31/24 09:16	08/01/24 20:52	108-60-1	
2-Chloronaphthalene	ND	ug/kg	390	111	1	07/31/24 09:16	08/01/24 20:52	91-58-7	
2-Chlorophenol	ND	ug/kg	390	55.7	1	07/31/24 09:16	08/01/24 20:52	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	390	113	1	07/31/24 09:16	08/01/24 20:52	7005-72-3	
Chrysene	ND	ug/kg	390	57.9	1	07/31/24 09:16	08/01/24 20:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	390	148	1	07/31/24 09:16	08/01/24 20:52	53-70-3	
Dibenzofuran	ND	ug/kg	390	125	1	07/31/24 09:16	08/01/24 20:52	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	390	51.3	1	07/31/24 09:16	08/01/24 20:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	390	48.6	1	07/31/24 09:16	08/01/24 20:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	390	53.9	1	07/31/24 09:16	08/01/24 20:52	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	390	115	1	07/31/24 09:16	08/01/24 20:52	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	390	66.3	1	07/31/24 09:16	08/01/24 20:52	120-83-2	
Diethylphthalate	ND	ug/kg	390	137	1	07/31/24 09:16	08/01/24 20:52	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	390	119	1	07/31/24 09:16	08/01/24 20:52	105-67-9	
Dimethylphthalate	ND	ug/kg	390	120	1	07/31/24 09:16	08/01/24 20:52	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3120	2860	1	07/31/24 09:16	08/01/24 20:52	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	976	291	1	07/31/24 09:16	08/01/24 20:52	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	976	878	1	07/31/24 09:16	08/01/24 20:52	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	390	118	1	07/31/24 09:16	08/01/24 20:52	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	390	119	1	07/31/24 09:16	08/01/24 20:52	606-20-2	
Di-n-octylphthalate	ND	ug/kg	390	257	1	07/31/24 09:16	08/01/24 20:52	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	390	124	1	07/31/24 09:16	08/01/24 20:52	117-81-7	
Fluoranthene	ND	ug/kg	390	126	1	07/31/24 09:16	08/01/24 20:52	206-44-0	
Fluorene	ND	ug/kg	390	120	1	07/31/24 09:16	08/01/24 20:52	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	390	61.2	1	07/31/24 09:16	08/01/24 20:52	87-68-3	
Hexachlorobenzene	ND	ug/kg	390	112	1	07/31/24 09:16	08/01/24 20:52	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	390	188	1	07/31/24 09:16	08/01/24 20:52	77-47-4	L2
Hexachloroethane	ND	ug/kg	390	105	1	07/31/24 09:16	08/01/24 20:52	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	390	147	1	07/31/24 09:16	08/01/24 20:52	193-39-5	
Isophorone	ND	ug/kg	390	56.3	1	07/31/24 09:16	08/01/24 20:52	78-59-1	
1-Methylnaphthalene	ND	ug/kg	390	98.1	1	07/31/24 09:16	08/01/24 20:52	90-12-0	
2-Methylnaphthalene	ND	ug/kg	390	57.1	1	07/31/24 09:16	08/01/24 20:52	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	390	140	1	07/31/24 09:16	08/01/24 20:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	780	240	1	07/31/24 09:16	08/01/24 20:52		

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-8(6-7)-01-1016 **Lab ID: 30704041016** Collected: 07/24/24 11:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	976	136	1	07/31/24 09:16	08/01/24 20:52	88-74-4	
3-Nitroaniline	ND	ug/kg	976	255	1	07/31/24 09:16	08/01/24 20:52	99-09-2	
4-Nitroaniline	ND	ug/kg	976	548	1	07/31/24 09:16	08/01/24 20:52	100-01-6	CH
Nitrobenzene	ND	ug/kg	390	56.1	1	07/31/24 09:16	08/01/24 20:52	98-95-3	
2-Nitrophenol	ND	ug/kg	390	73.1	1	07/31/24 09:16	08/01/24 20:52	88-75-5	
4-Nitrophenol	ND	ug/kg	390	131	1	07/31/24 09:16	08/01/24 20:52	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	390	66.9	1	07/31/24 09:16	08/01/24 20:52	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	390	68.7	1	07/31/24 09:16	08/01/24 20:52	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	390	88.0	1	07/31/24 09:16	08/01/24 20:52	86-30-6	
Pentachlorophenol	ND	ug/kg	976	514	1	07/31/24 09:16	08/01/24 20:52	87-86-5	
Phenanthrene	ND	ug/kg	390	70.8	1	07/31/24 09:16	08/01/24 20:52	85-01-8	
Phenol	ND	ug/kg	390	116	1	07/31/24 09:16	08/01/24 20:52	108-95-2	
Pyrene	ND	ug/kg	390	143	1	07/31/24 09:16	08/01/24 20:52	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	390	106	1	07/31/24 09:16	08/01/24 20:52	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	976	115	1	07/31/24 09:16	08/01/24 20:52	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	390	102	1	07/31/24 09:16	08/01/24 20:52	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%.	32-154		1	07/31/24 09:16	08/01/24 20:52	4165-60-0	
2-Fluorobiphenyl (S)	81	%.	50-144		1	07/31/24 09:16	08/01/24 20:52	321-60-8	
Terphenyl-d14 (S)	95	%.	57-146		1	07/31/24 09:16	08/01/24 20:52	1718-51-0	
Phenol-d6 (S)	83	%.	54-121		1	07/31/24 09:16	08/01/24 20:52	13127-88-3	
2-Fluorophenol (S)	81	%.	57-124		1	07/31/24 09:16	08/01/24 20:52	367-12-4	
2,4,6-Tribromophenol (S)	84	%.	44-127		1	07/31/24 09:16	08/01/24 20:52	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**397**	ug/kg	49.8	33.5	1	07/30/24 12:18	07/30/24 21:04	67-64-1	CL
Benzene	ND	ug/kg	5.0	0.87	1	07/30/24 12:18	07/30/24 21:04	71-43-2	
Bromochloromethane	ND	ug/kg	5.0	1.1	1	07/30/24 12:18	07/30/24 21:04	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1.1	1	07/30/24 12:18	07/30/24 21:04	75-27-4	
Bromoform	ND	ug/kg	5.0	2.0	1	07/30/24 12:18	07/30/24 21:04	75-25-2	
Bromomethane	ND	ug/kg	5.0	1.9	1	07/30/24 12:18	07/30/24 21:04	74-83-9	2c,CL
TOTAL BTEX	**21.9J**	ug/kg	29.9	6.1	1	07/30/24 12:18	07/30/24 21:04		LS
2-Butanone (MEK)	**43.5**	ug/kg	10	2.6	1	07/30/24 12:18	07/30/24 21:04	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	1.4	1	07/30/24 12:18	07/30/24 21:04	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1.7	1	07/30/24 12:18	07/30/24 21:04	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	0.78	1	07/30/24 12:18	07/30/24 21:04	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.1	1	07/30/24 12:18	07/30/24 21:04	75-00-3	
Chloroform	ND	ug/kg	5.0	1.5	1	07/30/24 12:18	07/30/24 21:04	67-66-3	
Chloromethane	ND	ug/kg	5.0	1.7	1	07/30/24 12:18	07/30/24 21:04	74-87-3	CL
Dibromochloromethane	ND	ug/kg	5.0	0.79	1	07/30/24 12:18	07/30/24 21:04	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.0	0.59	1	07/30/24 12:18	07/30/24 21:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	0.65	1	07/30/24 12:18	07/30/24 21:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	0.71	1	07/30/24 12:18	07/30/24 21:04	106-46-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Sample: GVMC-SB-8(6-7)-01-1016 **Lab ID: 30704041016** Collected: 07/24/24 11:10 Received: 07/25/24 15:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.0	1.3	1	07/30/24 12:18	07/30/24 21:04	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1.3	1	07/30/24 12:18	07/30/24 21:04	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10	2.4	1	07/30/24 12:18	07/30/24 21:04	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1.9	1	07/30/24 12:18	07/30/24 21:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1.2	1	07/30/24 12:18	07/30/24 21:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1.3	1	07/30/24 12:18	07/30/24 21:04	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	0.72	1	07/30/24 12:18	07/30/24 21:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	0.50	1	07/30/24 12:18	07/30/24 21:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1.0	1	07/30/24 12:18	07/30/24 21:04	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1.1	1	07/30/24 12:18	07/30/24 21:04	100-41-4	
2-Hexanone	**2.7J**	ug/kg	10	2.3	1	07/30/24 12:18	07/30/24 21:04	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1.2	1	07/30/24 12:18	07/30/24 21:04	98-82-8	
Methylene Chloride	ND	ug/kg	5.0	4.2	1	07/30/24 12:18	07/30/24 21:04	75-09-2	CL,IH
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10	1.1	1	07/30/24 12:18	07/30/24 21:04	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	0.67	1	07/30/24 12:18	07/30/24 21:04	1634-04-4	
Naphthalene	ND	ug/kg	5.0	4.0	1	07/30/24 12:18	07/30/24 21:04	91-20-3	
Styrene	ND	ug/kg	5.0	1.4	1	07/30/24 12:18	07/30/24 21:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	0.59	1	07/30/24 12:18	07/30/24 21:04	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1.7	1	07/30/24 12:18	07/30/24 21:04	127-18-4	
Toluene	**21.9**	ug/kg	5.0	0.99	1	07/30/24 12:18	07/30/24 21:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	2.0	1	07/30/24 12:18	07/30/24 21:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1.5	1	07/30/24 12:18	07/30/24 21:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	0.99	1	07/30/24 12:18	07/30/24 21:04	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1.5	1	07/30/24 12:18	07/30/24 21:04	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	2.4	1	07/30/24 12:18	07/30/24 21:04	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	2.0	1	07/30/24 12:18	07/30/24 21:04	108-67-8	
Vinyl chloride	ND	ug/kg	5.0	2.1	1	07/30/24 12:18	07/30/24 21:04	75-01-4	
Xylene (Total)	ND	ug/kg	14.9	6.8	1	07/30/24 12:18	07/30/24 21:04	1330-20-7	LS
m&p-Xylene	ND	ug/kg	10	5.7	1	07/30/24 12:18	07/30/24 21:04	179601-23-1	L2
o-Xylene	ND	ug/kg	5.0	1.1	1	07/30/24 12:18	07/30/24 21:04	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	07/30/24 12:18	07/30/24 21:04	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	07/30/24 12:18	07/30/24 21:04	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130		1	07/30/24 12:18	07/30/24 21:04	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	07/30/24 12:18	07/30/24 21:04	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**16.6**	%	0.10	0.10	1		07/30/24 12:46		

REPORT OF LABORATORY ANALYSIS

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(800)999-0105

QUALIFIERS

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

2c	The analyte did not meet the method recommended minimum RF.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
H1	Analysis conducted outside the EPA method holding time.
IH	This analyte exceeded secondary source verification criteria high for the initial calibration. The reported results should be considered an estimated value.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
LS	Analyte recovery in the laboratory control sample (LCS) was outside QC limits for one or more of the constituent analytes used in the calculated result.
MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.
RS	The RPD value in one of the constituent analytes was outside the control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30704041001	**GVMC-SS-1(1-2)-01-1001**	EPA 3050B	685609	EPA 6010D	686251
30704041002	**GVMC-SB-1(9-10)-01-1002**	EPA 3050B	685609	EPA 6010D	686251
30704041003	**GVMC-SS-3(1-2)-01-1003**	EPA 3050B	685609	EPA 6010D	686251
30704041004	**GVMC-SS-3(1-2)-02-1004**	EPA 3050B	685609	EPA 6010D	686251
30704041005	**GVMC-SB-3(9-10)-01-1005**	EPA 3050B	685609	EPA 6010D	686251
30704041006	**GVMC-SB-3(9-10)-02-1006**	EPA 3050B	685609	EPA 6010D	686251
30704041007	**GVMC-SS-4(0-1)-01-1007**	EPA 3050B	685609	EPA 6010D	686251
30704041008	**GVMC-SB-4(6-7)-01-1008**	EPA 3050B	685609	EPA 6010D	686251
30704041009	**GVMC-SS-5(0-1)-01-1009**	EPA 3050B	685609	EPA 6010D	686251
30704041010	**GVMC-SB-5(7-8)-01-1010**	EPA 3050B	685609	EPA 6010D	686251
30704041011	**GVMC-SS-6(1-2)-01-1011**	EPA 3050B	685609	EPA 6010D	686251
30704041012	**GVMC-SB-6(7-8)-01-1012**	EPA 3050B	685609	EPA 6010D	686251
30704041013	**GVMC-SS-7(1-2)-01-1013**	EPA 3050B	685609	EPA 6010D	686251
30704041014	**GVMC-SB-7(7-8)-01-1014**	EPA 3050B	685609	EPA 6010D	686251
30704041015	**GVMC-SS-8(1-2)-01-1015**	EPA 3050B	685609	EPA 6010D	686251
30704041016	**GVMC-SB-8(6-7)-01-1016**	EPA 3050B	685609	EPA 6010D	686251
30704041001	**GVMC-SS-1(1-2)-01-1001**	EPA 7471B	685618	EPA 7471B	685702
30704041002	**GVMC-SB-1(9-10)-01-1002**	EPA 7471B	685618	EPA 7471B	685702
30704041003	**GVMC-SS-3(1-2)-01-1003**	EPA 7471B	685618	EPA 7471B	685702
30704041004	**GVMC-SS-3(1-2)-02-1004**	EPA 7471B	685618	EPA 7471B	685702
30704041005	**GVMC-SB-3(9-10)-01-1005**	EPA 7471B	685618	EPA 7471B	685702
30704041006	**GVMC-SB-3(9-10)-02-1006**	EPA 7471B	685618	EPA 7471B	685702
30704041007	**GVMC-SS-4(0-1)-01-1007**	EPA 7471B	685618	EPA 7471B	685702
30704041008	**GVMC-SB-4(6-7)-01-1008**	EPA 7471B	685618	EPA 7471B	685702
30704041009	**GVMC-SS-5(0-1)-01-1009**	EPA 7471B	685618	EPA 7471B	685702
30704041010	**GVMC-SB-5(7-8)-01-1010**	EPA 7471B	685618	EPA 7471B	685702
30704041011	**GVMC-SS-6(1-2)-01-1011**	EPA 7471B	685618	EPA 7471B	685702
30704041012	**GVMC-SB-6(7-8)-01-1012**	EPA 7471B	685618	EPA 7471B	685702
30704041013	**GVMC-SS-7(1-2)-01-1013**	EPA 7471B	685618	EPA 7471B	685702
30704041014	**GVMC-SB-7(7-8)-01-1014**	EPA 7471B	685618	EPA 7471B	685702
30704041015	**GVMC-SS-8(1-2)-01-1015**	EPA 7471B	685618	EPA 7471B	685702
30704041016	**GVMC-SB-8(6-7)-01-1016**	EPA 7471B	685618	EPA 7471B	685702
30704041001	**GVMC-SS-1(1-2)-01-1001**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041002	**GVMC-SB-1(9-10)-01-1002**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041003	**GVMC-SS-3(1-2)-01-1003**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041004	**GVMC-SS-3(1-2)-02-1004**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041005	**GVMC-SB-3(9-10)-01-1005**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041006	**GVMC-SB-3(9-10)-02-1006**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041007	**GVMC-SS-4(0-1)-01-1007**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041008	**GVMC-SB-4(6-7)-01-1008**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041009	**GVMC-SS-5(0-1)-01-1009**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041010	**GVMC-SB-5(7-8)-01-1010**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041011	**GVMC-SS-6(1-2)-01-1011**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041012	**GVMC-SB-6(7-8)-01-1012**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041013	**GVMC-SS-7(1-2)-01-1013**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041014	**GVMC-SB-7(7-8)-01-1014**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041015	**GVMC-SS-8(1-2)-01-1015**	EPA 3546	686287	EPA 8270E by SIM	686671
30704041016	**GVMC-SB-8(6-7)-01-1016**	EPA 3546	686287	EPA 8270E by SIM	686671

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30704041001	**GVMC-SS-1(1-2)-01-1001**	EPA 3546	686074	EPA 8270E	686346
30704041002	**GVMC-SB-1(9-10)-01-1002**	EPA 3546	686074	EPA 8270E	686346
30704041003	**GVMC-SS-3(1-2)-01-1003**	EPA 3546	686074	EPA 8270E	686346
30704041004	**GVMC-SS-3(1-2)-02-1004**	EPA 3546	686074	EPA 8270E	686346
30704041005	**GVMC-SB-3(9-10)-01-1005**	EPA 3546	686074	EPA 8270E	686346
30704041006	**GVMC-SB-3(9-10)-02-1006**	EPA 3546	686074	EPA 8270E	686346
30704041007	**GVMC-SS-4(0-1)-01-1007**	EPA 3546	686074	EPA 8270E	686346
30704041008	**GVMC-SB-4(6-7)-01-1008**	EPA 3546	686074	EPA 8270E	686346
30704041009	**GVMC-SS-5(0-1)-01-1009**	EPA 3546	686074	EPA 8270E	686346
30704041010	**GVMC-SB-5(7-8)-01-1010**	EPA 3546	686074	EPA 8270E	686346
30704041011	**GVMC-SS-6(1-2)-01-1011**	EPA 3546	686074	EPA 8270E	686346
30704041012	**GVMC-SB-6(7-8)-01-1012**	EPA 3546	686074	EPA 8270E	686346
30704041013	**GVMC-SS-7(1-2)-01-1013**	EPA 3546	686074	EPA 8270E	686346
30704041014	**GVMC-SB-7(7-8)-01-1014**	EPA 3546	686074	EPA 8270E	686346
30704041015	**GVMC-SS-8(1-2)-01-1015**	EPA 3546	686074	EPA 8270E	686346
30704041016	**GVMC-SB-8(6-7)-01-1016**	EPA 3546	686074	EPA 8270E	686346
30704041001	**GVMC-SS-1(1-2)-01-1001**	EPA 5035A	685918	EPA 8260D	685926
30704041002	**GVMC-SB-1(9-10)-01-1002**	EPA 5035A	685918	EPA 8260D	685926
30704041003	**GVMC-SS-3(1-2)-01-1003**	EPA 5035A	685918	EPA 8260D	685926
30704041004	**GVMC-SS-3(1-2)-02-1004**	EPA 5035A	685918	EPA 8260D	685926
30704041005	**GVMC-SB-3(9-10)-01-1005**	EPA 5035A	685918	EPA 8260D	685926
30704041006	**GVMC-SB-3(9-10)-02-1006**	EPA 5035A	685918	EPA 8260D	685926
30704041007	**GVMC-SS-4(0-1)-01-1007**	EPA 5035A	685918	EPA 8260D	685926
30704041008	**GVMC-SB-4(6-7)-01-1008**	EPA 5035A	685918	EPA 8260D	685926
30704041009	**GVMC-SS-5(0-1)-01-1009**	EPA 5035A	685918	EPA 8260D	685926
30704041010	**GVMC-SB-5(7-8)-01-1010**	EPA 5035A	685918	EPA 8260D	685926
30704041011	**GVMC-SS-6(1-2)-01-1011**	EPA 5035A	685918	EPA 8260D	685926
30704041012	**GVMC-SB-6(7-8)-01-1012**	EPA 5035A	685918	EPA 8260D	685926
30704041013	**GVMC-SS-7(1-2)-01-1013**	EPA 5035A	685918	EPA 8260D	685926
30704041014	**GVMC-SB-7(7-8)-01-1014**	EPA 5035A	685918	EPA 8260D	685926
30704041015	**GVMC-SS-8(1-2)-01-1015**	EPA 5035A	685918	EPA 8260D	685926
30704041016	**GVMC-SB-8(6-7)-01-1016**	EPA 5035A	685918	EPA 8260D	685926
30704041001	**GVMC-SS-1(1-2)-01-1001**	SM 2540G-2015	685803		
30704041002	**GVMC-SB-1(9-10)-01-1002**	SM 2540G-2015	685803		
30704041003	**GVMC-SS-3(1-2)-01-1003**	SM 2540G-2015	685803		
30704041004	**GVMC-SS-3(1-2)-02-1004**	SM 2540G-2015	685803		
30704041005	**GVMC-SB-3(9-10)-01-1005**	SM 2540G-2015	685803		
30704041006	**GVMC-SB-3(9-10)-02-1006**	SM 2540G-2015	685803		
30704041007	**GVMC-SS-4(0-1)-01-1007**	SM 2540G-2015	685803		
30704041008	**GVMC-SB-4(6-7)-01-1008**	SM 2540G-2015	685803		
30704041009	**GVMC-SS-5(0-1)-01-1009**	SM 2540G-2015	685803		
30704041010	**GVMC-SB-5(7-8)-01-1010**	SM 2540G-2015	685803		
30704041011	**GVMC-SS-6(1-2)-01-1011**	SM 2540G-2015	685803		
30704041012	**GVMC-SB-6(7-8)-01-1012**	SM 2540G-2015	685803		
30704041013	**GVMC-SS-7(1-2)-01-1013**	SM 2540G-2015	685803		
30704041014	**GVMC-SB-7(7-8)-01-1014**	SM 2540G-2015	685803		
30704041015	**GVMC-SS-8(1-2)-01-1015**	SM 2540G-2015	685803		

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GVMC/WV1966-Revised Report
Pace Project No.: 30704041

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30704041016	**GVMC-SB-8(6-7)-01-1016**	SM 2540G-2015	685803		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

WO# : 30704041

30704041

Company: KEMRON Environmental Services, Inc.	Billing Information:
Address: 108 Craddock Way, Suite 5, Peca, MN	
Report To: Abdo Chahrour	Email To: achahrour@kemron.com
Copy To: Evan Jewett	Site Collection Info/Address: GVMC
Customer Project Name/Number: GVMC / WW1966	State: WV County/City: Monongalia / Granville Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0999 Email: achahrour@kemron.com	Site/Facility ID #: GVMC
Collected By (print): Evan Jewett	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 E SIM	Total Meta Arsenic Chrom Mercury) 6010	Dioxins and Furans
GVMC-SS-1(1-2)-01-1001	SL	Grab	7/22/24	1510					X	X	X	X	
GVMC-SB-1(9-10)-01-1002		Grab	7/22/24	1515					X	X	X	X	
GVMC-SS-3(1-2)-01-1003		Grab	7/23/24	1130					X	X	X	X	X
GVMC-SS-3(1-2)-02-1004		Grab	7/23/24	1130					X	X	X	X	X
GVMC-SS-3(1-2)-01-1003MS		Grab	7/23/24	1130					X	X	X	X	X
GVMC-SS-3(1-2)-01-1003MSD		Grab	7/23/24	1130					X	X	X	X	X
GVMC-SB-3(9-10)-01-1005		Grab	7/23/24	1145					X	X	X	X	X
GVMC-SB-3(9-10)-02-1006		Grab	7/23/24	1145					X	X	X	X	X
GVMC-SB-3(9-10)-01-1005MS		Grab	7/23/24	1145					X	X	X	X	X
GVMC-SB-3(9-10)-01-1005MSD		Grab	7/23/24	1145					X	X	X	X	X

Container

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949273

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 3.4 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 3.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 7/25/24 1345	Received by/Company: (Signature)	Date/Time: 7/25/24 13:45
Relinquished by/Company: (Signature)	Date/Time: 7/25/24 15:10	Received by/Company: (Signature)	Date/Time: 7/25/24 1510
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: KENTON Environmental Services, Inc.	Billing Information:
Address: 108 Craddock Way, Suite 5, Poca, WV	
Report To: Abdo Chaaban	Email To: achaaban@kenton.com
Copy To: Evan Arnold	Site Collection Info/Address: GVMC
Customer Project Name/Number: GVMC / WV1966	State: WV County/City: Greenbrier/Ronceverte Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0499 Email: achaaban@kenton.com	Site/Facility ID #: GVMC
Collected By (print): Evan Arnold	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Lab Project Manager:

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 E SIM	Total Mercury (Low Level) 7470	Dioxins and Furans
GVMC-SS-4(0-1)-01-1007	SL	Grab	7/23/24	1330					X	X	X	X	X
GVMC-SB-4(6-7)-01-1008	SL	Grab	7/23/24	1345					X	X	X	X	X
GVMC-SS-5(0-1)-01-1009	SL	Grab	7/23/24	1430					X	X	X	X	X
GVMC-SB-5(6-8)-01-1010	SL	Grab	7/23/24	1440					X	X	X	X	X
GVMC-SS-6(1-2)-01-1011	SL	Grab	7/23/24	1515					X	X	X	X	X
GVMC-SB-6(7-8)-01-1012	SL	Grab	7/23/24	1530					X	X	X	X	X
GVMC-SS-7(1-2)-01-1013	SL	Grab	7/24/24	1010					X	X	X	X	X
GVMC-SB-7(7-8)-01-1014	SL	Grab	7/24/24	1020					X	X	X	X	X
GVMC-SS-8(1-2)-01-1015	SL	Grab	7/24/24	1100					X	X	X	X	X
GVMC-SB-8(6-7)-01-1016	SL	Grab	7/24/24	1110					X	X	X	X	X

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949274

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 3.4 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 3.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 7/25/24 1400	Received by/Company: (Signature)	Date/Time: 7/25/24 1500
Relinquished by/Company: (Signature)	Date/Time: 7/25/24 15:10	Received by/Company: (Signature)	Date/Time: 7/25/24 1510
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

WO#: 30704041

PM: BAA **Due Date: 08/07/24**

CLIENT: BV-KEENPOCA

LIMS30 Lab Sample Condition Upon Receipt (West Virgini

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ 3rd Party Courier ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box/Containers Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Thermometer Used 2X 6 RC **Type of Ice:** (Wet) Blue None

Cooler Temperature **Observed Temp** 3.4 °C Correction Factor: 0.0 °C Final Temp: 3.4 °C

Thermal Preservation Requirement Met Yes ☒ No ☐

pH paper Lot#	Date and Initials of person examining contents: RC 7/26/24

	Yes	No	N/A	
Chain of Custody Present:	X			1.
Chain of Custody Filled Out:	X			2.
Chain of Custody Relinquished:	X			3.
Sampler Name & Signature on COC:	X			4.
Sample Labels match COC: -Includes date/time/ID Matrix: SL	X			5.
Samples Arrived within Hold Time:	X			6.
Short Hold Time Analysis (<72hr remaining):	X			7.
Rush Turn Around Time Requested:		X		8.
Sufficient Volume:	X			9.
Correct Containers Used:	X			10.
-Pace Containers Used:	X			
Containers Intact:	X			11.
Orthophosphate field filtered:			X	12.
Hex Cr Aqueous sample field filtered:			X	13.
-pH adjusted within 24 hours? (If yes, indicate acid lot #)			X	
Filtered volume received for Dissolved tests:			X	14.
All containers have been checked for chemical preservation:			X	15.
exceptions: VOA, coliform, O&G, LLMercury, Non-aqueous matrix				
All containers meet method/chemical preservation requirements:			X	Initial when completed RC Date: 7/26/24
				Tests not preserved:
Headspace in VOA Vials:			X	16.
Trip Blank Present:			X	17.
				Initial when completed: RC Date: 7/26/24

Comments: _____

***PM review** is documented electronically in LIMS, when the Project Manager closes the SRF Review schedule in LIMS. The status may be reviewed in the Status section of the Workorder Edit Screen.

Pace Analytical™
www.pacelabs.com

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Bobby Adams
PASI Beaver West Virginia
PO Box 286
Beaver WV 25813

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Information:

Pace Project #: 10702418
Sample Receipt Date: 08/01/2024
Client Project #: 30704041 KEMRON ENVIRON
Client Sub PO #: N/A
State Cert #: 382

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Joanne Richardson, your Pace Project Manager.

This report has been reviewed by:

Joanne Richardson

August 08, 2024

Joanne Richardson,
(612) 607-6453
(612) 607-6444 (fax)

Report Prepared Date:
August 8, 2024

Report of Laboratory Analysis

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The results relate only to the samples included in this report.

Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DISCUSSION

This report presents the results from the analyses performed on fourteen samples submitted by a representative of Pace Analytical Services, LLC. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The estimated detection limits (EDLs) were based on signal-to-noise measurements. Estimated maximum possible concentration (EMPC) values were treated as positives in the toxic equivalence calculations.

Second column confirmation analyses of 2,3,7,8-TCDF values obtained from the primary (DB5-MS) column are performed only when specifically requested for a project and only when the values are above the concentration of the lowest calibration standard. Typical resolution for this isomer using the DB5-MS column ranges from 25-30%.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 48-105%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show Blank-114102 to contain a trace level of OCDD. This level was below the calibration range of the method. The concentrations reported for OCDD in the associated field samples were higher than the corresponding blank level by one or more orders of magnitude.

Laboratory and matrix spike samples were also prepared using clean reference matrix or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds were generally recovered at 81-134% with relative percent differences (RPDs) of 0.0-67.9%. The background-subtracted recovery values obtained for OCDD in the matrix spike samples prepared using sample 'GVMC-SB-3(9-10)-01-1005' were outside the target range and flagged "R" on the results tables. Also, the RPD value obtained for OCDD in the matrix spike analyses prepared using sample 'GVMC-SB-3(9-10)-01-1005' was above the 20% target upper limit. These deviations may be due to the level of this congener in the sample material and/or sample inhomogeneity. Matrix spikes were not prepared with the sample batch extracted with Blank-114123. Matrix spikes were prepared with the sample batch extracted with Blank-114111 using sample material from a separate project; results from these analyses will be provided upon request.

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Pace Analytical Services, LLC
1700 Elm Street SE
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
		Missouri	10100
A2LA	2926.01	Montana	CERT0092
Alabama	40770	Nebraska	NE-OS-18-06
Alaska-DW	MN00064	Nevada	MN00064
Alaska-UST	17-009	New Hampshire	2081
Arizona	AZ0014	New Jersey	MN002
Arkansas - WW	88-0680	New York	11647
Arkansas-DW	MN00064	North Carolina-DW	27700
California	2929	North Carolina-WW	530
Colorado	MN00064	North Dakota	R-036
Connecticut	PH-0256	Ohio-DW	41244
Florida	E87605	Ohio-VAP (1700)	CL101
Georgia	959	Ohio-VAP (1800)	CL110
Hawaii	MN00064	Oklahoma	9507
Idaho	MN00064	Oregon-Primary	MN300001
Illinois	200011	Oregon-Secondary	MN200001
Indiana	C-MN-01	Pennsylvania	68-00563
Iowa	368	Puerto Rico	MN00064
Kansas	E-10167	South Carolina	74003
Kentucky-DW	90062	Tennessee	TN02818
Kentucky-WW	90062	Texas	T104704192
Louisiana-DEQ	AI-84596	Utah	MN00064
Louisiana-DW	MN00064	Vermont	VT-027053137
Maine	MN00064	Virginia	460163
Maryland	322	Washington	C486
Michigan	9909	West Virginia-DEP	382
Minnesota	027-053-137	West Virginia-DW	9952C
Minnesota-Ag	via MN 027-053-137	Wisconsin	999407970
Minnesota-Petrofund	1240	Wyoming-UST	via A2LA 2926.01
Mississippi	MN00064		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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www.pacelabs.com

Appendix A

Sample Management

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Internal Transfer Chain of Custody

Pace

☐ Rush Multiplier_____X
☐ Samples Pre-Logged into eCOC

State Of Origin: WV
Cert. Needed: [x] Yes ☐ No
Owner Received Date: 7/25/2024 **Results Requested By:** 8/7/2024

Workorder: 30704041 **Workorder Name:** GVMC/WV1966

Report To

Bobby Adams
Pace Beaver West Virginia
225 Industrial Park RD
Beaver, WV 25813
Phone (800)999-0105

Subcontract To

Pace Analytical Minnesota
1700 Elm Street SE
Suite 200
Minneapolis, MN 55414
Phone (612)607-1700

Requested Analysis

WO# : 10702418
10702418

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Dioxins and Furans	LAB USE ONLY
1	GVMC-SS-3(1-2)-01-1003 MS/MSD	RQS	7/23/2024 11:30	30704041003	Solid	3	X	MS/MSD
2	GVMC-SS-3(1-2)-01-1004	PS	7/23/2024 11:30	30704041004	Solid	1	X	
3	GVMC-SB-3(9-10)-01-1005 MS/MSD	RQS	7/23/2024 11:45	30704041005	Solid	3	X	MS/MSD
4	GVMC-SB-3(9-10)-01-1006	PS	7/23/2024 11:45	30704041006	Solid	1	X	
5	GVMC-SS-4(0-1)-01-1007	PS	7/23/2024 13:30	30704041007	Solid	1	X	
6	GVMC-SB-4(6-7)-01-1008	PS	7/23/2024 13:45	30704041008	Solid	1	X	
7	GVMC-SS-5(0-1)-01-1009	PS	7/23/2024 14:30	30704041009	Solid	1	X	
8	GVMC-SB-5(7-8)-01-1010	PS	7/23/2024 14:40	30704041010	Solid	1	X	
9	GVMC-SS-6(1-2)-01-1011	PS	7/23/2024 15:15	30704041011	Solid	1	X	
10	GVMC-SB-6(7-8)-01-1012	PS	7/23/2024 15:30	30704041012	Solid	1	X	
11	GVMC-SS-7(1-2)-01-1013	PS	7/24/2024 10:10	30704041013	Solid	1	X	
12	GVMC-SB-7(7-8)-01-1014	PS	7/24/2024 10:20	30704041014	Solid	1	X	
13	GVMC-SS-8(1-2)-01-1015	PS	7/24/2024 11:00	30704041015	Solid	1	X	
14	GVMC-SB-8(6-7)-01-1016	PS	7/24/2024 11:10	30704041016	Solid	1	X	

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	[illegible] 7-31-24	1230	Corey/Pace 8/1/24	9:40	Sampler - EA
2					
3					

Cooler Temperature on Receipt 2.1 °C	Custody Seal Y or (N)	Received on Ice (Y) or N	Samples Intact (Y) or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Report No....10702418_1613BFC_L2_dft

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical™

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE O

WO# : 30704041

30704041

ıber or

Company: Kleinfelder Environmental Services, Inc.	Billing Information:
Address: 108 Craddock Way, Suite 5, Poca, WV	
Report To: Abdo Chaker	Email To: achaker@kleinfelder.com
Copy To: Evan Bennett	Site Collection Info/Address: GVMC
Customer Project Name/Number: GVMC / WV19616	State: WV County/City: Kanawha/Gracia Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0949 Email: achaker@kleinfelder.com	Site/Facility ID #: GVMC
Collected By (print): Evan Bennett	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No	
DW PWS ID #: DW Location Code:	
Immediately Packed on Ice: [ ] Yes [ ] No	
Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____	

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Container	Container	Container	Container	Container	Container	Container	Container	Container	Container	Container	Container	Analyses: VOCs 8260	SVOCs 8270	PAHs 8270 E SIM	Total ACLA Arsenic Chromium Mercury) 6010	Dioxins and Furans										Lab Profile/Line:
GVMC-SS-1(1-2)-01-1001	SL	Grab	7/22/24	1510																	X	X	X	X										
GVMC-SB-1(9-10)-01-1002		Grab	7/22/24	1515																	X	X	X	X										
GVMC-SS-3(1-2)-01-1003		Grab	7/23/24	1130																	X	X	X	X	X									
GVMC-SS-3(1-2)-02-1004		Grab	7/23/24	1130																	X	X	X	X	X									
GVMC-SS-3(1-2)-01-1003MS		Grab	7/23/24	1130																	X	X	X	X	X									
GVMC-SS-3(1-2)-01-1003MSD		Grab	7/23/24	1130																	X	X	X	X	X									
GVMC-SB-3(9-10)-01-1005		Grab	7/23/24	1145																	X	X	X	X	X									
GVMC-SB-3(9-10)-02-1006		Grab	7/23/24	1145																	X	X	X	X	X									
GVMC-SB-3(9-10)-01-1005AK		Grab	7/23/24	1145																	X	X	X	X	X									
GVMC-SB-3(9-10)-02-1006MSD		Grab	7/23/24	1145																	X	X	X	X	X									

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949273

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 3.4 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 3.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 7/25/24 1345	Received by/Company: (Signature)	Date/Time: 7/25/24 13.45
Relinquished by/Company: (Signature) 1550	Date/Time: 7/25/24 1510	Received by/Company: (Signature)	Date/Time: 7/25/24 1510
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: _____ of: _____

Report No.....10702418_1613BFC_L2_dfr

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Kenon Environmental Services, Inc.	Billing Information:
Address: 108 Cuddark Way, Suite 5, Poca, WV	
Report To: Hoda Chaber	Email To: achaber@kenon.com
Copy To: Evan Arnett	Site Collection Info/Address: GVMC
Customer Project Name/Number: GVMC / WV1966	State: WV County/City: Greenbrier/Monroe Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0949 Email: achaber@kenon.com	Site/Facility ID #: GVMC
Collected By (print): Evan Arnett	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 E SIM	Total Acid Metals (Sb, As, Ba, Cd, Cr, Pb, Ni, Ag, Tl, Zn) 6010	Dioxins and Furans	
GVMC-SS-4(0-1)-01-1007	SL	Grab	7/23/24	1330					X	X	X	X	X	
GVMC-SB-4(6-7)-01-1008	SL	Grab	7/23/24	1345					X	X	X	X	X	
GVMC-SS-5(0-1)-01-1009	SL	Grab	7/23/24	1430					X	X	X	X	X	
GVMC-SB-5(6-8)-01-1010	SL	Grab	7/23/24	1440					X	X	X	X	X	
GVMC-SS-6(1-2)-01-1011	SL	Grab	7/23/24	1515					X	X	X	X	X	
GVMC-SB-6(7-8)-01-1012	SL	Grab	7/23/24	1530					X	X	X	X	X	
GVMC-SS-7(1-2)-01-1013	SL	Grab	7/24/24	1010					X	X	X	X	X	
GVMC-SB-7(7-8)-01-1014	SL	Grab	7/24/24	1020					X	X	X	X	X	
GVMC-SS-8(1-2)-01-1015	SL	Grab	7/24/24	1100					X	X	X	X	X	
GVMC-SB-8(6-7)-01-1016	SL	Grab	7/24/24	1110					X	X	X	X	X	

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949274

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 3.4 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 3.4 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 7/25/24 1400	Received by/Company: (Signature)	Date/Time: 7/25/24 1500	MTJL LAB USE ONLY
Relinquished by/Company: (Signature)	Date/Time: 7/25/24 15:10	Received by/Company: (Signature)	Date/Time: 7/25/24 1510	Table #: Acctnum: Template: Prelogin: PM: PB:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: of:

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Pace West Virginia **PROJECT #:** **WO#: 10702418**

COURIER: ☐ Client ☐ Commercial ☐ FedEx ☐ Pace ☐ SpeeDee ☑ UPS ☐ USPS

PM: JMR **Due Date: 08/07/24**
CLIENT: PASI-BVWV

TRACKING NUMBER: 1Z26X713 01 4478 3237 ☐ See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: ☐ YES ☑ NO **Seals Intact:** ☐ YES ☑ NO **Biological Tissue Frozen:** ☐ YES ☐ NO ☑ N/A

Packing Material: ☑ Bubble Bags ☐ Bubble Wrap ☐ None ☐ Other **Temp Blank:** ☐ YES ☑ NO **Type of Ice:** ☐ Blue ☐ Dry ☑ Wet ☐ Melted ☐ None

Thermometer: ☐ T1 (0461) ☐ T2 (0436) ☐ T3 (0459) ☑ T4 (0402) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9 (0727) ☐ 01339252 (1710)

Did Samples Originate in West Virginia: ☑ YES ☐ NO	**Were All Container Temps taken:** ☑ YES ☐ NO ☐ N/A
Correction Factor: 0.0 **Cooler Temp Read w/Temp Blank:** _____ °C **Cooler Temp Corrected w/Temp Blank:** _____ °C	**Average Corrected Temp (no Temp Blank Only):** 2.1 °C
NOTE: *Temp should be above freezing to 6°C.*	☑ See Exceptions Form ENV-FRM-MIN4-0142 ☐ 1 Container
USDA Regulated Soil: ☐ N/A – Water Sample/Other (describe): _____	**Initials & Date of Person Examining Contents:** CRL 8/1/24
Did Samples originate from one of the following states (check maps) – AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: ☐ YES ☑ NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): ☐ YES ☑ NO
NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.	

LOCATION (check one): ☐ DULUTH ☑ MINNEAPOLIS ☐ VIRGINIA	YES	NO	N/A	COMMENT(S)
Chain of Custody Present and Filled Out?	☑	☐		1.
Chain of Custody Relinquished?	☑	☐		2.
Sampler Name and/or Signature on COC?	☐	☐	☑	3.
Samples Arrived within Hold Time?	☑	☐		4. If Fecal: ☐ <8 hrs ☐ >8 hr, <24 hr ☐ No
Short Hold Time Analysis (<72 hr)?	☐	☑		5. ☐ BOD / cBOD ☐ Fecal coliform ☐ Hex Chrom ☐ HPC ☐ Nitrate ☐ Nitrite ☐ Ortho Phos ☐ Total coliform/*E. coli* ☐ Other: _____
Rush Turn Around Time Requested?	☑	☐		6. 8/7/24
Sufficient Sample Volume?	☑	☐		7.
Correct Containers Used? – Pace Containers Used?	☑ ☑	☐ ☐	☐	8.
Containers Intact?	☑	☐		9.
Field Filtered Volume Received for Dissolved Tests?	☐	☐	☑	10. Is sediment visible in the dissolved container: ☐ YES ☐ NO
Is sufficient information available to reconcile the samples to the COC? **NOTE:** If ID/Date/Time don't match fill out section 11. Matrix: ☐ Oil ☐ Soil ☐ Water ☑ Other Solid	☑	☐		**11. If NO, write ID/Date/Time of container below:** ☐ See Exceptions form ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☐	☐	☑	12. Sample #:
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide)	☐	☐	☑	☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	☐	☐	☑	Positive for Residual Chlorine: ☐ YES ☐ NO
NOTE: If adding preservation to the container, **verify with the PM first.** Clients may require adding preservative to the field and equipment blanks when this occurs.				**pH Paper Lot #** (Residual Chlorine / 0-6 Roll / 0-6 Strip / 0-14 Strip) ☐ See Exceptions form ENV-FRM-MIN4-0142
Headspace in Methyl Mercury Container?	☐	☐	☑	13.
Extra labels present on soil VOA or WIDRO containers?	☐	☐	☑	14.
Headspace in VOA Vials (greater than 6mm)?	☐	☐	☑	☐ See Exceptions form ENV-FRM-MIN4-0140
Trip Blanks Present?	☐	☐	☑	15.
Trip Blank Custody Seals Present?	☐	☐	☑	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION / RESOLUTION **FIELD DATA REQUIRED:** ☐ YES ☐ NO

Person Contacted: _____ Date & Time: _____

Comments / Resolution: _____

Project Manager Review: Joanne Richardson **Date:** 8-2-24

NOTE: *When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).*

Labeled By: CR **Line:** 3

Workorder #: 10702418

No Temp Blank		
Read Temp	**Corrected Temp**	**Average temp**
4.3		2.1
0.2		
0.7		
3.3		

PM Notified of Out of Temp Cooler? ☐ YES ☐ NO

If yes, indicate who was contacted, date and time.
If no, indicate reason why.

Multiple Cooler Project? ☐ YES ☐ NO

If anything is OVER 6.0°C, you MUST document containers in this section HERE

Tracking Number	Temperature

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	
								☐	☐	

Comments:

003: 1.1, 1.9, 2.7 004: 1.2 005: 2.6, 3.1, 3.1 006: 3.3 007: 2.6 008: 1.3 009: 3.1
010: 3.2 011: 4.3 012: 1.5 013: 0.2 014: 0.7 015: 2.9 016: 1.8

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

A = Reporting Limit based on signal to noise (EDL)

B = Less than 10x higher than method blank level

C = Result obtained from confirmation analysis

D = Result obtained from analysis of diluted sample

E = Exceeds calibration range

H2 = Extracted outside of holding time

I = Isotope ratio out of specification

J = Estimated value

L = Suppressive interference, analyte may be biased low

Nn = Value obtained from additional analysis

P = PCDE Interference

R = Recovery outside target range

S = Peak saturated

U = Analyte not detected

V = Result verified by confirmation analysis

X = %D Exceeds limits

Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-3(1-2)-01-1003		
Lab Sample ID	30704041003		
Filename	U240807A_09		
Injected By	SMT		
Total Amount Extracted	15.0 g	Matrix	SOLID
% Moisture	20.7	Dilution	NA
Dry Weight Extracted	11.9 g	Collected	07/23/2024 11:30
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 17:33

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.083	-----	0.082	J	2,3,7,8-TCDF-13C	2.00	70
Total TCDF	0.22	-----	0.082	J	2,3,7,8-TCDD-13C	2.00	58
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	< 0.089	-----	0.089		2,3,4,7,8-PeCDF-13C	2.00	77
Total TCDD	0.27	-----	0.089	J	1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	< 0.085	-----	0.085		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	-----	0.084	0.055	JI	2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	2.1	-----	0.055	J	1,2,3,7,8,9-HxCDF-13C	2.00	66
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	0.16	-----	0.038	J	1,2,3,6,7,8-HxCDD-13C	2.00	60
Total PeCDD	0.65	-----	0.038	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	55
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	0.58	-----	0.098	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	0.25	-----	0.098	J	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	0.37	-----	0.092	J			
1,2,3,7,8,9-HxCDF	< 0.12	-----	0.12		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	5.2	-----	0.092		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.46	0.049	JI	2,3,7,8-TCDD-37Cl4	0.20	58
1,2,3,6,7,8-HxCDD	0.59	-----	0.044	J			
1,2,3,7,8,9-HxCDD	0.70	-----	0.046	J			
Total HxCDD	6.9	-----	0.044				
1,2,3,4,6,7,8-HpCDF	4.2	-----	0.19	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.24	-----	0.24		Equivalence: 0.69 ng/Kg		
Total HpCDF	4.2	-----	0.19	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	12	-----	0.099				
Total HpCDD	23	-----	0.099				
OCDF	6.4	-----	0.14	J			
OCDD	120	-----	0.20				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-3(1-2)-01-1004		
Lab Sample ID	30704041004		
Filename	U240807A_10		
Injected By	SMT		
Total Amount Extracted	19.5 g	Matrix	SOLID
% Moisture	23.3	Dilution	NA
Dry Weight Extracted	15.0 g	Collected	07/23/2024 11:30
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 18:21

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.093	-----	0.093		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	0.20	-----	0.093	J	2,3,7,8-TCDD-13C	2.00	63
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	< 0.074	-----	0.074		2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	< 0.074	-----	0.074		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	< 0.058	-----	0.058		1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	< 0.035	-----	0.035		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	0.39	-----	0.035	J	1,2,3,7,8,9-HxCDF-13C	2.00	72
					1,2,3,4,7,8-HxCDD-13C	2.00	60
1,2,3,7,8-PeCDD	< 0.035	-----	0.035		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	< 0.035	-----	0.035		1,2,3,4,6,7,8-HpCDF-13C	2.00	58
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	-----	0.26	0.091	JI	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	< 0.087	-----	0.087		OCDD-13C	4.00	68
2,3,4,6,7,8-HxCDF	-----	0.082	0.081	JI			
1,2,3,7,8,9-HxCDF	< 0.10	-----	0.10		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.81	-----	0.081	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.27	-----	0.039	J	2,3,7,8-TCDD-37Cl4	0.20	64
1,2,3,6,7,8-HxCDD	0.16	-----	0.035	J			
1,2,3,7,8,9-HxCDD	-----	0.20	0.037	JI			
Total HxCDD	2.1	-----	0.035	J			
1,2,3,4,6,7,8-HpCDF	1.2	-----	0.15	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.18	-----	0.18		Equivalence: 0.18 ng/Kg		
Total HpCDF	1.2	-----	0.15	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	4.5	-----	0.059				
Total HpCDD	8.9	-----	0.059				
OCDF	2.2	-----	0.12	J			
OCDD	74	-----	0.22				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

Results reported on a dry weight basis and are valid to no more than 2 significant figures.
J = Estimated value
I = Isotope ratio out of specification

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-3(9-10)-01-1005		
Lab Sample ID	30704041005		
Filename	U240807A_11		
Injected By	SMT		
Total Amount Extracted	17.9 g	Matrix	SOLID
% Moisture	35.6	Dilution	NA
Dry Weight Extracted	11.5 g	Collected	07/23/2024 11:45
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 19:09

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.096	-----	0.072	J	2,3,7,8-TCDF-13C	2.00	83
Total TCDF	0.20	-----	0.072	J	2,3,7,8-TCDD-13C	2.00	71
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	< 0.083	-----	0.083		2,3,4,7,8-PeCDF-13C	2.00	88
Total TCDD	0.20	-----	0.083	J	1,2,3,7,8-PeCDD-13C	2.00	86
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	< 0.057	-----	0.057		1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	< 0.036	-----	0.036		2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	0.14	-----	0.036	J	1,2,3,7,8,9-HxCDF-13C	2.00	77
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	< 0.065	-----	0.065		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	< 0.065	-----	0.065		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	< 0.083	-----	0.083		1,2,3,4,6,7,8-HpCDD-13C	2.00	83
1,2,3,6,7,8-HxCDF	< 0.087	-----	0.087		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	< 0.080	-----	0.080				
1,2,3,7,8,9-HxCDF	< 0.099	-----	0.099		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.080	-----	0.080		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.21	-----	0.047	J	2,3,7,8-TCDD-37Cl4	0.20	75
1,2,3,6,7,8-HxCDD	-----	0.076	0.042	JI			
1,2,3,7,8,9-HxCDD	< 0.044	-----	0.044				
Total HxCDD	0.97	-----	0.042	J			
1,2,3,4,6,7,8-HpCDF	-----	0.17	0.15	JI	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.18	-----	0.18		Equivalence: 0.33 ng/Kg		
Total HpCDF	< 0.15	-----	0.15		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	5.0	-----	0.076				
Total HpCDD	10	-----	0.076				
OCDF	0.25	-----	0.22	J			
OCDD	790	-----	0.25				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
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Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-3(9-10)-01-1006		
Lab Sample ID	30704041006		
Filename	U240807A_12		
Injected By	SMT		
Total Amount Extracted	17.7 g	Matrix	SOLID
% Moisture	29.0	Dilution	NA
Dry Weight Extracted	12.6 g	Collected	07/23/2024 11:45
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 19:57

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.094	-----	0.094		2,3,7,8-TCDF-13C	2.00	66
Total TCDF	0.13	-----	0.094	J	2,3,7,8-TCDD-13C	2.00	59
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	< 0.13	-----	0.13		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.15	-----	0.13	J	1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	64
1,2,3,7,8-PeCDF	< 0.073	-----	0.073		1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	< 0.046	-----	0.046		2,3,4,6,7,8-HxCDF-13C	2.00	63
Total PeCDF	< 0.046	-----	0.046		1,2,3,7,8,9-HxCDF-13C	2.00	62
					1,2,3,4,7,8-HxCDD-13C	2.00	57
1,2,3,7,8-PeCDD	< 0.057	-----	0.057		1,2,3,6,7,8-HxCDD-13C	2.00	62
Total PeCDD	< 0.057	-----	0.057		1,2,3,4,6,7,8-HpCDF-13C	2.00	53
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	< 0.055	-----	0.055		1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	< 0.056	-----	0.056		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	< 0.057	-----	0.057				
1,2,3,7,8,9-HxCDF	< 0.069	-----	0.069		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.055	-----	0.055		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.19	0.093	JI	2,3,7,8-TCDD-37Cl4	0.20	63
1,2,3,6,7,8-HxCDD	-----	0.13	0.088	JI			
1,2,3,7,8,9-HxCDD	0.39	-----	0.090	J			
Total HxCDD	1.9	-----	0.088	J			
1,2,3,4,6,7,8-HpCDF	< 0.15	-----	0.15		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.20	-----	0.20		Equivalence: 0.43 ng/Kg		
Total HpCDF	< 0.15	-----	0.15		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	8.4	-----	0.14				
Total HpCDD	21	-----	0.14				
OCDF	< 0.28	-----	0.28				
OCDD	920	-----	0.40				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

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Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-4(0-1)-01-1007		
Lab Sample ID	30704041007		
Filename	U240807A_13		
Injected By	SMT		
Total Amount Extracted	16.2 g	Matrix	SOLID
% Moisture	19.5	Dilution	NA
Dry Weight Extracted	13.0 g	Collected	07/23/2024 13:30
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 20:44

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.071	-----	0.071		2,3,7,8-TCDF-13C	2.00	68
Total TCDF	0.21	-----	0.071	J	2,3,7,8-TCDD-13C	2.00	60
					1,2,3,7,8-PeCDF-13C	2.00	75
2,3,7,8-TCDD	< 0.10	-----	0.10		2,3,4,7,8-PeCDF-13C	2.00	76
Total TCDD	0.15	-----	0.10	J	1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	63
1,2,3,7,8-PeCDF	< 0.062	-----	0.062		1,2,3,6,7,8-HxCDF-13C	2.00	68
2,3,4,7,8-PeCDF	< 0.037	-----	0.037		2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	< 0.037	-----	0.037		1,2,3,7,8,9-HxCDF-13C	2.00	63
					1,2,3,4,7,8-HxCDD-13C	2.00	56
1,2,3,7,8-PeCDD	< 0.041	-----	0.041		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	< 0.041	-----	0.041		1,2,3,4,6,7,8-HpCDF-13C	2.00	55
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	-----	0.094	0.067	JI	1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	-----	0.072	0.062	JI	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	0.12	-----	0.061	J			
1,2,3,7,8,9-HxCDF	-----	0.12	0.077	JI	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	0.41	-----	0.061	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.20	-----	0.082	J	2,3,7,8-TCDD-37Cl4	0.20	64
1,2,3,6,7,8-HxCDD	0.12	-----	0.067	J			
1,2,3,7,8,9-HxCDD	< 0.074	-----	0.074				
Total HxCDD	0.93	-----	0.067	J			
1,2,3,4,6,7,8-HpCDF	0.44	-----	0.13	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.16	-----	0.16		Equivalence: 0.13 ng/Kg		
Total HpCDF	0.44	-----	0.13	J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1.8	-----	0.090	J			
Total HpCDD	3.5	-----	0.090	J			
OCDF	0.46	-----	0.24	J			
OCDD	110	-----	0.18				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
I = Isotope ratio out of specification

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Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-4(6-7)-01-1008		
Lab Sample ID	30704041008		
Filename	U240807A_14		
Injected By	SMT		
Total Amount Extracted	16.6 g	Matrix	SOLID
% Moisture	23.0	Dilution	NA
Dry Weight Extracted	12.8 g	Collected	07/23/2024 13:45
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 21:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.077	-----	0.077		2,3,7,8-TCDF-13C	2.00	69
Total TCDF	0.098	-----	0.077	J	2,3,7,8-TCDD-13C	2.00	60
					1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	< 0.100	-----	0.100		2,3,4,7,8-PeCDF-13C	2.00	85
Total TCDD	< 0.100	-----	0.100		1,2,3,7,8-PeCDD-13C	2.00	85
					1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	< 0.063	-----	0.063		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	< 0.036	-----	0.036		2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	< 0.036	-----	0.036		1,2,3,7,8,9-HxCDF-13C	2.00	67
					1,2,3,4,7,8-HxCDD-13C	2.00	61
1,2,3,7,8-PeCDD	< 0.035	-----	0.035		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	< 0.035	-----	0.035		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	< 0.044	-----	0.044		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	< 0.048	-----	0.048		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	< 0.045	-----	0.045				
1,2,3,7,8,9-HxCDF	-----	0.073	0.057	JI	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.044	-----	0.044		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.15	0.051	JI	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	< 0.046	-----	0.046				
1,2,3,7,8,9-HxCDD	-----	0.10	0.048	JI			
Total HxCDD	2.2	-----	0.046	J			
1,2,3,4,6,7,8-HpCDF	< 0.098	-----	0.098		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.13	-----	0.13		Equivalence: 0.16 ng/Kg		
Total HpCDF	< 0.098	-----	0.098		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	2.8	-----	0.10	J			
Total HpCDD	6.3	-----	0.10				
OCDF	< 0.19	-----	0.19				
OCDD	350	-----	0.30				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-5(0-1)-01-1009		
Lab Sample ID	30704041009		
Filename	U240807A_15		
Injected By	SMT		
Total Amount Extracted	17.0 g	Matrix	SOLID
% Moisture	16.5	Dilution	NA
Dry Weight Extracted	14.2 g	Collected	07/23/2024 14:30
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 22:20

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	5.8	-----	0.14		2,3,7,8-TCDF-13C	2.00	65
Total TCDF	170	-----	0.14		2,3,7,8-TCDD-13C	2.00	56
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	0.89	-----	0.12		2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	59	-----	0.12		1,2,3,7,8-PeCDD-13C	2.00	75
					1,2,3,4,7,8-HxCDF-13C	2.00	59
1,2,3,7,8-PeCDF	6.4	-----	0.21		1,2,3,6,7,8-HxCDF-13C	2.00	62
2,3,4,7,8-PeCDF	12	-----	0.13		2,3,4,6,7,8-HxCDF-13C	2.00	57
Total PeCDF	140	-----	0.13		1,2,3,7,8,9-HxCDF-13C	2.00	55
					1,2,3,4,7,8-HxCDD-13C	2.00	51
1,2,3,7,8-PeCDD	2.8	-----	0.050	J	1,2,3,6,7,8-HxCDD-13C	2.00	59
Total PeCDD	80	-----	0.050		1,2,3,4,6,7,8-HpCDF-13C	2.00	48
					1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	13	-----	0.21		1,2,3,4,6,7,8-HpCDD-13C	2.00	58
1,2,3,6,7,8-HxCDF	12	-----	0.20		OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	15	-----	0.21				
1,2,3,7,8,9-HxCDF	3.3	-----	0.27	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	130	-----	0.20		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	4.0	-----	0.15		2,3,7,8-TCDD-37Cl4	0.20	59
1,2,3,6,7,8-HxCDD	6.6	-----	0.13				
1,2,3,7,8,9-HxCDD	5.8	-----	0.14				
Total HxCDD	120	-----	0.13				
1,2,3,4,6,7,8-HpCDF	51	-----	0.23		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	3.5	-----	0.30		Equivalence: 15 ng/Kg		
Total HpCDF	62	-----	0.23		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	54	-----	0.12				
Total HpCDD	110	-----	0.12				
OCDF	18	-----	0.16				
OCDD	700	-----	0.21				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
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J = Estimated value

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-5(7-8)-01-1010		
Lab Sample ID	30704041010		
Filename	U240807A_16		
Injected By	SMT		
Total Amount Extracted	20.4 g	Matrix	SOLID
% Moisture	22.5	Dilution	NA
Dry Weight Extracted	15.8 g	Collected	07/23/2024 14:40
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 23:07

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.059	0.055	JI	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	0.076	-----	0.055	J	2,3,7,8-TCDD-13C	2.00	71
					1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	< 0.096	-----	0.096		2,3,4,7,8-PeCDF-13C	2.00	95
Total TCDD	< 0.096	-----	0.096		1,2,3,7,8-PeCDD-13C	2.00	98
					1,2,3,4,7,8-HxCDF-13C	2.00	73
1,2,3,7,8-PeCDF	< 0.062	-----	0.062		1,2,3,6,7,8-HxCDF-13C	2.00	76
2,3,4,7,8-PeCDF	< 0.036	-----	0.036		2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	< 0.036	-----	0.036		1,2,3,7,8,9-HxCDF-13C	2.00	70
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	< 0.033	-----	0.033		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	< 0.033	-----	0.033		1,2,3,4,6,7,8-HpCDF-13C	2.00	58
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	< 0.029	-----	0.029		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	< 0.033	-----	0.033		OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	< 0.033	-----	0.033				
1,2,3,7,8,9-HxCDF	-----	0.049	0.042	JI	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.029	-----	0.029		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.12	0.043	JI	2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	0.073	-----	0.036	J			
1,2,3,7,8,9-HxCDD	-----	0.050	0.039	JI			
Total HxCDD	0.073	-----	0.036	J			
1,2,3,4,6,7,8-HpCDF	< 0.086	-----	0.086		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.11	-----	0.11		Equivalence: 0.058 ng/Kg		
Total HpCDF	< 0.086	-----	0.086		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.92	-----	0.079	J			
Total HpCDD	2.0	-----	0.079	J			
OCDF	< 0.11	-----	0.11				
OCDD	45	-----	0.16				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-6(1-2)-01-1011		
Lab Sample ID	30704041011		
Filename	U240807A_17		
Injected By	SMT		
Total Amount Extracted	15.5 g	Matrix	SOLID
% Moisture	16.5	Dilution	NA
Dry Weight Extracted	12.9 g	Collected	07/23/2024 15:15
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/07/2024 23:55

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.082	0.067	JI	2,3,7,8-TCDF-13C	2.00	86
Total TCDF	< 0.067	-----	0.067		2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	100
2,3,7,8-TCDD	< 0.12	-----	0.12		2,3,4,7,8-PeCDF-13C	2.00	103
Total TCDD	< 0.12	-----	0.12		1,2,3,7,8-PeCDD-13C	2.00	105
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	< 0.055	-----	0.055		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	< 0.035	-----	0.035		2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	< 0.035	-----	0.035		1,2,3,7,8,9-HxCDF-13C	2.00	79
					1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	< 0.044	-----	0.044		1,2,3,6,7,8-HxCDD-13C	2.00	82
Total PeCDD	< 0.044	-----	0.044		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	70
1,2,3,4,7,8-HxCDF	< 0.033	-----	0.033		1,2,3,4,6,7,8-HpCDD-13C	2.00	79
1,2,3,6,7,8-HxCDF	< 0.036	-----	0.036		OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	< 0.036	-----	0.036				
1,2,3,7,8,9-HxCDF	-----	0.068	0.048	JI	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.033	-----	0.033		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.15	0.073	JI	2,3,7,8-TCDD-37Cl4	0.20	76
1,2,3,6,7,8-HxCDD	< 0.070	-----	0.070				
1,2,3,7,8,9-HxCDD	< 0.071	-----	0.071				
Total HxCDD	< 0.070	-----	0.070				
1,2,3,4,6,7,8-HpCDF	< 0.12	-----	0.12		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.15	-----	0.15		Equivalence: 0.041 ng/Kg		
Total HpCDF	< 0.12	-----	0.12		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.54	-----	0.062	J			
Total HpCDD	1.0	-----	0.062	J			
OCDF	< 0.15	-----	0.15				
OCDD	20	-----	0.14				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
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Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-6(7-8)-01-1012		
Lab Sample ID	30704041012		
Filename	U240807A_18		
Injected By	SMT		
Total Amount Extracted	16.9 g	Matrix	SOLID
% Moisture	24.6	Dilution	NA
Dry Weight Extracted	12.7 g	Collected	07/23/2024 15:30
ICAL ID	U240423	Received	08/01/2024 09:40
CCal Filename(s)	U240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114102	Analyzed	08/08/2024 00:43

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.088	-----	0.044	J	2,3,7,8-TCDF-13C	2.00	75
Total TCDF	0.088	-----	0.044	J	2,3,7,8-TCDD-13C	2.00	62
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	< 0.074	-----	0.074		2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	< 0.074	-----	0.074		1,2,3,7,8-PeCDD-13C	2.00	78
					1,2,3,4,7,8-HxCDF-13C	2.00	66
1,2,3,7,8-PeCDF	< 0.037	-----	0.037		1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	< 0.023	-----	0.023		2,3,4,6,7,8-HxCDF-13C	2.00	64
Total PeCDF	< 0.023	-----	0.023		1,2,3,7,8,9-HxCDF-13C	2.00	67
					1,2,3,4,7,8-HxCDD-13C	2.00	59
1,2,3,7,8-PeCDD	< 0.029	-----	0.029		1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	< 0.029	-----	0.029		1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	< 0.040	-----	0.040		1,2,3,4,6,7,8-HpCDD-13C	2.00	68
1,2,3,6,7,8-HxCDF	< 0.041	-----	0.041		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	< 0.042	-----	0.042				
1,2,3,7,8,9-HxCDF	-----	0.079	0.047	JI	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.040	-----	0.040		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.14	0.061	JI	2,3,7,8-TCDD-37Cl4	0.20	63
1,2,3,6,7,8-HxCDD	0.091	-----	0.051	J			
1,2,3,7,8,9-HxCDD	0.097	-----	0.055	J			
Total HxCDD	0.66	-----	0.051	J			
1,2,3,4,6,7,8-HpCDF	< 0.14	-----	0.14		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.17	-----	0.17		Equivalence: 0.12 ng/Kg		
Total HpCDF	< 0.14	-----	0.14		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1.6	-----	0.049	J			
Total HpCDD	3.7	-----	0.049	J			
OCDF	< 0.14	-----	0.14				
OCDD	200	-----	0.11				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

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Tel: 612-607-1700
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Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-7(1-2)-01-1013		
Lab Sample ID	30704041013		
Filename	F240808A_11		
Injected By	SMT		
Total Amount Extracted	17.0 g	Matrix	SOLID
% Moisture	18.8	Dilution	NA
Dry Weight Extracted	13.8 g	Collected	07/24/2024 10:10
ICAL ID	F240604	Received	08/01/2024 09:40
CCal Filename(s)	F240808A_06	Extracted	08/06/2024 14:00
Method Blank ID	BLANK-114123	Analyzed	08/08/2024 11:25

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	-----	0.35	0.14	JI	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	0.26	-----	0.14	J	2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	< 0.094	-----	0.094		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	< 0.094	-----	0.094		1,2,3,7,8-PeCDD-13C	2.00	76
					1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	< 0.14	-----	0.14		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	< 0.12	-----	0.12		2,3,4,6,7,8-HxCDF-13C	2.00	89
Total PeCDF	< 0.12	-----	0.12		1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	< 0.11	-----	0.11		1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	< 0.11	-----	0.11		1,2,3,4,6,7,8-HpCDF-13C	2.00	72
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	< 0.048	-----	0.048		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	< 0.051	-----	0.051		OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	< 0.11	-----	0.11				
1,2,3,7,8,9-HxCDF	< 0.065	-----	0.065		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.048	-----	0.048		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	0.18	-----	0.13	J	2,3,7,8-TCDD-37Cl4	0.20	61
1,2,3,6,7,8-HxCDD	< 0.11	-----	0.11				
1,2,3,7,8,9-HxCDD	< 0.12	-----	0.12				
Total HxCDD	0.18	-----	0.11	J			
1,2,3,4,6,7,8-HpCDF	< 0.13	-----	0.13		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.10	-----	0.10		Equivalence: 0.090 ng/Kg		
Total HpCDF	< 0.10	-----	0.10		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.97	-----	0.10	J			
Total HpCDD	0.97	-----	0.10	J			
OCDF	< 0.19	-----	0.19				
OCDD	90	-----	0.12				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-7(7-8)-01-1014		
Lab Sample ID	30704041014		
Filename	F240807A_14		
Injected By	SMT		
Total Amount Extracted	16.1 g	Matrix	SOLID
% Moisture	19.6	Dilution	NA
Dry Weight Extracted	12.9 g	Collected	07/24/2024 10:20
ICAL ID	F240604	Received	08/01/2024 09:40
CCal Filename(s)	F240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114111	Analyzed	08/07/2024 20:33

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.073	-----	0.073		2,3,7,8-TCDF-13C	2.00	55
Total TCDF	< 0.073	-----	0.073		2,3,7,8-TCDD-13C	2.00	52
					1,2,3,7,8-PeCDF-13C	2.00	62
2,3,7,8-TCDD	< 0.094	-----	0.094		2,3,4,7,8-PeCDF-13C	2.00	63
Total TCDD	0.16	-----	0.094	J	1,2,3,7,8-PeCDD-13C	2.00	66
					1,2,3,4,7,8-HxCDF-13C	2.00	72
1,2,3,7,8-PeCDF	< 0.16	-----	0.16		1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	< 0.13	-----	0.13		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF	< 0.13	-----	0.13		1,2,3,7,8,9-HxCDF-13C	2.00	65
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	< 0.13	-----	0.13		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	< 0.13	-----	0.13		1,2,3,4,6,7,8-HpCDF-13C	2.00	60
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	< 0.056	-----	0.056		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	< 0.059	-----	0.059		OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	< 0.055	-----	0.055				
1,2,3,7,8,9-HxCDF	< 0.066	-----	0.066		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.055	-----	0.055		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	< 0.091	-----	0.091		2,3,7,8-TCDD-37Cl4	0.20	48
1,2,3,6,7,8-HxCDD	< 0.075	-----	0.075				
1,2,3,7,8,9-HxCDD	< 0.082	-----	0.082				
Total HxCDD	0.43	-----	0.075	J			
1,2,3,4,6,7,8-HpCDF	-----	0.086	0.081	JI	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.089	-----	0.089		Equivalence: 0.058 ng/Kg		
Total HpCDF	< 0.081	-----	0.081		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	1.6	-----	0.093	J			
Total HpCDD	1.6	-----	0.093	J			
OCDF	< 0.30	-----	0.30				
OCDD	140	-----	0.32				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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J = Estimated value
I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-8(1-2)-01-1015		
Lab Sample ID	30704041015		
Filename	F240807A_15		
Injected By	SMT		
Total Amount Extracted	18.1 g	Matrix	SOLID
% Moisture	19.7	Dilution	NA
Dry Weight Extracted	14.5 g	Collected	07/24/2024 11:00
ICAL ID	F240604	Received	08/01/2024 09:40
CCal Filename(s)	F240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114111	Analyzed	08/07/2024 21:18

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.088	-----	0.088		2,3,7,8-TCDF-13C	2.00	74
Total TCDF	< 0.088	-----	0.088		2,3,7,8-TCDD-13C	2.00	67
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	< 0.077	-----	0.077		2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	< 0.077	-----	0.077		1,2,3,7,8-PeCDD-13C	2.00	81
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	< 0.068	-----	0.068		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	< 0.060	-----	0.060		2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	< 0.060	-----	0.060		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	74
1,2,3,7,8-PeCDD	< 0.089	-----	0.089		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	< 0.089	-----	0.089		1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	< 0.098	-----	0.098		1,2,3,4,6,7,8-HpCDD-13C	2.00	61
1,2,3,6,7,8-HxCDF	< 0.098	-----	0.098		OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	< 0.097	-----	0.097				
1,2,3,7,8,9-HxCDF	< 0.12	-----	0.12		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.097	-----	0.097		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	-----	0.16	0.084	JI	2,3,7,8-TCDD-37Cl4	0.20	62
1,2,3,6,7,8-HxCDD	< 0.072	-----	0.072				
1,2,3,7,8,9-HxCDD	< 0.077	-----	0.077				
Total HxCDD	< 0.072	-----	0.072				
1,2,3,4,6,7,8-HpCDF	< 0.14	-----	0.14		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.17	-----	0.17		Equivalence: 0.024 ng/Kg		
Total HpCDF	< 0.14	-----	0.14		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.45	-----	0.14	J			
Total HpCDD	0.90	-----	0.14	J			
OCDF	< 0.40	-----	0.40				
OCDD	9.9	-----	0.84				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
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I = Isotope ratio out of specification

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Method 1613B Sample Analysis Results

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-8(6-7)-01-1016		
Lab Sample ID	30704041016		
Filename	F240807A_16		
Injected By	SMT		
Total Amount Extracted	16.9 g	Matrix	SOLID
% Moisture	16.6	Dilution	NA
Dry Weight Extracted	14.1 g	Collected	07/24/2024 11:10
ICAL ID	F240604	Received	08/01/2024 09:40
CCal Filename(s)	F240807A_04	Extracted	08/05/2024 14:00
Method Blank ID	BLANK-114111	Analyzed	08/07/2024 22:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.081	-----	0.081	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	< 0.081	-----	0.081	2,3,7,8-TCDD-13C	2.00	69
				1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	< 0.097	-----	0.097	2,3,4,7,8-PeCDF-13C	2.00	82
Total TCDD	< 0.097	-----	0.097	1,2,3,7,8-PeCDD-13C	2.00	84
				1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	< 0.094	-----	0.094	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	< 0.084	-----	0.084	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	< 0.084	-----	0.084	1,2,3,7,8,9-HxCDF-13C	2.00	77
				1,2,3,4,7,8-HxCDD-13C	2.00	75
1,2,3,7,8-PeCDD	< 0.099	-----	0.099	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	< 0.099	-----	0.099	1,2,3,4,6,7,8-HpCDF-13C	2.00	68
				1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	< 0.099	-----	0.099	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	< 0.095	-----	0.095	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	< 0.087	-----	0.087			
1,2,3,7,8,9-HxCDF	< 0.11	-----	0.11	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.087	-----	0.087	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	< 0.13	-----	0.13	2,3,7,8-TCDD-37Cl4	0.20	60
1,2,3,6,7,8-HxCDD	< 0.11	-----	0.11			
1,2,3,7,8,9-HxCDD	< 0.12	-----	0.12			
Total HxCDD	< 0.11	-----	0.11			
1,2,3,4,6,7,8-HpCDF	< 0.098	-----	0.098	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.12	-----	0.12	Equivalence: 0.0055 ng/Kg		
Total HpCDF	< 0.098	-----	0.098	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	0.29	-----	0.11 J			
Total HpCDD	0.29	-----	0.11 J			
OCDF	< 0.34	-----	0.34			
OCDD	8.6	-----	0.47			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

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J = Estimated value

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKYV		
Lab Sample ID	BLANK-114102	Matrix	Solid
Filename	F240807A_11	Dilution	NA
Total Amount Extracted	10.6 g	Extracted	08/05/2024 14:00
ICAL ID	F240604	Analyzed	08/07/2024 18:19
CCal Filename(s)	F240807A_04	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.15	-----	0.15		2,3,7,8-TCDF-13C	2.00	72
Total TCDF	< 0.15	-----	0.15		2,3,7,8-TCDD-13C	2.00	64
					1,2,3,7,8-PeCDF-13C	2.00	69
2,3,7,8-TCDD	< 0.13	-----	0.13		2,3,4,7,8-PeCDF-13C	2.00	73
Total TCDD	< 0.13	-----	0.13		1,2,3,7,8-PeCDD-13C	2.00	77
					1,2,3,4,7,8-HxCDF-13C	2.00	80
1,2,3,7,8-PeCDF	< 0.23	-----	0.23		1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	< 0.20	-----	0.20		2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	< 0.20	-----	0.20		1,2,3,7,8,9-HxCDF-13C	2.00	75
					1,2,3,4,7,8-HxCDD-13C	2.00	70
1,2,3,7,8-PeCDD	< 0.21	-----	0.21		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	< 0.21	-----	0.21		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	< 0.15	-----	0.15		1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	< 0.16	-----	0.16		OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	< 0.14	-----	0.14				
1,2,3,7,8,9-HxCDF	< 0.18	-----	0.18		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.14	-----	0.14		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	< 0.24	-----	0.24		2,3,7,8-TCDD-37Cl4	0.20	58
1,2,3,6,7,8-HxCDD	< 0.20	-----	0.20				
1,2,3,7,8,9-HxCDD	< 0.22	-----	0.22				
Total HxCDD	< 0.20	-----	0.20				
1,2,3,4,6,7,8-HpCDF	< 0.18	-----	0.18		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.21	-----	0.21		Equivalence: 0.0025 ng/Kg		
Total HpCDF	< 0.18	-----	0.18		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.22	0.19	JI			
Total HpCDD	< 0.19	-----	0.19				
OCDF	< 0.52	-----	0.52				
OCDD	0.97	-----	0.51	J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKYY		
Lab Sample ID	BLANK-114111	Matrix	Solid
Filename	F240807A_12	Dilution	NA
Total Amount Extracted	10.0 g	Extracted	08/05/2024 14:00
ICAL ID	F240604	Analyzed	08/07/2024 19:04
CCal Filename(s)	F240807A_04	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.14	-----	0.14	2,3,7,8-TCDF-13C	2.00	84
Total TCDF	< 0.14	-----	0.14	2,3,7,8-TCDD-13C	2.00	75
				1,2,3,7,8-PeCDF-13C	2.00	86
2,3,7,8-TCDD	< 0.20	-----	0.20	2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	< 0.20	-----	0.20	1,2,3,7,8-PeCDD-13C	2.00	91
				1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	< 0.26	-----	0.26	1,2,3,6,7,8-HxCDF-13C	2.00	93
2,3,4,7,8-PeCDF	< 0.23	-----	0.23	2,3,4,6,7,8-HxCDF-13C	2.00	96
Total PeCDF	< 0.23	-----	0.23	1,2,3,7,8,9-HxCDF-13C	2.00	88
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	< 0.16	-----	0.16	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	< 0.16	-----	0.16	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65
1,2,3,4,7,8-HxCDF	< 0.19	-----	0.19	1,2,3,4,6,7,8-HpCDD-13C	2.00	66
1,2,3,6,7,8-HxCDF	< 0.20	-----	0.20	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	< 0.17	-----	0.17			
1,2,3,7,8,9-HxCDF	< 0.23	-----	0.23	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.17	-----	0.17	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	< 0.17	-----	0.17	2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	< 0.17	-----	0.17			
1,2,3,7,8,9-HxCDD	< 0.17	-----	0.17			
Total HxCDD	< 0.17	-----	0.17			
1,2,3,4,6,7,8-HpCDF	< 0.32	-----	0.32	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.40	-----	0.40	Equivalence: 0.00 ng/Kg		
Total HpCDF	< 0.32	-----	0.32	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	< 0.21	-----	0.21			
Total HpCDD	< 0.21	-----	0.21			
OCDF	< 1.4	-----	1.4			
OCDD	< 1.5	-----	1.5			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKZC		
Lab Sample ID	BLANK-114123	Matrix	Solid
Filename	F240808A_10	Dilution	NA
Total Amount Extracted	20.2 g	Extracted	08/06/2024 14:00
ICAL ID	F240604	Analyzed	08/08/2024 10:41
CCal Filename(s)	F240808A_06	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	EDL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	< 0.053	-----	0.053		2,3,7,8-TCDF-13C	2.00	73
Total TCDF	< 0.053	-----	0.053		2,3,7,8-TCDD-13C	2.00	63
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	< 0.048	-----	0.048		2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD	< 0.048	-----	0.048		1,2,3,7,8-PeCDD-13C	2.00	73
					1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	< 0.14	-----	0.14		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	< 0.053	-----	0.053		2,3,4,6,7,8-HxCDF-13C	2.00	90
Total PeCDF	< 0.053	-----	0.053		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	71
1,2,3,7,8-PeCDD	< 0.14	-----	0.14		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	< 0.14	-----	0.14		1,2,3,4,6,7,8-HpCDF-13C	2.00	63
					1,2,3,4,7,8,9-HpCDF-13C	2.00	69
1,2,3,4,7,8-HxCDF	-----	0.046	0.035	JI	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	< 0.038	-----	0.038		OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	< 0.038	-----	0.038				
1,2,3,7,8,9-HxCDF	-----	0.064	0.056	JI	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	< 0.035	-----	0.035		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	< 0.059	-----	0.059		2,3,7,8-TCDD-37Cl4	0.20	56
1,2,3,6,7,8-HxCDD	< 0.051	-----	0.051				
1,2,3,7,8,9-HxCDD	< 0.054	-----	0.054				
Total HxCDD	< 0.051	-----	0.051				
1,2,3,4,6,7,8-HpCDF	< 0.049	-----	0.049		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	< 0.061	-----	0.061		Equivalence: 0.013 ng/Kg		
Total HpCDF	< 0.049	-----	0.049		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	-----	0.18	0.052	JI			
Total HpCDD	< 0.052	-----	0.052				
OCDF	< 0.14	-----	0.14				
OCDD	-----	0.29	0.28	JI			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-114103		
Filename	F240807A_07	Matrix	Solid
Total Amount Extracted	10.2 g	Dilution	NA
ICAL ID	F240604	Extracted	08/05/2024 14:00
CCal Filename	F240807A_04	Analyzed	08/07/2024 15:21
Method Blank ID	BLANK-114102	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	9.9	7.5	15.8	99
2,3,7,8-TCDD	10	9.9	6.7	15.8	99
1,2,3,7,8-PeCDF	50	54	40.0	67.0	108
2,3,4,7,8-PeCDF	50	51	34.0	80.0	101
1,2,3,7,8-PeCDD	50	48	35.0	71.0	96
1,2,3,4,7,8-HxCDF	50	48	36.0	67.0	96
1,2,3,6,7,8-HxCDF	50	50	42.0	65.0	100
2,3,4,6,7,8-HxCDF	50	50	35.0	78.0	99
1,2,3,7,8,9-HxCDF	50	51	39.0	65.0	102
1,2,3,4,7,8-HxCDD	50	56	35.0	82.0	113
1,2,3,6,7,8-HxCDD	50	51	38.0	67.0	102
1,2,3,7,8,9-HxCDD	50	43	32.0	81.0	86
1,2,3,4,6,7,8-HpCDF	50	47	41.0	61.0	94
1,2,3,4,7,8,9-HpCDF	50	44	39.0	69.0	88
1,2,3,4,6,7,8-HpCDD	50	45	35.0	70.0	90
OCDF	100	110	63.0	170.0	107
OCDD	100	100	78.0	144.0	105
2,3,7,8-TCDD-37Cl4	10	4.3	3.1	19.1	43
2,3,7,8-TCDF-13C	100	51	22.0	152.0	51
2,3,7,8-TCDD-13C	100	46	20.0	175.0	46
1,2,3,7,8-PeCDF-13C	100	51	21.0	192.0	51
2,3,4,7,8-PeCDF-13C	100	53	13.0	328.0	53
1,2,3,7,8-PeCDD-13C	100	54	21.0	227.0	54
1,2,3,4,7,8-HxCDF-13C	100	61	19.0	202.0	61
1,2,3,6,7,8-HxCDF-13C	100	60	21.0	159.0	60
2,3,4,6,7,8-HxCDF-13C	100	56	22.0	176.0	56
1,2,3,7,8,9-HxCDF-13C	100	47	17.0	205.0	47
1,2,3,4,7,8-HxCDD-13C	100	53	21.0	193.0	53
1,2,3,6,7,8-HxCDD-13C	100	54	25.0	163.0	54
1,2,3,4,6,7,8-HpCDF-13C	100	53	21.0	158.0	53
1,2,3,4,7,8,9-HpCDF-13C	100	50	20.0	186.0	50
1,2,3,4,6,7,8-HpCDD-13C	100	54	26.0	166.0	54
OCDD-13C	200	82	26.0	397.0	41

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-114112		
Filename	F240807A_08	Matrix	Solid
Total Amount Extracted	10.0 g	Dilution	NA
ICAL ID	F240604	Extracted	08/05/2024 14:00
CCal Filename	F240807A_04	Analyzed	08/07/2024 16:05
Method Blank ID	BLANK-114111	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	9.7	7.5	15.8	97
2,3,7,8-TCDD	10	10	6.7	15.8	101
1,2,3,7,8-PeCDF	50	55	40.0	67.0	110
2,3,4,7,8-PeCDF	50	50	34.0	80.0	100
1,2,3,7,8-PeCDD	50	45	35.0	71.0	91
1,2,3,4,7,8-HxCDF	50	50	36.0	67.0	101
1,2,3,6,7,8-HxCDF	50	55	42.0	65.0	110
2,3,4,6,7,8-HxCDF	50	51	35.0	78.0	103
1,2,3,7,8,9-HxCDF	50	50	39.0	65.0	99
1,2,3,4,7,8-HxCDD	50	56	35.0	82.0	112
1,2,3,6,7,8-HxCDD	50	49	38.0	67.0	98
1,2,3,7,8,9-HxCDD	50	51	32.0	81.0	102
1,2,3,4,6,7,8-HpCDF	50	49	41.0	61.0	99
1,2,3,4,7,8,9-HpCDF	50	43	39.0	69.0	86
1,2,3,4,6,7,8-HpCDD	50	48	35.0	70.0	95
OCDF	100	110	63.0	170.0	114
OCDD	100	110	78.0	144.0	113
2,3,7,8-TCDD-37Cl4	10	5.8	3.1	19.1	58
2,3,7,8-TCDF-13C	100	68	22.0	152.0	68
2,3,7,8-TCDD-13C	100	62	20.0	175.0	62
1,2,3,7,8-PeCDF-13C	100	74	21.0	192.0	74
2,3,4,7,8-PeCDF-13C	100	77	13.0	328.0	77
1,2,3,7,8-PeCDD-13C	100	80	21.0	227.0	80
1,2,3,4,7,8-HxCDF-13C	100	78	19.0	202.0	78
1,2,3,6,7,8-HxCDF-13C	100	71	21.0	159.0	71
2,3,4,6,7,8-HxCDF-13C	100	76	22.0	176.0	76
1,2,3,7,8,9-HxCDF-13C	100	76	17.0	205.0	76
1,2,3,4,7,8-HxCDD-13C	100	68	21.0	193.0	68
1,2,3,6,7,8-HxCDD-13C	100	69	25.0	163.0	69
1,2,3,4,6,7,8-HpCDF-13C	100	68	21.0	158.0	68
1,2,3,4,7,8,9-HpCDF-13C	100	74	20.0	186.0	74
1,2,3,4,6,7,8-HpCDD-13C	100	74	26.0	166.0	74
OCDD-13C	200	120	26.0	397.0	62

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-114124		
Filename	F240808A_07	Matrix	Solid
Total Amount Extracted	20.1 g	Dilution	NA
ICAL ID	F240604	Extracted	08/06/2024 14:00
CCal Filename	F240808A_06	Analyzed	08/08/2024 08:28
Method Blank ID	BLANK-114123	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	109
2,3,7,8-TCDD	10	10	6.7	15.8	103
1,2,3,7,8-PeCDF	50	59	40.0	67.0	118
2,3,4,7,8-PeCDF	50	56	34.0	80.0	111
1,2,3,7,8-PeCDD	50	52	35.0	71.0	104
1,2,3,4,7,8-HxCDF	50	52	36.0	67.0	103
1,2,3,6,7,8-HxCDF	50	55	42.0	65.0	110
2,3,4,6,7,8-HxCDF	50	60	35.0	78.0	119
1,2,3,7,8,9-HxCDF	50	56	39.0	65.0	111
1,2,3,4,7,8-HxCDD	50	67	35.0	82.0	134
1,2,3,6,7,8-HxCDD	50	61	38.0	67.0	121
1,2,3,7,8,9-HxCDD	50	58	32.0	81.0	116
1,2,3,4,6,7,8-HpCDF	50	56	41.0	61.0	112
1,2,3,4,7,8,9-HpCDF	50	54	39.0	69.0	107
1,2,3,4,6,7,8-HpCDD	50	49	35.0	70.0	97
OCDF	100	130	63.0	170.0	131
OCDD	100	110	78.0	144.0	113
2,3,7,8-TCDD-37Cl4	10	6.7	3.1	19.1	67
2,3,7,8-TCDF-13C	100	87	22.0	152.0	87
2,3,7,8-TCDD-13C	100	76	20.0	175.0	76
1,2,3,7,8-PeCDF-13C	100	87	21.0	192.0	87
2,3,4,7,8-PeCDF-13C	100	89	13.0	328.0	89
1,2,3,7,8-PeCDD-13C	100	82	21.0	227.0	82
1,2,3,4,7,8-HxCDF-13C	100	140	19.0	202.0	137
1,2,3,6,7,8-HxCDF-13C	100	130	21.0	159.0	128
2,3,4,6,7,8-HxCDF-13C	100	120	22.0	176.0	115
1,2,3,7,8,9-HxCDF-13C	100	110	17.0	205.0	106
1,2,3,4,7,8-HxCDD-13C	100	87	21.0	193.0	87
1,2,3,6,7,8-HxCDD-13C	100	90	25.0	163.0	90
1,2,3,4,6,7,8-HpCDF-13C	100	66	21.0	158.0	66
1,2,3,4,7,8,9-HpCDF-13C	100	64	20.0	186.0	64
1,2,3,4,6,7,8-HpCDD-13C	100	70	26.0	166.0	70
OCDD-13C	200	99	26.0	397.0	49

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-114126		
Filename	F240808A_08	Matrix	Solid
Total Amount Extracted	20.2 g	Dilution	NA
ICAL ID	F240604	Extracted	08/06/2024 14:00
CCal Filename	F240808A_06	Analyzed	08/08/2024 09:12
Method Blank ID	BLANK-114123	Injected By	SMT

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	10	7.5	15.8	105
2,3,7,8-TCDD	10	10.0	6.7	15.8	100
1,2,3,7,8-PeCDF	50	59	40.0	67.0	119
2,3,4,7,8-PeCDF	50	52	34.0	80.0	105
1,2,3,7,8-PeCDD	50	51	35.0	71.0	101
1,2,3,4,7,8-HxCDF	50	51	36.0	67.0	102
1,2,3,6,7,8-HxCDF	50	56	42.0	65.0	112
2,3,4,6,7,8-HxCDF	50	54	35.0	78.0	108
1,2,3,7,8,9-HxCDF	50	55	39.0	65.0	110
1,2,3,4,7,8-HxCDD	50	64	35.0	82.0	128
1,2,3,6,7,8-HxCDD	50	60	38.0	67.0	121
1,2,3,7,8,9-HxCDD	50	63	32.0	81.0	126
1,2,3,4,6,7,8-HpCDF	50	54	41.0	61.0	109
1,2,3,4,7,8,9-HpCDF	50	49	39.0	69.0	98
1,2,3,4,6,7,8-HpCDD	50	47	35.0	70.0	93
OCDF	100	130	63.0	170.0	134
OCDD	100	120	78.0	144.0	121
2,3,7,8-TCDD-37Cl4	10	6.4	3.1	19.1	64
2,3,7,8-TCDF-13C	100	84	22.0	152.0	84
2,3,7,8-TCDD-13C	100	72	20.0	175.0	72
1,2,3,7,8-PeCDF-13C	100	83	21.0	192.0	83
2,3,4,7,8-PeCDF-13C	100	87	13.0	328.0	87
1,2,3,7,8-PeCDD-13C	100	81	21.0	227.0	81
1,2,3,4,7,8-HxCDF-13C	100	120	19.0	202.0	117
1,2,3,6,7,8-HxCDF-13C	100	110	21.0	159.0	107
2,3,4,6,7,8-HxCDF-13C	100	110	22.0	176.0	108
1,2,3,7,8,9-HxCDF-13C	100	110	17.0	205.0	108
1,2,3,4,7,8-HxCDD-13C	100	78	21.0	193.0	78
1,2,3,6,7,8-HxCDD-13C	100	80	25.0	163.0	80
1,2,3,4,6,7,8-HpCDF-13C	100	79	21.0	158.0	79
1,2,3,4,7,8,9-HpCDF-13C	100	82	20.0	186.0	82
1,2,3,4,6,7,8-HpCDD-13C	100	84	26.0	166.0	84
OCDD-13C	200	130	26.0	397.0	67

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client	PASI Beaver West Virginia		
Spike 1 ID	LCS-114124	Spike 2 ID	LCSD-114126
Spike 1 Filename	F240808A_07	Spike 2 Filename	F240808A_08

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	109	105	3.7
2,3,7,8-TCDD	103	100	3.0
1,2,3,7,8-PeCDF	118	119	0.8
2,3,4,7,8-PeCDF	111	105	5.6
1,2,3,7,8-PeCDD	104	101	2.9
1,2,3,4,7,8-HxCDF	103	102	1.0
1,2,3,6,7,8-HxCDF	110	112	1.8
2,3,4,6,7,8-HxCDF	119	108	9.7
1,2,3,7,8,9-HxCDF	111	110	0.9
1,2,3,4,7,8-HxCDD	134	128	4.6
1,2,3,6,7,8-HxCDD	121	121	0.0
1,2,3,7,8,9-HxCDD	116	126	8.3
1,2,3,4,6,7,8-HpCDF	112	109	2.7
1,2,3,4,7,8,9-HpCDF	107	98	8.8
1,2,3,4,6,7,8-HpCDD	97	93	4.2
OCDF	131	134	2.3
OCDD	113	121	6.8

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

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Method 1613B Spiked Sample Report

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-3(1-2)-01-1003-MS		
Lab Sample ID	30704041003-MS		
Filename	U240807A_06	Matrix	SOLID
Total Amount Extracted	16.3 g	Dilution	NA
ICAL ID	U240423	Extracted	08/05/2024 14:00
CCal Filename(s)	U240807A_04	Analyzed	08/07/2024 15:10
Method Blank ID	BLANK-114102	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	104	2,3,7,8-TCDF-13C	2.00	70
Total TCDF				2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	0.20	0.23	114	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	79
				1,2,3,4,7,8-HxCDF-13C	2.00	68
1,2,3,7,8-PeCDF	1.00	0.99	99	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	1.00	0.95	95	2,3,4,6,7,8-HxCDF-13C	2.00	67
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	66
				1,2,3,4,7,8-HxCDD-13C	2.00	58
1,2,3,7,8-PeCDD	1.00	0.95	95	1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	59
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	1.00	1.01	100	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	1.00	1.00	100	OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	1.00	0.98	98			
1,2,3,7,8,9-HxCDF	1.00	0.96	96	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.13	113	2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	1.00	0.99	98			
1,2,3,7,8,9-HxCDD	1.00	0.98	97			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.03	97			
1,2,3,4,7,8,9-HpCDF	1.00	1.00	100			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	1.06	91			
Total HpCDD						
OCDF	2.00	2.12	102			
OCDD	2.00	3.97	121			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

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Method 1613B Spiked Sample Report

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SS-3(1-2)-01-1003-MSD		
Lab Sample ID	30704041003-MSD		
Filename	U240807A_07	Matrix	SOLID
Total Amount Extracted	16.7 g	Dilution	NA
ICAL ID	U240423	Extracted	08/05/2024 14:00
CCal Filename(s)	U240807A_04	Analyzed	08/07/2024 15:58
Method Blank ID	BLANK-114102	Injected By	SMT

Native Isomers	**Qs** (ng)	**Qm** (ng)	% Rec.	**Internal Standards**	**ng's Added**	**Percent Recovery**
2,3,7,8-TCDF	0.20	0.20	101	2,3,7,8-TCDF-13C	2.00	71
Total TCDF				2,3,7,8-TCDD-13C	2.00	61
				1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	0.20	0.23	115	2,3,4,7,8-PeCDF-13C	2.00	79
Total TCDD				1,2,3,7,8-PeCDD-13C	2.00	78
				1,2,3,4,7,8-HxCDF-13C	2.00	66
1,2,3,7,8-PeCDF	1.00	0.98	98	1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	1.00	0.91	91	2,3,4,6,7,8-HxCDF-13C	2.00	66
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.00	67
				1,2,3,4,7,8-HxCDD-13C	2.00	60
1,2,3,7,8-PeCDD	1.00	0.92	91	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.00	56
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	1.00	0.96	95	1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	1.00	0.98	98	OCDD-13C	4.00	62
2,3,4,6,7,8-HxCDF	1.00	0.97	96			
1,2,3,7,8,9-HxCDF	1.00	0.98	98	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.06	106	2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	1.00	0.96	95			
1,2,3,7,8,9-HxCDD	1.00	0.99	98			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.00	1.02	96			
1,2,3,4,7,8,9-HpCDF	1.00	0.93	93			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.00	0.97	81			
Total HpCDD						
OCDF	2.00	2.06	99			
OCDD	2.00	3.32	87			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Spiked Sample Report

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-3(9-10)-01-1005-MS		
Lab Sample ID	30704041005-MS		
Filename	U240808A_09	Matrix	SOLID
Total Amount Extracted	16.4 g	Dilution	NA
ICAL ID	U240423	Extracted	08/05/2024 14:00
CCal Filename(s)	U240808A_06	Analyzed	08/08/2024 08:59
Method Blank ID	BLANK-114102	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	104		2,3,7,8-TCDF-13C	2.00	76
Total TCDF					2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	0.20	0.21	107		2,3,4,7,8-PeCDF-13C	2.00	97
Total TCDD					1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	71
1,2,3,7,8-PeCDF	1.00	0.97	97		1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	1.00	0.91	91		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF					1,2,3,7,8,9-HxCDF-13C	2.00	67
					1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	1.00	0.89	89		1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD					1,2,3,4,6,7,8-HpCDF-13C	2.00	56
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	1.00	0.94	94		1,2,3,4,6,7,8-HpCDD-13C	2.00	64
1,2,3,6,7,8-HxCDF	1.00	0.97	97		OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	1.00	0.95	95				
1,2,3,7,8,9-HxCDF	1.00	0.95	95		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF					1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.03	103		2,3,7,8-TCDD-37Cl4	0.20	65
1,2,3,6,7,8-HxCDD	1.00	0.92	92				
1,2,3,7,8,9-HxCDD	1.00	0.92	92				
Total HxCDD							
1,2,3,4,6,7,8-HpCDF	1.00	0.97	97				
1,2,3,4,7,8,9-HpCDF	1.00	0.91	91				
Total HpCDF							
1,2,3,4,6,7,8-HpCDD	1.00	0.93	88				
Total HpCDD							
OCDF	2.00	1.84	92				
OCDD	2.00	4.04	0	R			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 1613B Spiked Sample Report

Client - PASI Beaver West Virginia

Client's Sample ID	GVMC-SB-3(9-10)-01-1005-MSD		
Lab Sample ID	30704041005-MSD		
Filename	U240807A_05	Matrix	SOLID
Total Amount Extracted	16.5 g	Dilution	NA
ICAL ID	U240423	Extracted	08/05/2024 14:00
CCal Filename(s)	U240807A_04	Analyzed	08/07/2024 14:24
Method Blank ID	BLANK-114102	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.21	104		2,3,7,8-TCDF-13C	2.00	74
Total TCDF					2,3,7,8-TCDD-13C	2.00	65
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	0.20	0.22	112		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD					1,2,3,7,8-PeCDD-13C	2.00	83
					1,2,3,4,7,8-HxCDF-13C	2.00	69
1,2,3,7,8-PeCDF	1.00	1.04	104		1,2,3,6,7,8-HxCDF-13C	2.00	72
2,3,4,7,8-PeCDF	1.00	0.93	93		2,3,4,6,7,8-HxCDF-13C	2.00	68
Total PeCDF					1,2,3,7,8,9-HxCDF-13C	2.00	67
					1,2,3,4,7,8-HxCDD-13C	2.00	58
1,2,3,7,8-PeCDD	1.00	0.99	99		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD					1,2,3,4,6,7,8-HpCDF-13C	2.00	59
					1,2,3,4,7,8,9-HpCDF-13C	2.00	63
1,2,3,4,7,8-HxCDF	1.00	0.96	96		1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	1.00	1.02	102		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	1.00	1.00	100				
1,2,3,7,8,9-HxCDF	1.00	1.02	102		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF					1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.11	110		2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	1.00	0.97	97				
1,2,3,7,8,9-HxCDD	1.00	0.96	96				
Total HxCDD							
1,2,3,4,6,7,8-HpCDF	1.00	1.04	104				
1,2,3,4,7,8,9-HpCDF	1.00	1.01	101				
Total HpCDF							
1,2,3,4,6,7,8-HpCDD	1.00	0.98	93				
Total HpCDD							
OCDF	2.00	2.09	104				
OCDD	2.00	8.19	0	R			

Qs = Quantity Spiked Qm = Quantity Measured Rec. = Recovery (Expressed as Percent)

%REC = Percent Recovered
RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Method 1613 Spike Sample Results

Client - PASI Beaver West Virginia

Client Sample ID	GVMC-SS-3(1-2)-01-1003		
Lab Sample ID	30704041003	Sample Filename	U240807A_09
MS ID	30704041003-MS	MS Filename	U240807A_06
MSD ID	30704041003-MSD	MSD Filename	U240807A_07

	Quantity	Unspiked Sample Contribution		Quantity Measured			Subtracted Recovery	
	Spiked	to MS	to MSD	MS	MSD		MS	MSD
Analyte	(ng)	(ng)	(ng)	(ng)	(ng)	RPD	(%)	(%)
2,3,7,8-TCDF	0.20	0.00108	0.00110	0.21	0.20	2.9	104	101
2,3,7,8-TCDD	0.20	ND	ND	0.23	0.23	0.5	114	115
1,2,3,7,8-PeCDF	1.00	ND	ND	0.99	0.98	0.3	99	98
2,3,4,7,8-PeCDF	1.00	0.00122	0.00124	0.95	0.91	4.1	95	91
1,2,3,7,8-PeCDD	1.00	0.00208	0.00213	0.95	0.92	3.9	95	91
1,2,3,4,7,8-HxCDF	1.00	0.00757	0.00774	1.01	0.96	5.1	100	95
1,2,3,6,7,8-HxCDF	1.00	0.00324	0.00332	1.00	0.98	2.2	100	98
2,3,4,6,7,8-HxCDF	1.00	0.00485	0.00496	0.98	0.97	1.8	98	96
1,2,3,7,8,9-HxCDF	1.00	ND	ND	0.96	0.98	2.5	96	98
1,2,3,4,7,8-HxCDD	1.00	0.00648	0.00662	1.13	1.06	5.9	113	106
1,2,3,6,7,8-HxCDD	1.00	0.00763	0.00780	0.99	0.96	2.9	98	95
1,2,3,7,8,9-HxCDD	1.00	0.00909	0.00929	0.98	0.99	0.6	97	98
1,2,3,4,6,7,8-HpCDF	1.00	0.0541	0.0553	1.03	1.02	0.9	97	96
1,2,3,4,7,8,9-HpCDF	1.00	ND	ND	1.00	0.93	7.3	100	93
1,2,3,4,6,7,8-HpCDD	1.00	0.151	0.154	1.06	0.97	9.0	91	81
OCDF	2.00	0.0832	0.0850	2.12	2.06	3.1	102	99
OCDD	2.00	1.55	1.58	3.97	3.32	17.9	121	87

Quantity Spiked - the amount of analyte spiked into the spiked samples
Unspiked Sample Contribution - calculated based on the amount found in the sample and the extracted amounts of the spiked and unspiked samples
Quantity Measured - the total amount of analyte measured in the spiked samples
RPD - the Relative Percent Difference of the spiked sample Quantity Measured values
Subtracted Recovery - calculated after subtracting the unspiked sample contribution

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Method 1613 Spike Sample Results

Client - PASI Beaver West Virginia

Client Sample ID	GVMC-SB-3(9-10)-01-1005		
Lab Sample ID	30704041005	Sample Filename	U240807A_11
MS ID	30704041005-MS	MS Filename	U240808A_09
MSD ID	30704041005-MSD	MSD Filename	U240807A_05

	Quantity	Unspiked Sample Contribution		Quantity Measured			Subtracted Recovery	
	Spiked	to MS	to MSD	MS	MSD		MS	MSD
Analyte	(ng)	(ng)	(ng)	(ng)	(ng)	RPD	(%)	(%)
2,3,7,8-TCDF	0.20	0.00101	0.00102	0.21	0.21	0.5	104	104
2,3,7,8-TCDD	0.20	ND	ND	0.21	0.22	4.5	107	112
1,2,3,7,8-PeCDF	1.00	ND	ND	0.97	1.04	7.4	97	104
2,3,4,7,8-PeCDF	1.00	ND	ND	0.91	0.93	2.1	91	93
1,2,3,7,8-PeCDD	1.00	ND	ND	0.89	0.99	10.8	89	99
1,2,3,4,7,8-HxCDF	1.00	ND	ND	0.94	0.96	2.1	94	96
1,2,3,6,7,8-HxCDF	1.00	ND	ND	0.97	1.02	5.2	97	102
2,3,4,6,7,8-HxCDF	1.00	ND	ND	0.95	1.00	4.4	95	100
1,2,3,7,8,9-HxCDF	1.00	ND	ND	0.95	1.02	6.9	95	102
1,2,3,4,7,8-HxCDD	1.00	0.00218	0.00219	1.03	1.11	7.0	103	110
1,2,3,6,7,8-HxCDD	1.00	0.000891	0.000895	0.92	0.97	5.8	92	97
1,2,3,7,8,9-HxCDD	1.00	ND	ND	0.92	0.96	4.9	92	96
1,2,3,4,6,7,8-HpCDF	1.00	0.00247	0.00248	0.97	1.04	7.1	97	104
1,2,3,4,7,8,9-HpCDF	1.00	ND	ND	0.91	1.01	10.3	91	101
1,2,3,4,6,7,8-HpCDD	1.00	0.0523	0.0525	0.93	0.98	5.3	88	93
OCDF	2.00	0.00265	0.00266	1.84	2.09	12.3	92	104
OCDD	2.00	8.34	8.37	4.04	8.19	67.9	0	0

Quantity Spiked - the amount of analyte spiked into the spiked samples
Unspiked Sample Contribution - calculated based on the amount found in the sample and the extracted amounts of the spiked and unspiked samples
Quantity Measured - the total amount of analyte measured in the spiked samples
RPD - the Relative Percent Difference of the spiked sample Quantity Measured values
Subtracted Recovery - calculated after subtracting the unspiked sample contribution

Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

June 25, 2025

Abdo Chaber
KEMRON ENVIRONMENTAL / POCA
108 Craddock Way, Suite 5
Poca, WV 25159

RE: Project: WV1966-Revised Report
Pace Project No.: 30705771

Dear Abdo Chaber:

Enclosed are the analytical results for sample(s) received by the laboratory on August 02, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

Revision 3 - This report replaces the 6/24/2025 report. This project was revised on 6/25/2025 to update qualifier codes.

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

Sincerely,

Bobby Adams
bobby.adams@pacelabs.com
(800)999-0105
Project Manager

Enclosures

cc: Mr. Evan Amick, KEMRON ENVIRONMENTAL / POCA
Ms. Rawa Fleisher, Kemron Environmental
Ms. Terry Fondren, KEMRON ENVIRONMENTAL / POCA
Mr. Chris Hedrick, Kemron Environmental Services
Mr. Chris Jackson, KEMRON ENVIRONMENTAL / POCA
Mr. TERRY WILFONG, KEMRON ENVIRONMENTAL / POCA

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

CERTIFICATIONS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Beaver

225 Industrial Park Road, Beaver, WV 25813
New York DOH Lab ID12167 SN69208
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

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Beaver, WV 25813
(800)999-0105

SAMPLE SUMMARY

Project: WV1966-Revised Report
Pace Project No.: 30705771

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30705771001	**GVMC-SS-2(1-2)-01-1017**	Solid	07/31/24 13:25	08/02/24 14:00
30705771002	**GVMC-SB-2(7-8)-01-1018**	Solid	07/31/24 13:30	08/02/24 14:00
30705771003	**GVMC-SS-9(1-2)-01-1019**	Solid	07/31/24 16:30	08/02/24 14:00
30705771004	**GVMC-SB-9(7-8)-01-1020**	Solid	07/31/24 16:40	08/02/24 14:00
30705771005	**GVMC-SS-10(1-2)-01-1021**	Solid	08/01/24 09:25	08/02/24 14:00
30705771006	**GVMC-SB-10(7-8)-01-1022**	Solid	08/01/24 11:25	08/02/24 14:00
30705771007	**GVMC-SS-11(1-2)-01-1023**	Solid	08/01/24 13:00	08/02/24 14:00
30705771008	**GVMC-SB-11(7-8)-01-1024**	Solid	08/01/24 13:15	08/02/24 14:00
30705771009	**GVMC-SS-12(1-2)-01-1025**	Solid	08/01/24 15:20	08/02/24 14:00
30705771010	**GVMC-SS-12(1-2)-02-1026**	Solid	08/01/24 15:20	08/02/24 14:00
30705771011	**GVMC-SB-12(7-8)-01-1027**	Solid	08/01/24 15:30	08/02/24 14:00
30705771012	**GVMC-SB-12(7-8)-02-1028**	Solid	08/01/24 15:30	08/02/24 14:00
30705771013	**GVMC-SS-13(1-2)-01-1031**	Solid	08/02/24 09:40	08/02/24 14:00
30705771014	**GVMC-SB-13(7-8)-01-1032**	Solid	08/02/24 09:45	08/02/24 14:00
30705771015	**GVMC-SS-14(1-2)-01-1033**	Solid	08/02/24 11:00	08/02/24 14:00
30705771016	**GVMC-SB-14(7-8)-01-1034**	Solid	08/02/24 11:10	08/02/24 14:00
30705771017	**GVMC-EB-1-01-1029**	Water	08/01/24 16:10	08/02/24 14:00
30705771018	**GVMC-EB-2-01-1030**	Water	08/02/24 08:30	08/02/24 14:00
30705771019	**TRIP BLANK**	Water	08/01/24 00:00	08/02/24 14:00

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Beaver, WV 25813
(800)999-0105

SAMPLE ANALYTE COUNT

Project: WV1966-Revised Report
Pace Project No.: 30705771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30705771001	**GVMC-SS-2(1-2)-01-1017**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771002	**GVMC-SB-2(7-8)-01-1018**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771003	**GVMC-SS-9(1-2)-01-1019**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771004	**GVMC-SB-9(7-8)-01-1020**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771005	**GVMC-SS-10(1-2)-01-1021**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771006	**GVMC-SB-10(7-8)-01-1022**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771007	**GVMC-SS-11(1-2)-01-1023**	EPA 6010D	AGB	7	PASI-BV

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE ANALYTE COUNT

Project: WV1966-Revised Report
Pace Project No.: 30705771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771008	**GVMC-SB-11(7-8)-01-1024**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771009	**GVMC-SS-12(1-2)-01-1025**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771010	**GVMC-SS-12(1-2)-02-1026**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771011	**GVMC-SB-12(7-8)-01-1027**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771012	**GVMC-SB-12(7-8)-02-1028**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771013	**GVMC-SS-13(1-2)-01-1031**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE ANALYTE COUNT

Project: WV1966-Revised Report
Pace Project No.: 30705771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771014	**GVMC-SB-13(7-8)-01-1032**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771015	**GVMC-SS-14(1-2)-01-1033**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771016	**GVMC-SB-14(7-8)-01-1034**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	JEW	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30705771017	**GVMC-EB-1-01-1029**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	AJC	52	PASI-PA
30705771018	**GVMC-EB-2-01-1030**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	DSC	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	AJC	52	PASI-PA
30705771019	**TRIP BLANK**	EPA 8260D	AJC	52	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-2(1-2)-01-1017 **Lab ID: 30705771001** Collected: 07/31/24 13:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**10.1**	mg/kg	6.1	0.42	1	08/05/24 08:49	08/06/24 16:36	7440-38-2	
Barium	**70.2**	mg/kg	6.1	0.44	1	08/05/24 08:49	08/06/24 16:36	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/05/24 08:49	08/06/24 16:36	7440-43-9	
Chromium	**34.4**	mg/kg	6.1	0.77	1	08/05/24 08:49	08/06/24 16:36	7440-47-3	
Lead	**27.9**	mg/kg	6.1	0.63	1	08/05/24 08:49	08/06/24 16:36	7439-92-1	
Selenium	ND	mg/kg	6.1	1.2	1	08/05/24 08:49	08/06/24 16:36	7782-49-2	
Silver	ND	mg/kg	3.0	0.43	1	08/05/24 08:49	08/06/24 16:36	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.12**	mg/kg	0.025	0.023	1	08/06/24 12:11	08/08/24 10:08	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.1	2.1	1	08/12/24 10:36	08/13/24 15:32	83-32-9	
Acenaphthylene	ND	ug/kg	8.1	1.7	1	08/12/24 10:36	08/13/24 15:32	208-96-8	
Anthracene	**6.2J**	ug/kg	8.1	1.6	1	08/12/24 10:36	08/13/24 15:32	120-12-7	
Benzo(a)anthracene	**21.2**	ug/kg	8.1	2.1	1	08/12/24 10:36	08/13/24 15:32	56-55-3	
Benzo(a)pyrene	**25.4**	ug/kg	8.1	3.5	1	08/12/24 10:36	08/13/24 15:32	50-32-8	
Benzo(b)fluoranthene	**47.1**	ug/kg	8.1	2.3	1	08/12/24 10:36	08/13/24 15:32	205-99-2	lp
Benzo(g,h,i)perylene	**22.1**	ug/kg	8.1	1.2	1	08/12/24 10:36	08/13/24 15:32	191-24-2	
Benzo(k)fluoranthene	**44.0**	ug/kg	8.1	1.4	1	08/12/24 10:36	08/13/24 15:32	207-08-9	lp
Chrysene	**23.4**	ug/kg	8.1	1.3	1	08/12/24 10:36	08/13/24 15:32	218-01-9	
Dibenz(a,h)anthracene	**4.6J**	ug/kg	8.1	1.6	1	08/12/24 10:36	08/13/24 15:32	53-70-3	
Fluoranthene	**43.6**	ug/kg	8.1	5.4	1	08/12/24 10:36	08/13/24 15:32	206-44-0	
Fluorene	ND	ug/kg	16.0	8.3	1	08/12/24 10:36	08/13/24 15:32	86-73-7	
Indeno(1,2,3-cd)pyrene	**15.1**	ug/kg	8.1	3.1	1	08/12/24 10:36	08/13/24 15:32	193-39-5	
Naphthalene	**4.2J**	ug/kg	8.1	3.4	1	08/12/24 10:36	08/13/24 15:32	91-20-3	
Phenanthrene	**25.3**	ug/kg	16.0	4.8	1	08/12/24 10:36	08/13/24 15:32	85-01-8	
Pyrene	**36.2**	ug/kg	8.1	7.1	1	08/12/24 10:36	08/13/24 15:32	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%.	46-99		1	08/12/24 10:36	08/13/24 15:32	321-60-8	
Terphenyl-d14 (S)	80	%.	48-118		1	08/12/24 10:36	08/13/24 15:32	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	399	59.3	1	08/09/24 10:01	08/13/24 17:36	83-32-9	
Acenaphthylene	ND	ug/kg	399	120	1	08/09/24 10:01	08/13/24 17:36	208-96-8	
Anthracene	ND	ug/kg	399	91.7	1	08/09/24 10:01	08/13/24 17:36	120-12-7	
Azobenzene	ND	ug/kg	399	141	1	08/09/24 10:01	08/13/24 17:36	103-33-3	
Benzo(a)anthracene	ND	ug/kg	399	69.1	1	08/09/24 10:01	08/13/24 17:36	56-55-3	
Benzo(a)pyrene	ND	ug/kg	399	124	1	08/09/24 10:01	08/13/24 17:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	399	121	1	08/09/24 10:01	08/13/24 17:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	399	138	1	08/09/24 10:01	08/13/24 17:36	191-24-2	

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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-2(1-2)-01-1017 **Lab ID: 30705771001** Collected: 07/31/24 13:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	399	176	1	08/09/24 10:01	08/13/24 17:36	207-08-9	
Benzoic acid	ND	ug/kg	5990	2020	1	08/09/24 10:01	08/13/24 17:36	65-85-0	
Benzyl alcohol	ND	ug/kg	399	353	1	08/09/24 10:01	08/13/24 17:36	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	399	147	1	08/09/24 10:01	08/13/24 17:36	101-55-3	
Butylbenzylphthalate	ND	ug/kg	399	112	1	08/09/24 10:01	08/13/24 17:36	85-68-7	
Carbazole	ND	ug/kg	399	157	1	08/09/24 10:01	08/13/24 17:36	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	399	64.3	1	08/09/24 10:01	08/13/24 17:36	59-50-7	
4-Chloroaniline	ND	ug/kg	399	70.2	1	08/09/24 10:01	08/13/24 17:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	399	69.4	1	08/09/24 10:01	08/13/24 17:36	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	399	72.9	1	08/09/24 10:01	08/13/24 17:36	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	399	113	1	08/09/24 10:01	08/13/24 17:36	108-60-1	
2-Chloronaphthalene	ND	ug/kg	399	114	1	08/09/24 10:01	08/13/24 17:36	91-58-7	
2-Chlorophenol	ND	ug/kg	399	56.9	1	08/09/24 10:01	08/13/24 17:36	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	399	115	1	08/09/24 10:01	08/13/24 17:36	7005-72-3	
Chrysene	ND	ug/kg	399	59.2	1	08/09/24 10:01	08/13/24 17:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	399	152	1	08/09/24 10:01	08/13/24 17:36	53-70-3	
Dibenzofuran	ND	ug/kg	399	128	1	08/09/24 10:01	08/13/24 17:36	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	399	52.5	1	08/09/24 10:01	08/13/24 17:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	399	49.7	1	08/09/24 10:01	08/13/24 17:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	399	55.1	1	08/09/24 10:01	08/13/24 17:36	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	399	117	1	08/09/24 10:01	08/13/24 17:36	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	399	67.8	1	08/09/24 10:01	08/13/24 17:36	120-83-2	
Diethylphthalate	ND	ug/kg	399	141	1	08/09/24 10:01	08/13/24 17:36	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	399	121	1	08/09/24 10:01	08/13/24 17:36	105-67-9	
Dimethylphthalate	ND	ug/kg	399	123	1	08/09/24 10:01	08/13/24 17:36	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3190	2920	1	08/09/24 10:01	08/13/24 17:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	999	297	1	08/09/24 10:01	08/13/24 17:36	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	999	898	1	08/09/24 10:01	08/13/24 17:36	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	399	121	1	08/09/24 10:01	08/13/24 17:36	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	399	121	1	08/09/24 10:01	08/13/24 17:36	606-20-2	
Di-n-octylphthalate	ND	ug/kg	399	263	1	08/09/24 10:01	08/13/24 17:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	399	127	1	08/09/24 10:01	08/13/24 17:36	117-81-7	
Fluoranthene	ND	ug/kg	399	129	1	08/09/24 10:01	08/13/24 17:36	206-44-0	
Fluorene	ND	ug/kg	399	122	1	08/09/24 10:01	08/13/24 17:36	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	399	62.6	1	08/09/24 10:01	08/13/24 17:36	87-68-3	
Hexachlorobenzene	ND	ug/kg	399	115	1	08/09/24 10:01	08/13/24 17:36	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	399	192	1	08/09/24 10:01	08/13/24 17:36	77-47-4	
Hexachloroethane	ND	ug/kg	399	108	1	08/09/24 10:01	08/13/24 17:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	399	150	1	08/09/24 10:01	08/13/24 17:36	193-39-5	
Isophorone	ND	ug/kg	399	57.6	1	08/09/24 10:01	08/13/24 17:36	78-59-1	
1-Methylnaphthalene	ND	ug/kg	399	100	1	08/09/24 10:01	08/13/24 17:36	90-12-0	
2-Methylnaphthalene	ND	ug/kg	399	58.4	1	08/09/24 10:01	08/13/24 17:36	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	399	144	1	08/09/24 10:01	08/13/24 17:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	798	245	1	08/09/24 10:01	08/13/24 17:36		

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-2(1-2)-01-1017 **Lab ID: 30705771001** Collected: 07/31/24 13:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	999	139	1	08/09/24 10:01	08/13/24 17:36	88-74-4	
3-Nitroaniline	ND	ug/kg	999	261	1	08/09/24 10:01	08/13/24 17:36	99-09-2	
4-Nitroaniline	ND	ug/kg	999	560	1	08/09/24 10:01	08/13/24 17:36	100-01-6	
Nitrobenzene	ND	ug/kg	399	57.3	1	08/09/24 10:01	08/13/24 17:36	98-95-3	
2-Nitrophenol	ND	ug/kg	399	74.8	1	08/09/24 10:01	08/13/24 17:36	88-75-5	
4-Nitrophenol	ND	ug/kg	399	134	1	08/09/24 10:01	08/13/24 17:36	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	399	68.4	1	08/09/24 10:01	08/13/24 17:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	399	70.3	1	08/09/24 10:01	08/13/24 17:36	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	399	90.0	1	08/09/24 10:01	08/13/24 17:36	86-30-6	
Pentachlorophenol	ND	ug/kg	999	526	1	08/09/24 10:01	08/13/24 17:36	87-86-5	
Phenanthrene	ND	ug/kg	399	72.4	1	08/09/24 10:01	08/13/24 17:36	85-01-8	
Phenol	ND	ug/kg	399	118	1	08/09/24 10:01	08/13/24 17:36	108-95-2	
Pyrene	ND	ug/kg	399	146	1	08/09/24 10:01	08/13/24 17:36	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	399	108	1	08/09/24 10:01	08/13/24 17:36	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	999	118	1	08/09/24 10:01	08/13/24 17:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	399	104	1	08/09/24 10:01	08/13/24 17:36	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	84	%.	32-154		1	08/09/24 10:01	08/13/24 17:36	4165-60-0	
2-Fluorobiphenyl (S)	81	%.	50-144		1	08/09/24 10:01	08/13/24 17:36	321-60-8	
Terphenyl-d14 (S)	94	%.	57-146		1	08/09/24 10:01	08/13/24 17:36	1718-51-0	
Phenol-d6 (S)	87	%.	54-121		1	08/09/24 10:01	08/13/24 17:36	13127-88-3	
2-Fluorophenol (S)	87	%.	57-124		1	08/09/24 10:01	08/13/24 17:36	367-12-4	
2,4,6-Tribromophenol (S)	90	%.	44-127		1	08/09/24 10:01	08/13/24 17:36	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	44.6	30.0	1	08/06/24 13:11	08/06/24 13:57	67-64-1	
Benzene	**1.1J**	ug/kg	4.5	0.78	1	08/06/24 13:11	08/06/24 13:57	71-43-2	
Bromochloromethane	ND	ug/kg	4.5	0.97	1	08/06/24 13:11	08/06/24 13:57	74-97-5	
Bromodichloromethane	ND	ug/kg	4.5	0.97	1	08/06/24 13:11	08/06/24 13:57	75-27-4	
Bromoform	ND	ug/kg	4.5	1.8	1	08/06/24 13:11	08/06/24 13:57	75-25-2	
Bromomethane	ND	ug/kg	4.5	1.7	1	08/06/24 13:11	08/06/24 13:57	74-83-9	2c
TOTAL BTEX	ND	ug/kg	26.8	5.5	1	08/06/24 13:11	08/06/24 13:57		
2-Butanone (MEK)	ND	ug/kg	8.9	2.3	1	08/06/24 13:11	08/06/24 13:57	78-93-3	
Carbon disulfide	**2.9J**	ug/kg	4.5	1.3	1	08/06/24 13:11	08/06/24 13:57	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.5	1.5	1	08/06/24 13:11	08/06/24 13:57	56-23-5	
Chlorobenzene	ND	ug/kg	4.5	0.70	1	08/06/24 13:11	08/06/24 13:57	108-90-7	
Chloroethane	ND	ug/kg	4.5	1.9	1	08/06/24 13:11	08/06/24 13:57	75-00-3	
Chloroform	ND	ug/kg	4.5	1.3	1	08/06/24 13:11	08/06/24 13:57	67-66-3	
Chloromethane	ND	ug/kg	4.5	1.5	1	08/06/24 13:11	08/06/24 13:57	74-87-3	
Dibromochloromethane	ND	ug/kg	4.5	0.71	1	08/06/24 13:11	08/06/24 13:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.5	0.53	1	08/06/24 13:11	08/06/24 13:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.5	0.58	1	08/06/24 13:11	08/06/24 13:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.5	0.63	1	08/06/24 13:11	08/06/24 13:57	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-2(1-2)-01-1017 **Lab ID: 30705771001** Collected: 07/31/24 13:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.5	1.1	1	08/06/24 13:11	08/06/24 13:57	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.5	1.2	1	08/06/24 13:11	08/06/24 13:57	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	8.9	2.2	1	08/06/24 13:11	08/06/24 13:57	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.5	1.7	1	08/06/24 13:11	08/06/24 13:57	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.5	1.0	1	08/06/24 13:11	08/06/24 13:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.5	1.1	1	08/06/24 13:11	08/06/24 13:57	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.5	0.64	1	08/06/24 13:11	08/06/24 13:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.5	0.45	1	08/06/24 13:11	08/06/24 13:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.5	0.93	1	08/06/24 13:11	08/06/24 13:57	10061-02-6	
Ethylbenzene	ND	ug/kg	4.5	0.96	1	08/06/24 13:11	08/06/24 13:57	100-41-4	
2-Hexanone	ND	ug/kg	8.9	2.1	1	08/06/24 13:11	08/06/24 13:57	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.5	1.0	1	08/06/24 13:11	08/06/24 13:57	98-82-8	
Methylene Chloride	ND	ug/kg	4.5	3.7	1	08/06/24 13:11	08/06/24 13:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.9	1.0	1	08/06/24 13:11	08/06/24 13:57	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.5	0.60	1	08/06/24 13:11	08/06/24 13:57	1634-04-4	
Naphthalene	ND	ug/kg	4.5	3.5	1	08/06/24 13:11	08/06/24 13:57	91-20-3	
Styrene	ND	ug/kg	4.5	1.3	1	08/06/24 13:11	08/06/24 13:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.5	0.53	1	08/06/24 13:11	08/06/24 13:57	79-34-5	
Tetrachloroethene	ND	ug/kg	4.5	1.5	1	08/06/24 13:11	08/06/24 13:57	127-18-4	
Toluene	**1.1J**	ug/kg	4.5	0.88	1	08/06/24 13:11	08/06/24 13:57	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.5	1.8	1	08/06/24 13:11	08/06/24 13:57	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.5	1.3	1	08/06/24 13:11	08/06/24 13:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.5	0.88	1	08/06/24 13:11	08/06/24 13:57	79-00-5	
Trichloroethene	ND	ug/kg	4.5	1.3	1	08/06/24 13:11	08/06/24 13:57	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.5	2.2	1	08/06/24 13:11	08/06/24 13:57	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.5	1.8	1	08/06/24 13:11	08/06/24 13:57	108-67-8	
Vinyl chloride	ND	ug/kg	4.5	1.9	1	08/06/24 13:11	08/06/24 13:57	75-01-4	
Xylene (Total)	ND	ug/kg	13.4	6.1	1	08/06/24 13:11	08/06/24 13:57	1330-20-7	
m&p-Xylene	ND	ug/kg	8.9	5.1	1	08/06/24 13:11	08/06/24 13:57	179601-23-1	
o-Xylene	ND	ug/kg	4.5	0.96	1	08/06/24 13:11	08/06/24 13:57	95-47-6	
Surrogates									
Toluene-d8 (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 13:57	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	70-130		1	08/06/24 13:11	08/06/24 13:57	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1	08/06/24 13:11	08/06/24 13:57	17060-07-0	
Dibromofluoromethane (S)	94	%.	70-130		1	08/06/24 13:11	08/06/24 13:57	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**17.9**	%	0.10	0.10	1		08/06/24 11:56		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-2(7-8)-01-1018 **Lab ID: 30705771002** Collected: 07/31/24 13:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**9.3**	mg/kg	6.8	0.47	1	08/05/24 08:49	08/06/24 16:39	7440-38-2	
Barium	**218**	mg/kg	6.8	0.49	1	08/05/24 08:49	08/06/24 16:39	7440-39-3	
Cadmium	ND	mg/kg	1.4	0.19	1	08/05/24 08:49	08/06/24 16:39	7440-43-9	
Chromium	**34.9**	mg/kg	6.8	0.85	1	08/05/24 08:49	08/06/24 16:39	7440-47-3	
Lead	**31.2**	mg/kg	6.8	0.70	1	08/05/24 08:49	08/06/24 16:39	7439-92-1	
Selenium	**1.6J**	mg/kg	6.8	1.4	1	08/05/24 08:49	08/06/24 16:39	7782-49-2	
Silver	ND	mg/kg	3.4	0.48	1	08/05/24 08:49	08/06/24 16:39	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.11**	mg/kg	0.028	0.026	1	08/06/24 12:11	08/08/24 10:11	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	9.1	2.4	1	08/12/24 10:36	08/13/24 15:50	83-32-9	
Acenaphthylene	ND	ug/kg	9.1	1.9	1	08/12/24 10:36	08/13/24 15:50	208-96-8	
Anthracene	ND	ug/kg	9.1	1.8	1	08/12/24 10:36	08/13/24 15:50	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9.1	2.4	1	08/12/24 10:36	08/13/24 15:50	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.1	4.0	1	08/12/24 10:36	08/13/24 15:50	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	9.1	2.6	1	08/12/24 10:36	08/13/24 15:50	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9.1	1.4	1	08/12/24 10:36	08/13/24 15:50	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9.1	1.5	1	08/12/24 10:36	08/13/24 15:50	207-08-9	
Chrysene	ND	ug/kg	9.1	1.4	1	08/12/24 10:36	08/13/24 15:50	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.1	1.8	1	08/12/24 10:36	08/13/24 15:50	53-70-3	
Fluoranthene	ND	ug/kg	9.1	6.1	1	08/12/24 10:36	08/13/24 15:50	206-44-0	
Fluorene	ND	ug/kg	18.2	9.4	1	08/12/24 10:36	08/13/24 15:50	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.1	3.5	1	08/12/24 10:36	08/13/24 15:50	193-39-5	
Naphthalene	ND	ug/kg	9.1	3.9	1	08/12/24 10:36	08/13/24 15:50	91-20-3	
Phenanthrene	ND	ug/kg	18.2	5.5	1	08/12/24 10:36	08/13/24 15:50	85-01-8	
Pyrene	ND	ug/kg	9.1	8.0	1	08/12/24 10:36	08/13/24 15:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%.	46-99		1	08/12/24 10:36	08/13/24 15:50	321-60-8	
Terphenyl-d14 (S)	86	%.	48-118		1	08/12/24 10:36	08/13/24 15:50	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	452	67.1	1	08/09/24 10:01	08/13/24 17:59	83-32-9	
Acenaphthylene	ND	ug/kg	452	136	1	08/09/24 10:01	08/13/24 17:59	208-96-8	
Anthracene	ND	ug/kg	452	104	1	08/09/24 10:01	08/13/24 17:59	120-12-7	
Azobenzene	ND	ug/kg	452	159	1	08/09/24 10:01	08/13/24 17:59	103-33-3	
Benzo(a)anthracene	ND	ug/kg	452	78.3	1	08/09/24 10:01	08/13/24 17:59	56-55-3	
Benzo(a)pyrene	ND	ug/kg	452	140	1	08/09/24 10:01	08/13/24 17:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	452	137	1	08/09/24 10:01	08/13/24 17:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	452	157	1	08/09/24 10:01	08/13/24 17:59	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-2(7-8)-01-1018 **Lab ID: 30705771002** Collected: 07/31/24 13:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	452	200	1	08/09/24 10:01	08/13/24 17:59	207-08-9	
Benzoic acid	ND	ug/kg	6780	2290	1	08/09/24 10:01	08/13/24 17:59	65-85-0	
Benzyl alcohol	ND	ug/kg	452	399	1	08/09/24 10:01	08/13/24 17:59	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	452	166	1	08/09/24 10:01	08/13/24 17:59	101-55-3	
Butylbenzylphthalate	ND	ug/kg	452	127	1	08/09/24 10:01	08/13/24 17:59	85-68-7	
Carbazole	ND	ug/kg	452	177	1	08/09/24 10:01	08/13/24 17:59	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	452	72.7	1	08/09/24 10:01	08/13/24 17:59	59-50-7	
4-Chloroaniline	ND	ug/kg	452	79.5	1	08/09/24 10:01	08/13/24 17:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	452	78.5	1	08/09/24 10:01	08/13/24 17:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	452	82.5	1	08/09/24 10:01	08/13/24 17:59	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	452	128	1	08/09/24 10:01	08/13/24 17:59	108-60-1	
2-Chloronaphthalene	ND	ug/kg	452	129	1	08/09/24 10:01	08/13/24 17:59	91-58-7	
2-Chlorophenol	ND	ug/kg	452	64.4	1	08/09/24 10:01	08/13/24 17:59	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	452	131	1	08/09/24 10:01	08/13/24 17:59	7005-72-3	
Chrysene	ND	ug/kg	452	67.0	1	08/09/24 10:01	08/13/24 17:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	452	172	1	08/09/24 10:01	08/13/24 17:59	53-70-3	
Dibenzofuran	ND	ug/kg	452	145	1	08/09/24 10:01	08/13/24 17:59	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	452	59.4	1	08/09/24 10:01	08/13/24 17:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	452	56.2	1	08/09/24 10:01	08/13/24 17:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	452	62.4	1	08/09/24 10:01	08/13/24 17:59	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	452	133	1	08/09/24 10:01	08/13/24 17:59	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	452	76.7	1	08/09/24 10:01	08/13/24 17:59	120-83-2	
Diethylphthalate	ND	ug/kg	452	159	1	08/09/24 10:01	08/13/24 17:59	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	452	137	1	08/09/24 10:01	08/13/24 17:59	105-67-9	
Dimethylphthalate	ND	ug/kg	452	139	1	08/09/24 10:01	08/13/24 17:59	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3610	3310	1	08/09/24 10:01	08/13/24 17:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1130	337	1	08/09/24 10:01	08/13/24 17:59	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1130	1020	1	08/09/24 10:01	08/13/24 17:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	452	137	1	08/09/24 10:01	08/13/24 17:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	452	137	1	08/09/24 10:01	08/13/24 17:59	606-20-2	
Di-n-octylphthalate	ND	ug/kg	452	297	1	08/09/24 10:01	08/13/24 17:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	452	144	1	08/09/24 10:01	08/13/24 17:59	117-81-7	
Fluoranthene	ND	ug/kg	452	145	1	08/09/24 10:01	08/13/24 17:59	206-44-0	
Fluorene	ND	ug/kg	452	138	1	08/09/24 10:01	08/13/24 17:59	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	452	70.8	1	08/09/24 10:01	08/13/24 17:59	87-68-3	
Hexachlorobenzene	ND	ug/kg	452	130	1	08/09/24 10:01	08/13/24 17:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	452	218	1	08/09/24 10:01	08/13/24 17:59	77-47-4	
Hexachloroethane	ND	ug/kg	452	122	1	08/09/24 10:01	08/13/24 17:59	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	452	170	1	08/09/24 10:01	08/13/24 17:59	193-39-5	
Isophorone	ND	ug/kg	452	65.2	1	08/09/24 10:01	08/13/24 17:59	78-59-1	
1-Methylnaphthalene	ND	ug/kg	452	114	1	08/09/24 10:01	08/13/24 17:59	90-12-0	
2-Methylnaphthalene	ND	ug/kg	452	66.1	1	08/09/24 10:01	08/13/24 17:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	452	163	1	08/09/24 10:01	08/13/24 17:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	904	277	1	08/09/24 10:01	08/13/24 17:59		

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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-2(7-8)-01-1018 **Lab ID: 30705771002** Collected: 07/31/24 13:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1130	157	1	08/09/24 10:01	08/13/24 17:59	88-74-4	
3-Nitroaniline	ND	ug/kg	1130	295	1	08/09/24 10:01	08/13/24 17:59	99-09-2	
4-Nitroaniline	ND	ug/kg	1130	634	1	08/09/24 10:01	08/13/24 17:59	100-01-6	
Nitrobenzene	ND	ug/kg	452	64.9	1	08/09/24 10:01	08/13/24 17:59	98-95-3	
2-Nitrophenol	ND	ug/kg	452	84.6	1	08/09/24 10:01	08/13/24 17:59	88-75-5	
4-Nitrophenol	ND	ug/kg	452	152	1	08/09/24 10:01	08/13/24 17:59	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	452	77.5	1	08/09/24 10:01	08/13/24 17:59	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	452	79.5	1	08/09/24 10:01	08/13/24 17:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	452	102	1	08/09/24 10:01	08/13/24 17:59	86-30-6	
Pentachlorophenol	ND	ug/kg	1130	595	1	08/09/24 10:01	08/13/24 17:59	87-86-5	
Phenanthrene	ND	ug/kg	452	82.0	1	08/09/24 10:01	08/13/24 17:59	85-01-8	
Phenol	ND	ug/kg	452	134	1	08/09/24 10:01	08/13/24 17:59	108-95-2	
Pyrene	ND	ug/kg	452	165	1	08/09/24 10:01	08/13/24 17:59	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	452	122	1	08/09/24 10:01	08/13/24 17:59	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1130	134	1	08/09/24 10:01	08/13/24 17:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	452	118	1	08/09/24 10:01	08/13/24 17:59	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	32-154		1	08/09/24 10:01	08/13/24 17:59	4165-60-0	
2-Fluorobiphenyl (S)	80	%.	50-144		1	08/09/24 10:01	08/13/24 17:59	321-60-8	
Terphenyl-d14 (S)	94	%.	57-146		1	08/09/24 10:01	08/13/24 17:59	1718-51-0	
Phenol-d6 (S)	85	%.	54-121		1	08/09/24 10:01	08/13/24 17:59	13127-88-3	
2-Fluorophenol (S)	83	%.	57-124		1	08/09/24 10:01	08/13/24 17:59	367-12-4	
2,4,6-Tribromophenol (S)	87	%.	44-127		1	08/09/24 10:01	08/13/24 17:59	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**113**	ug/kg	58.7	39.4	1	08/06/24 13:11	08/06/24 14:24	67-64-1	
Benzene	ND	ug/kg	5.9	1.0	1	08/06/24 13:11	08/06/24 14:24	71-43-2	
Bromochloromethane	ND	ug/kg	5.9	1.3	1	08/06/24 13:11	08/06/24 14:24	74-97-5	
Bromodichloromethane	ND	ug/kg	5.9	1.3	1	08/06/24 13:11	08/06/24 14:24	75-27-4	
Bromoform	ND	ug/kg	5.9	2.4	1	08/06/24 13:11	08/06/24 14:24	75-25-2	
Bromomethane	ND	ug/kg	5.9	2.2	1	08/06/24 13:11	08/06/24 14:24	74-83-9	2c
TOTAL BTEX	ND	ug/kg	35.2	7.2	1	08/06/24 13:11	08/06/24 14:24		
2-Butanone (MEK)	**7.3J**	ug/kg	11.7	3.1	1	08/06/24 13:11	08/06/24 14:24	78-93-3	
Carbon disulfide	ND	ug/kg	5.9	1.7	1	08/06/24 13:11	08/06/24 14:24	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.9	2.0	1	08/06/24 13:11	08/06/24 14:24	56-23-5	
Chlorobenzene	ND	ug/kg	5.9	0.92	1	08/06/24 13:11	08/06/24 14:24	108-90-7	
Chloroethane	ND	ug/kg	5.9	2.5	1	08/06/24 13:11	08/06/24 14:24	75-00-3	
Chloroform	ND	ug/kg	5.9	1.8	1	08/06/24 13:11	08/06/24 14:24	67-66-3	
Chloromethane	ND	ug/kg	5.9	2.0	1	08/06/24 13:11	08/06/24 14:24	74-87-3	
Dibromochloromethane	ND	ug/kg	5.9	0.93	1	08/06/24 13:11	08/06/24 14:24	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.9	0.69	1	08/06/24 13:11	08/06/24 14:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.9	0.76	1	08/06/24 13:11	08/06/24 14:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.9	0.83	1	08/06/24 13:11	08/06/24 14:24	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-2(7-8)-01-1018 **Lab ID: 30705771002** Collected: 07/31/24 13:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.9	1.5	1	08/06/24 13:11	08/06/24 14:24	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.9	1.5	1	08/06/24 13:11	08/06/24 14:24	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.7	2.9	1	08/06/24 13:11	08/06/24 14:24	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.9	2.2	1	08/06/24 13:11	08/06/24 14:24	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.9	1.4	1	08/06/24 13:11	08/06/24 14:24	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.9	1.5	1	08/06/24 13:11	08/06/24 14:24	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.9	0.84	1	08/06/24 13:11	08/06/24 14:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.9	0.59	1	08/06/24 13:11	08/06/24 14:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.9	1.2	1	08/06/24 13:11	08/06/24 14:24	10061-02-6	
Ethylbenzene	ND	ug/kg	5.9	1.3	1	08/06/24 13:11	08/06/24 14:24	100-41-4	
2-Hexanone	ND	ug/kg	11.7	2.7	1	08/06/24 13:11	08/06/24 14:24	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.9	1.4	1	08/06/24 13:11	08/06/24 14:24	98-82-8	
Methylene Chloride	ND	ug/kg	5.9	4.9	1	08/06/24 13:11	08/06/24 14:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.7	1.3	1	08/06/24 13:11	08/06/24 14:24	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.9	0.79	1	08/06/24 13:11	08/06/24 14:24	1634-04-4	
Naphthalene	ND	ug/kg	5.9	4.7	1	08/06/24 13:11	08/06/24 14:24	91-20-3	
Styrene	ND	ug/kg	5.9	1.7	1	08/06/24 13:11	08/06/24 14:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.9	0.69	1	08/06/24 13:11	08/06/24 14:24	79-34-5	
Tetrachloroethene	ND	ug/kg	5.9	2.0	1	08/06/24 13:11	08/06/24 14:24	127-18-4	
Toluene	ND	ug/kg	5.9	1.2	1	08/06/24 13:11	08/06/24 14:24	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.9	2.3	1	08/06/24 13:11	08/06/24 14:24	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.9	1.8	1	08/06/24 13:11	08/06/24 14:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.9	1.2	1	08/06/24 13:11	08/06/24 14:24	79-00-5	
Trichloroethene	ND	ug/kg	5.9	1.7	1	08/06/24 13:11	08/06/24 14:24	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.9	2.9	1	08/06/24 13:11	08/06/24 14:24	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.9	2.4	1	08/06/24 13:11	08/06/24 14:24	108-67-8	
Vinyl chloride	ND	ug/kg	5.9	2.5	1	08/06/24 13:11	08/06/24 14:24	75-01-4	
Xylene (Total)	ND	ug/kg	17.6	8.0	1	08/06/24 13:11	08/06/24 14:24	1330-20-7	
m&p-Xylene	ND	ug/kg	11.7	6.8	1	08/06/24 13:11	08/06/24 14:24	179601-23-1	
o-Xylene	ND	ug/kg	5.9	1.3	1	08/06/24 13:11	08/06/24 14:24	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	08/06/24 13:11	08/06/24 14:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/06/24 13:11	08/06/24 14:24	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130		1	08/06/24 13:11	08/06/24 14:24	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130		1	08/06/24 13:11	08/06/24 14:24	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**28.3**	%	0.10	0.10	1		08/06/24 11:56		

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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-9(1-2)-01-1019 **Lab ID: 30705771003** Collected: 07/31/24 16:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**5.4J**	mg/kg	5.7	0.40	1	08/05/24 08:49	08/06/24 16:41	7440-38-2	
Barium	**26.0**	mg/kg	5.7	0.42	1	08/05/24 08:49	08/06/24 16:41	7440-39-3	
Cadmium	ND	mg/kg	1.1	0.16	1	08/05/24 08:49	08/06/24 16:41	7440-43-9	
Chromium	**23.9**	mg/kg	5.7	0.72	1	08/05/24 08:49	08/06/24 16:41	7440-47-3	
Lead	**10.6**	mg/kg	5.7	0.59	1	08/05/24 08:49	08/06/24 16:41	7439-92-1	
Selenium	ND	mg/kg	5.7	1.1	1	08/05/24 08:49	08/06/24 16:41	7782-49-2	
Silver	ND	mg/kg	2.9	0.41	1	08/05/24 08:49	08/06/24 16:41	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.11**	mg/kg	0.024	0.023	1	08/06/24 12:11	08/08/24 10:13	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.6	2.0	1	08/12/24 10:36	08/13/24 16:08	83-32-9	
Acenaphthylene	ND	ug/kg	7.6	1.6	1	08/12/24 10:36	08/13/24 16:08	208-96-8	
Anthracene	ND	ug/kg	7.6	1.5	1	08/12/24 10:36	08/13/24 16:08	120-12-7	
Benzo(a)anthracene	**3.1J**	ug/kg	7.6	2.0	1	08/12/24 10:36	08/13/24 16:08	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.6	3.3	1	08/12/24 10:36	08/13/24 16:08	50-32-8	
Benzo(b)fluoranthene	**5.9J**	ug/kg	7.6	2.2	1	08/12/24 10:36	08/13/24 16:08	205-99-2	
Benzo(g,h,i)perylene	**3.9J**	ug/kg	7.6	1.1	1	08/12/24 10:36	08/13/24 16:08	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.6	1.3	1	08/12/24 10:36	08/13/24 16:08	207-08-9	
Chrysene	**3.0J**	ug/kg	7.6	1.2	1	08/12/24 10:36	08/13/24 16:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.6	1.5	1	08/12/24 10:36	08/13/24 16:08	53-70-3	
Fluoranthene	ND	ug/kg	7.6	5.1	1	08/12/24 10:36	08/13/24 16:08	206-44-0	
Fluorene	ND	ug/kg	15.1	7.8	1	08/12/24 10:36	08/13/24 16:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.6	2.9	1	08/12/24 10:36	08/13/24 16:08	193-39-5	
Naphthalene	ND	ug/kg	7.6	3.2	1	08/12/24 10:36	08/13/24 16:08	91-20-3	
Phenanthrene	ND	ug/kg	15.1	4.6	1	08/12/24 10:36	08/13/24 16:08	85-01-8	
Pyrene	ND	ug/kg	7.6	6.7	1	08/12/24 10:36	08/13/24 16:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%.	46-99		1	08/12/24 10:36	08/13/24 16:08	321-60-8	
Terphenyl-d14 (S)	90	%.	48-118		1	08/12/24 10:36	08/13/24 16:08	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	379	56.2	1	08/09/24 10:01	08/13/24 18:21	83-32-9	
Acenaphthylene	ND	ug/kg	379	114	1	08/09/24 10:01	08/13/24 18:21	208-96-8	
Anthracene	ND	ug/kg	379	87.0	1	08/09/24 10:01	08/13/24 18:21	120-12-7	
Azobenzene	ND	ug/kg	379	134	1	08/09/24 10:01	08/13/24 18:21	103-33-3	
Benzo(a)anthracene	ND	ug/kg	379	65.6	1	08/09/24 10:01	08/13/24 18:21	56-55-3	
Benzo(a)pyrene	ND	ug/kg	379	118	1	08/09/24 10:01	08/13/24 18:21	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	379	115	1	08/09/24 10:01	08/13/24 18:21	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	379	131	1	08/09/24 10:01	08/13/24 18:21	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-9(1-2)-01-1019 **Lab ID: 30705771003** Collected: 07/31/24 16:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	379	167	1	08/09/24 10:01	08/13/24 18:21	207-08-9	Ip
Benzoic acid	ND	ug/kg	5680	1920	1	08/09/24 10:01	08/13/24 18:21	65-85-0	
Benzyl alcohol	ND	ug/kg	379	335	1	08/09/24 10:01	08/13/24 18:21	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	379	139	1	08/09/24 10:01	08/13/24 18:21	101-55-3	
Butylbenzylphthalate	ND	ug/kg	379	106	1	08/09/24 10:01	08/13/24 18:21	85-68-7	
Carbazole	ND	ug/kg	379	149	1	08/09/24 10:01	08/13/24 18:21	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	379	61.0	1	08/09/24 10:01	08/13/24 18:21	59-50-7	
4-Chloroaniline	ND	ug/kg	379	66.7	1	08/09/24 10:01	08/13/24 18:21	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	379	65.8	1	08/09/24 10:01	08/13/24 18:21	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	379	69.2	1	08/09/24 10:01	08/13/24 18:21	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	379	108	1	08/09/24 10:01	08/13/24 18:21	108-60-1	
2-Chloronaphthalene	ND	ug/kg	379	108	1	08/09/24 10:01	08/13/24 18:21	91-58-7	
2-Chlorophenol	ND	ug/kg	379	54.0	1	08/09/24 10:01	08/13/24 18:21	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	379	110	1	08/09/24 10:01	08/13/24 18:21	7005-72-3	
Chrysene	ND	ug/kg	379	56.2	1	08/09/24 10:01	08/13/24 18:21	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	379	144	1	08/09/24 10:01	08/13/24 18:21	53-70-3	
Dibenzofuran	ND	ug/kg	379	121	1	08/09/24 10:01	08/13/24 18:21	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	379	49.8	1	08/09/24 10:01	08/13/24 18:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	379	47.1	1	08/09/24 10:01	08/13/24 18:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	379	52.3	1	08/09/24 10:01	08/13/24 18:21	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	379	111	1	08/09/24 10:01	08/13/24 18:21	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	379	64.3	1	08/09/24 10:01	08/13/24 18:21	120-83-2	
Diethylphthalate	ND	ug/kg	379	133	1	08/09/24 10:01	08/13/24 18:21	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	379	115	1	08/09/24 10:01	08/13/24 18:21	105-67-9	
Dimethylphthalate	ND	ug/kg	379	117	1	08/09/24 10:01	08/13/24 18:21	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3030	2770	1	08/09/24 10:01	08/13/24 18:21	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	947	282	1	08/09/24 10:01	08/13/24 18:21	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	947	852	1	08/09/24 10:01	08/13/24 18:21	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	379	115	1	08/09/24 10:01	08/13/24 18:21	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	379	115	1	08/09/24 10:01	08/13/24 18:21	606-20-2	
Di-n-octylphthalate	ND	ug/kg	379	249	1	08/09/24 10:01	08/13/24 18:21	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	379	121	1	08/09/24 10:01	08/13/24 18:21	117-81-7	
Fluoranthene	ND	ug/kg	379	122	1	08/09/24 10:01	08/13/24 18:21	206-44-0	
Fluorene	ND	ug/kg	379	116	1	08/09/24 10:01	08/13/24 18:21	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	379	59.4	1	08/09/24 10:01	08/13/24 18:21	87-68-3	
Hexachlorobenzene	ND	ug/kg	379	109	1	08/09/24 10:01	08/13/24 18:21	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	379	183	1	08/09/24 10:01	08/13/24 18:21	77-47-4	
Hexachloroethane	ND	ug/kg	379	102	1	08/09/24 10:01	08/13/24 18:21	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	379	143	1	08/09/24 10:01	08/13/24 18:21	193-39-5	
Isophorone	ND	ug/kg	379	54.7	1	08/09/24 10:01	08/13/24 18:21	78-59-1	
1-Methylnaphthalene	ND	ug/kg	379	95.2	1	08/09/24 10:01	08/13/24 18:21	90-12-0	
2-Methylnaphthalene	ND	ug/kg	379	55.4	1	08/09/24 10:01	08/13/24 18:21	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	379	136	1	08/09/24 10:01	08/13/24 18:21	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	758	233	1	08/09/24 10:01	08/13/24 18:21		

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-9(1-2)-01-1019 **Lab ID: 30705771003** Collected: 07/31/24 16:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	947	132	1	08/09/24 10:01	08/13/24 18:21	88-74-4	
3-Nitroaniline	ND	ug/kg	947	247	1	08/09/24 10:01	08/13/24 18:21	99-09-2	
4-Nitroaniline	ND	ug/kg	947	532	1	08/09/24 10:01	08/13/24 18:21	100-01-6	
Nitrobenzene	ND	ug/kg	379	54.4	1	08/09/24 10:01	08/13/24 18:21	98-95-3	
2-Nitrophenol	ND	ug/kg	379	71.0	1	08/09/24 10:01	08/13/24 18:21	88-75-5	
4-Nitrophenol	ND	ug/kg	379	127	1	08/09/24 10:01	08/13/24 18:21	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	379	64.9	1	08/09/24 10:01	08/13/24 18:21	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	379	66.7	1	08/09/24 10:01	08/13/24 18:21	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	379	85.4	1	08/09/24 10:01	08/13/24 18:21	86-30-6	
Pentachlorophenol	ND	ug/kg	947	499	1	08/09/24 10:01	08/13/24 18:21	87-86-5	
Phenanthrene	ND	ug/kg	379	68.7	1	08/09/24 10:01	08/13/24 18:21	85-01-8	
Phenol	ND	ug/kg	379	112	1	08/09/24 10:01	08/13/24 18:21	108-95-2	
Pyrene	ND	ug/kg	379	138	1	08/09/24 10:01	08/13/24 18:21	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	379	102	1	08/09/24 10:01	08/13/24 18:21	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	947	112	1	08/09/24 10:01	08/13/24 18:21	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	379	99.0	1	08/09/24 10:01	08/13/24 18:21	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	80	%.	32-154		1	08/09/24 10:01	08/13/24 18:21	4165-60-0	
2-Fluorobiphenyl (S)	82	%.	50-144		1	08/09/24 10:01	08/13/24 18:21	321-60-8	
Terphenyl-d14 (S)	94	%.	57-146		1	08/09/24 10:01	08/13/24 18:21	1718-51-0	
Phenol-d6 (S)	88	%.	54-121		1	08/09/24 10:01	08/13/24 18:21	13127-88-3	
2-Fluorophenol (S)	87	%.	57-124		1	08/09/24 10:01	08/13/24 18:21	367-12-4	
2,4,6-Tribromophenol (S)	87	%.	44-127		1	08/09/24 10:01	08/13/24 18:21	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	63.3	42.5	1	08/06/24 13:11	08/06/24 14:52	67-64-1	
Benzene	ND	ug/kg	6.3	1.1	1	08/06/24 13:11	08/06/24 14:52	71-43-2	
Bromochloromethane	ND	ug/kg	6.3	1.4	1	08/06/24 13:11	08/06/24 14:52	74-97-5	
Bromodichloromethane	ND	ug/kg	6.3	1.4	1	08/06/24 13:11	08/06/24 14:52	75-27-4	
Bromoform	ND	ug/kg	6.3	2.6	1	08/06/24 13:11	08/06/24 14:52	75-25-2	
Bromomethane	ND	ug/kg	6.3	2.4	1	08/06/24 13:11	08/06/24 14:52	74-83-9	2c
TOTAL BTEX	ND	ug/kg	38.0	7.7	1	08/06/24 13:11	08/06/24 14:52		
2-Butanone (MEK)	ND	ug/kg	12.7	3.3	1	08/06/24 13:11	08/06/24 14:52	78-93-3	
Carbon disulfide	ND	ug/kg	6.3	1.8	1	08/06/24 13:11	08/06/24 14:52	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.3	2.2	1	08/06/24 13:11	08/06/24 14:52	56-23-5	
Chlorobenzene	ND	ug/kg	6.3	0.99	1	08/06/24 13:11	08/06/24 14:52	108-90-7	
Chloroethane	ND	ug/kg	6.3	2.6	1	08/06/24 13:11	08/06/24 14:52	75-00-3	
Chloroform	ND	ug/kg	6.3	1.9	1	08/06/24 13:11	08/06/24 14:52	67-66-3	
Chloromethane	ND	ug/kg	6.3	2.1	1	08/06/24 13:11	08/06/24 14:52	74-87-3	
Dibromochloromethane	ND	ug/kg	6.3	1.0	1	08/06/24 13:11	08/06/24 14:52	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	6.3	0.75	1	08/06/24 13:11	08/06/24 14:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.3	0.82	1	08/06/24 13:11	08/06/24 14:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.3	0.90	1	08/06/24 13:11	08/06/24 14:52	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-9(1-2)-01-1019 **Lab ID: 30705771003** Collected: 07/31/24 16:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	6.3	1.6	1	08/06/24 13:11	08/06/24 14:52	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.3	1.6	1	08/06/24 13:11	08/06/24 14:52	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	12.7	3.1	1	08/06/24 13:11	08/06/24 14:52	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.3	2.4	1	08/06/24 13:11	08/06/24 14:52	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.3	1.5	1	08/06/24 13:11	08/06/24 14:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.3	1.6	1	08/06/24 13:11	08/06/24 14:52	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.3	0.91	1	08/06/24 13:11	08/06/24 14:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.3	0.63	1	08/06/24 13:11	08/06/24 14:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.3	1.3	1	08/06/24 13:11	08/06/24 14:52	10061-02-6	
Ethylbenzene	ND	ug/kg	6.3	1.4	1	08/06/24 13:11	08/06/24 14:52	100-41-4	
2-Hexanone	ND	ug/kg	12.7	2.9	1	08/06/24 13:11	08/06/24 14:52	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.3	1.5	1	08/06/24 13:11	08/06/24 14:52	98-82-8	
Methylene Chloride	ND	ug/kg	6.3	5.3	1	08/06/24 13:11	08/06/24 14:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.7	1.4	1	08/06/24 13:11	08/06/24 14:52	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.3	0.85	1	08/06/24 13:11	08/06/24 14:52	1634-04-4	
Naphthalene	ND	ug/kg	6.3	5.0	1	08/06/24 13:11	08/06/24 14:52	91-20-3	
Styrene	ND	ug/kg	6.3	1.8	1	08/06/24 13:11	08/06/24 14:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.3	0.75	1	08/06/24 13:11	08/06/24 14:52	79-34-5	
Tetrachloroethene	ND	ug/kg	6.3	2.2	1	08/06/24 13:11	08/06/24 14:52	127-18-4	
Toluene	ND	ug/kg	6.3	1.3	1	08/06/24 13:11	08/06/24 14:52	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	6.3	2.5	1	08/06/24 13:11	08/06/24 14:52	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.3	1.9	1	08/06/24 13:11	08/06/24 14:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.3	1.3	1	08/06/24 13:11	08/06/24 14:52	79-00-5	
Trichloroethene	ND	ug/kg	6.3	1.9	1	08/06/24 13:11	08/06/24 14:52	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	6.3	3.1	1	08/06/24 13:11	08/06/24 14:52	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.3	2.6	1	08/06/24 13:11	08/06/24 14:52	108-67-8	
Vinyl chloride	ND	ug/kg	6.3	2.7	1	08/06/24 13:11	08/06/24 14:52	75-01-4	
Xylene (Total)	ND	ug/kg	19.0	8.6	1	08/06/24 13:11	08/06/24 14:52	1330-20-7	
m&p-Xylene	ND	ug/kg	12.7	7.3	1	08/06/24 13:11	08/06/24 14:52	179601-23-1	
o-Xylene	ND	ug/kg	6.3	1.4	1	08/06/24 13:11	08/06/24 14:52	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/06/24 13:11	08/06/24 14:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130		1	08/06/24 13:11	08/06/24 14:52	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1	08/06/24 13:11	08/06/24 14:52	17060-07-0	
Dibromofluoromethane (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 14:52	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**13.0**	%	0.10	0.10	1		08/06/24 11:56		

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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-9(7-8)-01-1020 **Lab ID: 30705771004** Collected: 07/31/24 16:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	ND	mg/kg	6.1	0.42	1	08/05/24 08:49	08/06/24 16:44	7440-38-2	
Barium	**22.0**	mg/kg	6.1	0.45	1	08/05/24 08:49	08/06/24 16:44	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/05/24 08:49	08/06/24 16:44	7440-43-9	
Chromium	**20.5**	mg/kg	6.1	0.77	1	08/05/24 08:49	08/06/24 16:44	7440-47-3	
Lead	**10.9**	mg/kg	6.1	0.63	1	08/05/24 08:49	08/06/24 16:44	7439-92-1	
Selenium	ND	mg/kg	6.1	1.2	1	08/05/24 08:49	08/06/24 16:44	7782-49-2	
Silver	ND	mg/kg	3.1	0.44	1	08/05/24 08:49	08/06/24 16:44	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.050**	mg/kg	0.025	0.024	1	08/06/24 12:11	08/08/24 10:16	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.0	2.1	1	08/12/24 10:36	08/13/24 16:25	83-32-9	
Acenaphthylene	ND	ug/kg	8.0	1.7	1	08/12/24 10:36	08/13/24 16:25	208-96-8	
Anthracene	ND	ug/kg	8.0	1.6	1	08/12/24 10:36	08/13/24 16:25	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.0	2.1	1	08/12/24 10:36	08/13/24 16:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.0	3.5	1	08/12/24 10:36	08/13/24 16:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.0	2.3	1	08/12/24 10:36	08/13/24 16:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.0	1.2	1	08/12/24 10:36	08/13/24 16:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.0	1.3	1	08/12/24 10:36	08/13/24 16:25	207-08-9	
Chrysene	ND	ug/kg	8.0	1.3	1	08/12/24 10:36	08/13/24 16:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.0	1.6	1	08/12/24 10:36	08/13/24 16:25	53-70-3	
Fluoranthene	ND	ug/kg	8.0	5.4	1	08/12/24 10:36	08/13/24 16:25	206-44-0	
Fluorene	ND	ug/kg	16.0	8.3	1	08/12/24 10:36	08/13/24 16:25	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.0	3.1	1	08/12/24 10:36	08/13/24 16:25	193-39-5	
Naphthalene	ND	ug/kg	8.0	3.4	1	08/12/24 10:36	08/13/24 16:25	91-20-3	
Phenanthrene	ND	ug/kg	16.0	4.8	1	08/12/24 10:36	08/13/24 16:25	85-01-8	
Pyrene	ND	ug/kg	8.0	7.1	1	08/12/24 10:36	08/13/24 16:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%.	46-99		1	08/12/24 10:36	08/13/24 16:25	321-60-8	
Terphenyl-d14 (S)	82	%.	48-118		1	08/12/24 10:36	08/13/24 16:25	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	406	60.3	1	08/09/24 10:01	08/13/24 18:43	83-32-9	
Acenaphthylene	ND	ug/kg	406	122	1	08/09/24 10:01	08/13/24 18:43	208-96-8	
Anthracene	ND	ug/kg	406	93.3	1	08/09/24 10:01	08/13/24 18:43	120-12-7	
Azobenzene	ND	ug/kg	406	143	1	08/09/24 10:01	08/13/24 18:43	103-33-3	
Benzo(a)anthracene	ND	ug/kg	406	70.4	1	08/09/24 10:01	08/13/24 18:43	56-55-3	
Benzo(a)pyrene	ND	ug/kg	406	126	1	08/09/24 10:01	08/13/24 18:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	406	123	1	08/09/24 10:01	08/13/24 18:43	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	406	141	1	08/09/24 10:01	08/13/24 18:43	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-9(7-8)-01-1020 **Lab ID: 30705771004** Collected: 07/31/24 16:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	406	179	1	08/09/24 10:01	08/13/24 18:43	207-08-9	
Benzoic acid	ND	ug/kg	6090	2060	1	08/09/24 10:01	08/13/24 18:43	65-85-0	
Benzyl alcohol	ND	ug/kg	406	359	1	08/09/24 10:01	08/13/24 18:43	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	406	149	1	08/09/24 10:01	08/13/24 18:43	101-55-3	
Butylbenzylphthalate	ND	ug/kg	406	114	1	08/09/24 10:01	08/13/24 18:43	85-68-7	
Carbazole	ND	ug/kg	406	160	1	08/09/24 10:01	08/13/24 18:43	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	406	65.4	1	08/09/24 10:01	08/13/24 18:43	59-50-7	
4-Chloroaniline	ND	ug/kg	406	71.5	1	08/09/24 10:01	08/13/24 18:43	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	406	70.6	1	08/09/24 10:01	08/13/24 18:43	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	406	74.2	1	08/09/24 10:01	08/13/24 18:43	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	406	115	1	08/09/24 10:01	08/13/24 18:43	108-60-1	
2-Chloronaphthalene	ND	ug/kg	406	116	1	08/09/24 10:01	08/13/24 18:43	91-58-7	
2-Chlorophenol	ND	ug/kg	406	57.9	1	08/09/24 10:01	08/13/24 18:43	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	406	117	1	08/09/24 10:01	08/13/24 18:43	7005-72-3	
Chrysene	ND	ug/kg	406	60.2	1	08/09/24 10:01	08/13/24 18:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	406	154	1	08/09/24 10:01	08/13/24 18:43	53-70-3	
Dibenzofuran	ND	ug/kg	406	130	1	08/09/24 10:01	08/13/24 18:43	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	406	53.4	1	08/09/24 10:01	08/13/24 18:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	406	50.5	1	08/09/24 10:01	08/13/24 18:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	406	56.1	1	08/09/24 10:01	08/13/24 18:43	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	406	119	1	08/09/24 10:01	08/13/24 18:43	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	406	69.0	1	08/09/24 10:01	08/13/24 18:43	120-83-2	
Diethylphthalate	ND	ug/kg	406	143	1	08/09/24 10:01	08/13/24 18:43	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	406	123	1	08/09/24 10:01	08/13/24 18:43	105-67-9	
Dimethylphthalate	ND	ug/kg	406	125	1	08/09/24 10:01	08/13/24 18:43	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3250	2970	1	08/09/24 10:01	08/13/24 18:43	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1020	303	1	08/09/24 10:01	08/13/24 18:43	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1020	913	1	08/09/24 10:01	08/13/24 18:43	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	406	123	1	08/09/24 10:01	08/13/24 18:43	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	406	124	1	08/09/24 10:01	08/13/24 18:43	606-20-2	
Di-n-octylphthalate	ND	ug/kg	406	267	1	08/09/24 10:01	08/13/24 18:43	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	406	130	1	08/09/24 10:01	08/13/24 18:43	117-81-7	
Fluoranthene	ND	ug/kg	406	131	1	08/09/24 10:01	08/13/24 18:43	206-44-0	
Fluorene	ND	ug/kg	406	124	1	08/09/24 10:01	08/13/24 18:43	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	406	63.7	1	08/09/24 10:01	08/13/24 18:43	87-68-3	
Hexachlorobenzene	ND	ug/kg	406	117	1	08/09/24 10:01	08/13/24 18:43	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	406	196	1	08/09/24 10:01	08/13/24 18:43	77-47-4	
Hexachloroethane	ND	ug/kg	406	110	1	08/09/24 10:01	08/13/24 18:43	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	406	153	1	08/09/24 10:01	08/13/24 18:43	193-39-5	
Isophorone	ND	ug/kg	406	58.6	1	08/09/24 10:01	08/13/24 18:43	78-59-1	
1-Methylnaphthalene	ND	ug/kg	406	102	1	08/09/24 10:01	08/13/24 18:43	90-12-0	
2-Methylnaphthalene	ND	ug/kg	406	59.4	1	08/09/24 10:01	08/13/24 18:43	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	406	146	1	08/09/24 10:01	08/13/24 18:43	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	812	249	1	08/09/24 10:01	08/13/24 18:43		

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-9(7-8)-01-1020 **Lab ID: 30705771004** Collected: 07/31/24 16:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1020	141	1	08/09/24 10:01	08/13/24 18:43	88-74-4	
3-Nitroaniline	ND	ug/kg	1020	265	1	08/09/24 10:01	08/13/24 18:43	99-09-2	
4-Nitroaniline	ND	ug/kg	1020	570	1	08/09/24 10:01	08/13/24 18:43	100-01-6	
Nitrobenzene	ND	ug/kg	406	58.3	1	08/09/24 10:01	08/13/24 18:43	98-95-3	
2-Nitrophenol	ND	ug/kg	406	76.1	1	08/09/24 10:01	08/13/24 18:43	88-75-5	
4-Nitrophenol	ND	ug/kg	406	137	1	08/09/24 10:01	08/13/24 18:43	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	406	69.6	1	08/09/24 10:01	08/13/24 18:43	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	406	71.5	1	08/09/24 10:01	08/13/24 18:43	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	406	91.6	1	08/09/24 10:01	08/13/24 18:43	86-30-6	
Pentachlorophenol	ND	ug/kg	1020	535	1	08/09/24 10:01	08/13/24 18:43	87-86-5	
Phenanthrene	ND	ug/kg	406	73.7	1	08/09/24 10:01	08/13/24 18:43	85-01-8	
Phenol	ND	ug/kg	406	120	1	08/09/24 10:01	08/13/24 18:43	108-95-2	
Pyrene	ND	ug/kg	406	148	1	08/09/24 10:01	08/13/24 18:43	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	406	110	1	08/09/24 10:01	08/13/24 18:43	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1020	120	1	08/09/24 10:01	08/13/24 18:43	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	406	106	1	08/09/24 10:01	08/13/24 18:43	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78	%.	32-154		1	08/09/24 10:01	08/13/24 18:43	4165-60-0	
2-Fluorobiphenyl (S)	79	%.	50-144		1	08/09/24 10:01	08/13/24 18:43	321-60-8	
Terphenyl-d14 (S)	93	%.	57-146		1	08/09/24 10:01	08/13/24 18:43	1718-51-0	
Phenol-d6 (S)	84	%.	54-121		1	08/09/24 10:01	08/13/24 18:43	13127-88-3	
2-Fluorophenol (S)	83	%.	57-124		1	08/09/24 10:01	08/13/24 18:43	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	44-127		1	08/09/24 10:01	08/13/24 18:43	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	48.5	32.6	1	08/06/24 13:11	08/06/24 15:20	67-64-1	
Benzene	ND	ug/kg	4.8	0.84	1	08/06/24 13:11	08/06/24 15:20	71-43-2	
Bromochloromethane	ND	ug/kg	4.8	1.1	1	08/06/24 13:11	08/06/24 15:20	74-97-5	
Bromodichloromethane	ND	ug/kg	4.8	1.1	1	08/06/24 13:11	08/06/24 15:20	75-27-4	
Bromoform	ND	ug/kg	4.8	2.0	1	08/06/24 13:11	08/06/24 15:20	75-25-2	
Bromomethane	ND	ug/kg	4.8	1.8	1	08/06/24 13:11	08/06/24 15:20	74-83-9	2c
TOTAL BTEX	ND	ug/kg	29.1	5.9	1	08/06/24 13:11	08/06/24 15:20		
2-Butanone (MEK)	ND	ug/kg	9.7	2.5	1	08/06/24 13:11	08/06/24 15:20	78-93-3	
Carbon disulfide	ND	ug/kg	4.8	1.4	1	08/06/24 13:11	08/06/24 15:20	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.8	1.7	1	08/06/24 13:11	08/06/24 15:20	56-23-5	
Chlorobenzene	ND	ug/kg	4.8	0.76	1	08/06/24 13:11	08/06/24 15:20	108-90-7	
Chloroethane	ND	ug/kg	4.8	2.0	1	08/06/24 13:11	08/06/24 15:20	75-00-3	
Chloroform	ND	ug/kg	4.8	1.5	1	08/06/24 13:11	08/06/24 15:20	67-66-3	
Chloromethane	ND	ug/kg	4.8	1.6	1	08/06/24 13:11	08/06/24 15:20	74-87-3	
Dibromochloromethane	ND	ug/kg	4.8	0.77	1	08/06/24 13:11	08/06/24 15:20	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.8	0.57	1	08/06/24 13:11	08/06/24 15:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.8	0.63	1	08/06/24 13:11	08/06/24 15:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.8	0.69	1	08/06/24 13:11	08/06/24 15:20	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-9(7-8)-01-1020 **Lab ID: 30705771004** Collected: 07/31/24 16:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.8	1.2	1	08/06/24 13:11	08/06/24 15:20	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.8	1.3	1	08/06/24 13:11	08/06/24 15:20	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	9.7	2.4	1	08/06/24 13:11	08/06/24 15:20	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.8	1.8	1	08/06/24 13:11	08/06/24 15:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1.1	1	08/06/24 13:11	08/06/24 15:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1.2	1	08/06/24 13:11	08/06/24 15:20	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.8	0.70	1	08/06/24 13:11	08/06/24 15:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.8	0.48	1	08/06/24 13:11	08/06/24 15:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1.0	1	08/06/24 13:11	08/06/24 15:20	10061-02-6	
Ethylbenzene	ND	ug/kg	4.8	1.0	1	08/06/24 13:11	08/06/24 15:20	100-41-4	
2-Hexanone	ND	ug/kg	9.7	2.2	1	08/06/24 13:11	08/06/24 15:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1.1	1	08/06/24 13:11	08/06/24 15:20	98-82-8	
Methylene Chloride	ND	ug/kg	4.8	4.1	1	08/06/24 13:11	08/06/24 15:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	1.1	1	08/06/24 13:11	08/06/24 15:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.8	0.65	1	08/06/24 13:11	08/06/24 15:20	1634-04-4	
Naphthalene	ND	ug/kg	4.8	3.9	1	08/06/24 13:11	08/06/24 15:20	91-20-3	
Styrene	ND	ug/kg	4.8	1.4	1	08/06/24 13:11	08/06/24 15:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	0.57	1	08/06/24 13:11	08/06/24 15:20	79-34-5	
Tetrachloroethene	ND	ug/kg	4.8	1.7	1	08/06/24 13:11	08/06/24 15:20	127-18-4	
Toluene	ND	ug/kg	4.8	0.96	1	08/06/24 13:11	08/06/24 15:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1.9	1	08/06/24 13:11	08/06/24 15:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.8	1.5	1	08/06/24 13:11	08/06/24 15:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.8	0.96	1	08/06/24 13:11	08/06/24 15:20	79-00-5	
Trichloroethene	ND	ug/kg	4.8	1.4	1	08/06/24 13:11	08/06/24 15:20	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	2.4	1	08/06/24 13:11	08/06/24 15:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	2.0	1	08/06/24 13:11	08/06/24 15:20	108-67-8	
Vinyl chloride	ND	ug/kg	4.8	2.0	1	08/06/24 13:11	08/06/24 15:20	75-01-4	
Xylene (Total)	ND	ug/kg	14.5	6.6	1	08/06/24 13:11	08/06/24 15:20	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	5.6	1	08/06/24 13:11	08/06/24 15:20	179601-23-1	
o-Xylene	ND	ug/kg	4.8	1.0	1	08/06/24 13:11	08/06/24 15:20	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/06/24 13:11	08/06/24 15:20	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	70-130		1	08/06/24 13:11	08/06/24 15:20	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1	08/06/24 13:11	08/06/24 15:20	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	08/06/24 13:11	08/06/24 15:20	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**19.2**	%	0.10	0.10	1		08/06/24 11:56		

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-10(1-2)-01-1021 **Lab ID: 30705771005** Collected: 08/01/24 09:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**8.8**	mg/kg	6.4	0.44	1	08/05/24 08:49	08/06/24 16:46	7440-38-2	
Barium	**81.0**	mg/kg	6.4	0.46	1	08/05/24 08:49	08/06/24 16:46	7440-39-3	
Cadmium	ND	mg/kg	1.3	0.18	1	08/05/24 08:49	08/06/24 16:46	7440-43-9	
Chromium	**17.5**	mg/kg	6.4	0.80	1	08/05/24 08:49	08/06/24 16:46	7440-47-3	
Lead	**13.1**	mg/kg	6.4	0.65	1	08/05/24 08:49	08/06/24 16:46	7439-92-1	
Selenium	ND	mg/kg	6.4	1.3	1	08/05/24 08:49	08/06/24 16:46	7782-49-2	
Silver	ND	mg/kg	3.2	0.45	1	08/05/24 08:49	08/06/24 16:46	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.082**	mg/kg	0.026	0.025	1	08/06/24 12:11	08/08/24 10:18	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	84.4	22.2	10	08/12/24 10:36	08/13/24 16:43	83-32-9	ED
Acenaphthylene	ND	ug/kg	84.4	17.3	10	08/12/24 10:36	08/13/24 16:43	208-96-8	ED
Anthracene	**35.7J**	ug/kg	84.4	16.8	10	08/12/24 10:36	08/13/24 16:43	120-12-7	ED
Benzo(a)anthracene	**468**	ug/kg	84.4	22.2	10	08/12/24 10:36	08/13/24 16:43	56-55-3	ED
Benzo(a)pyrene	**607**	ug/kg	84.4	36.8	10	08/12/24 10:36	08/13/24 16:43	50-32-8	ED
Benzo(b)fluoranthene	**1230**	ug/kg	84.4	24.1	10	08/12/24 10:36	08/13/24 16:43	205-99-2	ED,Ip
Benzo(g,h,i)perylene	**455**	ug/kg	84.4	12.7	10	08/12/24 10:36	08/13/24 16:43	191-24-2	ED
Benzo(k)fluoranthene	**1150**	ug/kg	84.4	14.1	10	08/12/24 10:36	08/13/24 16:43	207-08-9	ED,Ip
Chrysene	**672**	ug/kg	84.4	13.3	10	08/12/24 10:36	08/13/24 16:43	218-01-9	ED
Dibenz(a,h)anthracene	**108**	ug/kg	84.4	16.4	10	08/12/24 10:36	08/13/24 16:43	53-70-3	ED
Fluoranthene	**1220**	ug/kg	84.4	56.5	10	08/12/24 10:36	08/13/24 16:43	206-44-0	ED
Fluorene	ND	ug/kg	168	86.8	10	08/12/24 10:36	08/13/24 16:43	86-73-7	ED
Indeno(1,2,3-cd)pyrene	**363**	ug/kg	84.4	32.6	10	08/12/24 10:36	08/13/24 16:43	193-39-5	ED
Naphthalene	ND	ug/kg	84.4	36.0	10	08/12/24 10:36	08/13/24 16:43	91-20-3	ED
Phenanthrene	**283**	ug/kg	168	50.7	10	08/12/24 10:36	08/13/24 16:43	85-01-8	ED
Pyrene	**888**	ug/kg	84.4	74.1	10	08/12/24 10:36	08/13/24 16:43	129-00-0	ED
Surrogates									
2-Fluorobiphenyl (S)	56	%.	46-99		10	08/12/24 10:36	08/13/24 16:43	321-60-8	
Terphenyl-d14 (S)	74	%.	48-118		10	08/12/24 10:36	08/13/24 16:43	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	4180	621	10	08/09/24 10:01	08/13/24 19:05	83-32-9	ED
Acenaphthylene	ND	ug/kg	4180	1250	10	08/09/24 10:01	08/13/24 19:05	208-96-8	ED
Anthracene	ND	ug/kg	4180	960	10	08/09/24 10:01	08/13/24 19:05	120-12-7	ED
Azobenzene	ND	ug/kg	4180	1470	10	08/09/24 10:01	08/13/24 19:05	103-33-3	ED
Benzo(a)anthracene	ND	ug/kg	4180	724	10	08/09/24 10:01	08/13/24 19:05	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	4180	1300	10	08/09/24 10:01	08/13/24 19:05	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	4180	1270	10	08/09/24 10:01	08/13/24 19:05	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	4180	1450	10	08/09/24 10:01	08/13/24 19:05	191-24-2	ED

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-10(1-2)-01-1021 **Lab ID: 30705771005** Collected: 08/01/24 09:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	4180	1850	10	08/09/24 10:01	08/13/24 19:05	207-08-9	ED
Benzoic acid	ND	ug/kg	62700	21200	10	08/09/24 10:01	08/13/24 19:05	65-85-0	ED
Benzyl alcohol	ND	ug/kg	4180	3690	10	08/09/24 10:01	08/13/24 19:05	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	4180	1540	10	08/09/24 10:01	08/13/24 19:05	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	4180	1170	10	08/09/24 10:01	08/13/24 19:05	85-68-7	ED
Carbazole	ND	ug/kg	4180	1640	10	08/09/24 10:01	08/13/24 19:05	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	4180	673	10	08/09/24 10:01	08/13/24 19:05	59-50-7	ED
4-Chloroaniline	ND	ug/kg	4180	735	10	08/09/24 10:01	08/13/24 19:05	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	4180	726	10	08/09/24 10:01	08/13/24 19:05	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	4180	763	10	08/09/24 10:01	08/13/24 19:05	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	4180	1190	10	08/09/24 10:01	08/13/24 19:05	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	4180	1190	10	08/09/24 10:01	08/13/24 19:05	91-58-7	ED
2-Chlorophenol	ND	ug/kg	4180	596	10	08/09/24 10:01	08/13/24 19:05	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	4180	1210	10	08/09/24 10:01	08/13/24 19:05	7005-72-3	ED
Chrysene	**858J**	ug/kg	4180	620	10	08/09/24 10:01	08/13/24 19:05	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	4180	1590	10	08/09/24 10:01	08/13/24 19:05	53-70-3	ED
Dibenzofuran	ND	ug/kg	4180	1340	10	08/09/24 10:01	08/13/24 19:05	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	4180	549	10	08/09/24 10:01	08/13/24 19:05	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	4180	520	10	08/09/24 10:01	08/13/24 19:05	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	4180	577	10	08/09/24 10:01	08/13/24 19:05	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	4180	1230	10	08/09/24 10:01	08/13/24 19:05	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	4180	710	10	08/09/24 10:01	08/13/24 19:05	120-83-2	ED
Diethylphthalate	ND	ug/kg	4180	1470	10	08/09/24 10:01	08/13/24 19:05	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	4180	1270	10	08/09/24 10:01	08/13/24 19:05	105-67-9	ED
Dimethylphthalate	ND	ug/kg	4180	1290	10	08/09/24 10:01	08/13/24 19:05	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	33400	30600	10	08/09/24 10:01	08/13/24 19:05	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	10500	3110	10	08/09/24 10:01	08/13/24 19:05	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	10500	9400	10	08/09/24 10:01	08/13/24 19:05	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	4180	1270	10	08/09/24 10:01	08/13/24 19:05	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	4180	1270	10	08/09/24 10:01	08/13/24 19:05	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	4180	2750	10	08/09/24 10:01	08/13/24 19:05	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	4180	1330	10	08/09/24 10:01	08/13/24 19:05	117-81-7	ED
Fluoranthene	ND	ug/kg	4180	1350	10	08/09/24 10:01	08/13/24 19:05	206-44-0	ED
Fluorene	ND	ug/kg	4180	1280	10	08/09/24 10:01	08/13/24 19:05	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	4180	655	10	08/09/24 10:01	08/13/24 19:05	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	4180	1200	10	08/09/24 10:01	08/13/24 19:05	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	4180	2010	10	08/09/24 10:01	08/13/24 19:05	77-47-4	ED
Hexachloroethane	ND	ug/kg	4180	1130	10	08/09/24 10:01	08/13/24 19:05	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	4180	1570	10	08/09/24 10:01	08/13/24 19:05	193-39-5	ED
Isophorone	ND	ug/kg	4180	603	10	08/09/24 10:01	08/13/24 19:05	78-59-1	ED
1-Methylnaphthalene	ND	ug/kg	4180	1050	10	08/09/24 10:01	08/13/24 19:05	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	4180	611	10	08/09/24 10:01	08/13/24 19:05	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	4180	1500	10	08/09/24 10:01	08/13/24 19:05	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	8360	2570	10	08/09/24 10:01	08/13/24 19:05		ED

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-10(1-2)-01-1021 **Lab ID: 30705771005** Collected: 08/01/24 09:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	10500	1450	10	08/09/24 10:01	08/13/24 19:05	88-74-4	ED
3-Nitroaniline	ND	ug/kg	10500	2730	10	08/09/24 10:01	08/13/24 19:05	99-09-2	ED
4-Nitroaniline	ND	ug/kg	10500	5870	10	08/09/24 10:01	08/13/24 19:05	100-01-6	ED
Nitrobenzene	ND	ug/kg	4180	600	10	08/09/24 10:01	08/13/24 19:05	98-95-3	ED
2-Nitrophenol	ND	ug/kg	4180	783	10	08/09/24 10:01	08/13/24 19:05	88-75-5	ED
4-Nitrophenol	ND	ug/kg	4180	1410	10	08/09/24 10:01	08/13/24 19:05	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	4180	716	10	08/09/24 10:01	08/13/24 19:05	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	4180	735	10	08/09/24 10:01	08/13/24 19:05	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	4180	942	10	08/09/24 10:01	08/13/24 19:05	86-30-6	ED
Pentachlorophenol	ND	ug/kg	10500	5500	10	08/09/24 10:01	08/13/24 19:05	87-86-5	ED
Phenanthrene	ND	ug/kg	4180	758	10	08/09/24 10:01	08/13/24 19:05	85-01-8	ED
Phenol	ND	ug/kg	4180	1240	10	08/09/24 10:01	08/13/24 19:05	108-95-2	ED
Pyrene	ND	ug/kg	4180	1530	10	08/09/24 10:01	08/13/24 19:05	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	4180	1130	10	08/09/24 10:01	08/13/24 19:05	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	10500	1240	10	08/09/24 10:01	08/13/24 19:05	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	4180	1090	10	08/09/24 10:01	08/13/24 19:05	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	92	%.	32-154		10	08/09/24 10:01	08/13/24 19:05	4165-60-0	
2-Fluorobiphenyl (S)	99	%.	50-144		10	08/09/24 10:01	08/13/24 19:05	321-60-8	
Terphenyl-d14 (S)	107	%.	57-146		10	08/09/24 10:01	08/13/24 19:05	1718-51-0	
Phenol-d6 (S)	103	%.	54-121		10	08/09/24 10:01	08/13/24 19:05	13127-88-3	
2-Fluorophenol (S)	95	%.	57-124		10	08/09/24 10:01	08/13/24 19:05	367-12-4	
2,4,6-Tribromophenol (S)	89	%.	44-127		10	08/09/24 10:01	08/13/24 19:05	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**48.2J**	ug/kg	67.5	45.4	1	08/06/24 13:11	08/06/24 15:47	67-64-1	
Benzene	**2.1J**	ug/kg	6.7	1.2	1	08/06/24 13:11	08/06/24 15:47	71-43-2	
Bromochloromethane	ND	ug/kg	6.7	1.5	1	08/06/24 13:11	08/06/24 15:47	74-97-5	
Bromodichloromethane	ND	ug/kg	6.7	1.5	1	08/06/24 13:11	08/06/24 15:47	75-27-4	
Bromoform	ND	ug/kg	6.7	2.8	1	08/06/24 13:11	08/06/24 15:47	75-25-2	
Bromomethane	ND	ug/kg	6.7	2.5	1	08/06/24 13:11	08/06/24 15:47	74-83-9	2c
TOTAL BTEX	ND	ug/kg	40.5	8.3	1	08/06/24 13:11	08/06/24 15:47		
2-Butanone (MEK)	ND	ug/kg	13.5	3.5	1	08/06/24 13:11	08/06/24 15:47	78-93-3	
Carbon disulfide	**3.7J**	ug/kg	6.7	1.9	1	08/06/24 13:11	08/06/24 15:47	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.7	2.3	1	08/06/24 13:11	08/06/24 15:47	56-23-5	
Chlorobenzene	ND	ug/kg	6.7	1.1	1	08/06/24 13:11	08/06/24 15:47	108-90-7	
Chloroethane	ND	ug/kg	6.7	2.8	1	08/06/24 13:11	08/06/24 15:47	75-00-3	
Chloroform	ND	ug/kg	6.7	2.0	1	08/06/24 13:11	08/06/24 15:47	67-66-3	
Chloromethane	ND	ug/kg	6.7	2.3	1	08/06/24 13:11	08/06/24 15:47	74-87-3	
Dibromochloromethane	ND	ug/kg	6.7	1.1	1	08/06/24 13:11	08/06/24 15:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	6.7	0.80	1	08/06/24 13:11	08/06/24 15:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.7	0.88	1	08/06/24 13:11	08/06/24 15:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.7	0.96	1	08/06/24 13:11	08/06/24 15:47	106-46-7	

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-10(1-2)-01-1021 **Lab ID: 30705771005** Collected: 08/01/24 09:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	6.7	1.7	1	08/06/24 13:11	08/06/24 15:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.7	1.7	1	08/06/24 13:11	08/06/24 15:47	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	13.5	3.3	1	08/06/24 13:11	08/06/24 15:47	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.7	2.5	1	08/06/24 13:11	08/06/24 15:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.7	1.6	1	08/06/24 13:11	08/06/24 15:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.7	1.7	1	08/06/24 13:11	08/06/24 15:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.7	0.97	1	08/06/24 13:11	08/06/24 15:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.7	0.67	1	08/06/24 13:11	08/06/24 15:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.7	1.4	1	08/06/24 13:11	08/06/24 15:47	10061-02-6	
Ethylbenzene	ND	ug/kg	6.7	1.5	1	08/06/24 13:11	08/06/24 15:47	100-41-4	
2-Hexanone	ND	ug/kg	13.5	3.1	1	08/06/24 13:11	08/06/24 15:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.7	1.6	1	08/06/24 13:11	08/06/24 15:47	98-82-8	
Methylene Chloride	ND	ug/kg	6.7	5.7	1	08/06/24 13:11	08/06/24 15:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	13.5	1.5	1	08/06/24 13:11	08/06/24 15:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.7	0.90	1	08/06/24 13:11	08/06/24 15:47	1634-04-4	
Naphthalene	ND	ug/kg	6.7	5.4	1	08/06/24 13:11	08/06/24 15:47	91-20-3	
Styrene	ND	ug/kg	6.7	1.9	1	08/06/24 13:11	08/06/24 15:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.7	0.80	1	08/06/24 13:11	08/06/24 15:47	79-34-5	
Tetrachloroethene	ND	ug/kg	6.7	2.3	1	08/06/24 13:11	08/06/24 15:47	127-18-4	
Toluene	**1.8J**	ug/kg	6.7	1.3	1	08/06/24 13:11	08/06/24 15:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	6.7	2.7	1	08/06/24 13:11	08/06/24 15:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.7	2.0	1	08/06/24 13:11	08/06/24 15:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.7	1.3	1	08/06/24 13:11	08/06/24 15:47	79-00-5	
Trichloroethene	ND	ug/kg	6.7	2.0	1	08/06/24 13:11	08/06/24 15:47	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	6.7	3.3	1	08/06/24 13:11	08/06/24 15:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.7	2.7	1	08/06/24 13:11	08/06/24 15:47	108-67-8	
Vinyl chloride	ND	ug/kg	6.7	2.8	1	08/06/24 13:11	08/06/24 15:47	75-01-4	
Xylene (Total)	ND	ug/kg	20.2	9.2	1	08/06/24 13:11	08/06/24 15:47	1330-20-7	
m&p-Xylene	ND	ug/kg	13.5	7.8	1	08/06/24 13:11	08/06/24 15:47	179601-23-1	
o-Xylene	ND	ug/kg	6.7	1.4	1	08/06/24 13:11	08/06/24 15:47	95-47-6	
Surrogates									
Toluene-d8 (S)	100	%.	70-130		1	08/06/24 13:11	08/06/24 15:47	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130		1	08/06/24 13:11	08/06/24 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1	08/06/24 13:11	08/06/24 15:47	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 15:47	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**21.4**	%	0.10	0.10	1		08/06/24 11:56		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-10(7-8)-01-1022 **Lab ID: 30705771006** Collected: 08/01/24 11:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**13.2**	mg/kg	6.2	0.43	1	08/05/24 11:01	08/06/24 14:21	7440-38-2	
Barium	**61.8**	mg/kg	6.2	0.45	1	08/05/24 11:01	08/06/24 14:21	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/05/24 11:01	08/06/24 14:21	7440-43-9	
Chromium	**50.2**	mg/kg	6.2	0.78	1	08/05/24 11:01	08/06/24 14:21	7440-47-3	
Lead	**37.5**	mg/kg	6.2	0.63	1	08/05/24 11:01	08/06/24 14:21	7439-92-1	
Selenium	**3.3J**	mg/kg	6.2	1.2	1	08/05/24 11:01	08/06/24 14:21	7782-49-2	
Silver	ND	mg/kg	3.1	0.44	1	08/05/24 11:01	08/06/24 14:21	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.032**	mg/kg	0.026	0.024	1	08/06/24 12:11	08/08/24 10:20	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.2	2.2	1	08/12/24 10:36	08/14/24 10:08	83-32-9	
Acenaphthylene	ND	ug/kg	8.2	1.7	1	08/12/24 10:36	08/14/24 10:08	208-96-8	
Anthracene	ND	ug/kg	8.2	1.6	1	08/12/24 10:36	08/14/24 10:08	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.2	2.2	1	08/12/24 10:36	08/14/24 10:08	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.2	3.6	1	08/12/24 10:36	08/14/24 10:08	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.2	2.3	1	08/12/24 10:36	08/14/24 10:08	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	8.2	1.2	1	08/12/24 10:36	08/14/24 10:08	191-24-2	
Benzo(k)fluoranthene	**2.1J**	ug/kg	8.2	1.4	1	08/12/24 10:36	08/14/24 10:08	207-08-9	Ip
Chrysene	ND	ug/kg	8.2	1.3	1	08/12/24 10:36	08/14/24 10:08	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.2	1.6	1	08/12/24 10:36	08/14/24 10:08	53-70-3	
Fluoranthene	ND	ug/kg	8.2	5.5	1	08/12/24 10:36	08/14/24 10:08	206-44-0	
Fluorene	ND	ug/kg	16.3	8.4	1	08/12/24 10:36	08/14/24 10:08	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.2	3.2	1	08/12/24 10:36	08/14/24 10:08	193-39-5	
Naphthalene	ND	ug/kg	8.2	3.5	1	08/12/24 10:36	08/14/24 10:08	91-20-3	
Phenanthrene	ND	ug/kg	16.3	4.9	1	08/12/24 10:36	08/14/24 10:08	85-01-8	
Pyrene	ND	ug/kg	8.2	7.2	1	08/12/24 10:36	08/14/24 10:08	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	57	%.	46-99		1	08/12/24 10:36	08/14/24 10:08	321-60-8	
Terphenyl-d14 (S)	70	%.	48-118		1	08/12/24 10:36	08/14/24 10:08	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	403	59.9	1	08/09/24 10:01	08/13/24 19:27	83-32-9	
Acenaphthylene	ND	ug/kg	403	121	1	08/09/24 10:01	08/13/24 19:27	208-96-8	
Anthracene	ND	ug/kg	403	92.7	1	08/09/24 10:01	08/13/24 19:27	120-12-7	
Azobenzene	ND	ug/kg	403	142	1	08/09/24 10:01	08/13/24 19:27	103-33-3	
Benzo(a)anthracene	ND	ug/kg	403	69.9	1	08/09/24 10:01	08/13/24 19:27	56-55-3	
Benzo(a)pyrene	ND	ug/kg	403	125	1	08/09/24 10:01	08/13/24 19:27	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	403	123	1	08/09/24 10:01	08/13/24 19:27	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	403	140	1	08/09/24 10:01	08/13/24 19:27	191-24-2	

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-10(7-8)-01-1022 **Lab ID: 30705771006** Collected: 08/01/24 11:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	403	178	1	08/09/24 10:01	08/13/24 19:27	207-08-9	
Benzoic acid	ND	ug/kg	6050	2040	1	08/09/24 10:01	08/13/24 19:27	65-85-0	
Benzyl alcohol	ND	ug/kg	403	357	1	08/09/24 10:01	08/13/24 19:27	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	403	148	1	08/09/24 10:01	08/13/24 19:27	101-55-3	
Butylbenzylphthalate	ND	ug/kg	403	113	1	08/09/24 10:01	08/13/24 19:27	85-68-7	
Carbazole	ND	ug/kg	403	158	1	08/09/24 10:01	08/13/24 19:27	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	403	64.9	1	08/09/24 10:01	08/13/24 19:27	59-50-7	
4-Chloroaniline	ND	ug/kg	403	71.0	1	08/09/24 10:01	08/13/24 19:27	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	403	70.1	1	08/09/24 10:01	08/13/24 19:27	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	403	73.6	1	08/09/24 10:01	08/13/24 19:27	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	403	115	1	08/09/24 10:01	08/13/24 19:27	108-60-1	
2-Chloronaphthalene	ND	ug/kg	403	115	1	08/09/24 10:01	08/13/24 19:27	91-58-7	
2-Chlorophenol	ND	ug/kg	403	57.5	1	08/09/24 10:01	08/13/24 19:27	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	403	117	1	08/09/24 10:01	08/13/24 19:27	7005-72-3	
Chrysene	ND	ug/kg	403	59.8	1	08/09/24 10:01	08/13/24 19:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	403	153	1	08/09/24 10:01	08/13/24 19:27	53-70-3	
Dibenzofuran	ND	ug/kg	403	129	1	08/09/24 10:01	08/13/24 19:27	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	403	53.0	1	08/09/24 10:01	08/13/24 19:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	403	50.2	1	08/09/24 10:01	08/13/24 19:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	403	55.7	1	08/09/24 10:01	08/13/24 19:27	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	403	118	1	08/09/24 10:01	08/13/24 19:27	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	403	68.5	1	08/09/24 10:01	08/13/24 19:27	120-83-2	
Diethylphthalate	ND	ug/kg	403	142	1	08/09/24 10:01	08/13/24 19:27	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	403	123	1	08/09/24 10:01	08/13/24 19:27	105-67-9	
Dimethylphthalate	ND	ug/kg	403	124	1	08/09/24 10:01	08/13/24 19:27	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3230	2950	1	08/09/24 10:01	08/13/24 19:27	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1010	300	1	08/09/24 10:01	08/13/24 19:27	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1010	907	1	08/09/24 10:01	08/13/24 19:27	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	403	122	1	08/09/24 10:01	08/13/24 19:27	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	403	123	1	08/09/24 10:01	08/13/24 19:27	606-20-2	
Di-n-octylphthalate	ND	ug/kg	403	266	1	08/09/24 10:01	08/13/24 19:27	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	403	129	1	08/09/24 10:01	08/13/24 19:27	117-81-7	
Fluoranthene	ND	ug/kg	403	130	1	08/09/24 10:01	08/13/24 19:27	206-44-0	
Fluorene	ND	ug/kg	403	124	1	08/09/24 10:01	08/13/24 19:27	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	403	63.2	1	08/09/24 10:01	08/13/24 19:27	87-68-3	
Hexachlorobenzene	ND	ug/kg	403	116	1	08/09/24 10:01	08/13/24 19:27	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	403	194	1	08/09/24 10:01	08/13/24 19:27	77-47-4	
Hexachloroethane	ND	ug/kg	403	109	1	08/09/24 10:01	08/13/24 19:27	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	403	152	1	08/09/24 10:01	08/13/24 19:27	193-39-5	
Isophorone	ND	ug/kg	403	58.2	1	08/09/24 10:01	08/13/24 19:27	78-59-1	
1-Methylnaphthalene	ND	ug/kg	403	101	1	08/09/24 10:01	08/13/24 19:27	90-12-0	
2-Methylnaphthalene	ND	ug/kg	403	59.0	1	08/09/24 10:01	08/13/24 19:27	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	403	145	1	08/09/24 10:01	08/13/24 19:27	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	807	248	1	08/09/24 10:01	08/13/24 19:27		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-10(7-8)-01-1022 **Lab ID: 30705771006** Collected: 08/01/24 11:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1010	140	1	08/09/24 10:01	08/13/24 19:27	88-74-4	
3-Nitroaniline	ND	ug/kg	1010	263	1	08/09/24 10:01	08/13/24 19:27	99-09-2	
4-Nitroaniline	ND	ug/kg	1010	566	1	08/09/24 10:01	08/13/24 19:27	100-01-6	
Nitrobenzene	ND	ug/kg	403	57.9	1	08/09/24 10:01	08/13/24 19:27	98-95-3	
2-Nitrophenol	ND	ug/kg	403	75.5	1	08/09/24 10:01	08/13/24 19:27	88-75-5	
4-Nitrophenol	ND	ug/kg	403	136	1	08/09/24 10:01	08/13/24 19:27	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	403	69.2	1	08/09/24 10:01	08/13/24 19:27	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	403	71.0	1	08/09/24 10:01	08/13/24 19:27	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	403	91.0	1	08/09/24 10:01	08/13/24 19:27	86-30-6	
Pentachlorophenol	ND	ug/kg	1010	531	1	08/09/24 10:01	08/13/24 19:27	87-86-5	
Phenanthrene	ND	ug/kg	403	73.2	1	08/09/24 10:01	08/13/24 19:27	85-01-8	
Phenol	ND	ug/kg	403	120	1	08/09/24 10:01	08/13/24 19:27	108-95-2	
Pyrene	ND	ug/kg	403	147	1	08/09/24 10:01	08/13/24 19:27	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	403	109	1	08/09/24 10:01	08/13/24 19:27	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1010	119	1	08/09/24 10:01	08/13/24 19:27	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	403	105	1	08/09/24 10:01	08/13/24 19:27	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	87	%.	32-154		1	08/09/24 10:01	08/13/24 19:27	4165-60-0	
2-Fluorobiphenyl (S)	86	%.	50-144		1	08/09/24 10:01	08/13/24 19:27	321-60-8	
Terphenyl-d14 (S)	98	%.	57-146		1	08/09/24 10:01	08/13/24 19:27	1718-51-0	
Phenol-d6 (S)	92	%.	54-121		1	08/09/24 10:01	08/13/24 19:27	13127-88-3	
2-Fluorophenol (S)	91	%.	57-124		1	08/09/24 10:01	08/13/24 19:27	367-12-4	
2,4,6-Tribromophenol (S)	92	%.	44-127		1	08/09/24 10:01	08/13/24 19:27	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**73.7**	ug/kg	53.8	36.2	1	08/06/24 13:11	08/06/24 16:15	67-64-1	
Benzene	ND	ug/kg	5.4	0.94	1	08/06/24 13:11	08/06/24 16:15	71-43-2	
Bromochloromethane	ND	ug/kg	5.4	1.2	1	08/06/24 13:11	08/06/24 16:15	74-97-5	
Bromodichloromethane	ND	ug/kg	5.4	1.2	1	08/06/24 13:11	08/06/24 16:15	75-27-4	
Bromoform	ND	ug/kg	5.4	2.2	1	08/06/24 13:11	08/06/24 16:15	75-25-2	
Bromomethane	ND	ug/kg	5.4	2.0	1	08/06/24 13:11	08/06/24 16:15	74-83-9	2c
TOTAL BTEX	ND	ug/kg	32.3	6.6	1	08/06/24 13:11	08/06/24 16:15		
2-Butanone (MEK)	ND	ug/kg	10.8	2.8	1	08/06/24 13:11	08/06/24 16:15	78-93-3	
Carbon disulfide	ND	ug/kg	5.4	1.5	1	08/06/24 13:11	08/06/24 16:15	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.4	1.9	1	08/06/24 13:11	08/06/24 16:15	56-23-5	
Chlorobenzene	ND	ug/kg	5.4	0.84	1	08/06/24 13:11	08/06/24 16:15	108-90-7	
Chloroethane	ND	ug/kg	5.4	2.2	1	08/06/24 13:11	08/06/24 16:15	75-00-3	
Chloroform	ND	ug/kg	5.4	1.6	1	08/06/24 13:11	08/06/24 16:15	67-66-3	
Chloromethane	ND	ug/kg	5.4	1.8	1	08/06/24 13:11	08/06/24 16:15	74-87-3	
Dibromochloromethane	ND	ug/kg	5.4	0.85	1	08/06/24 13:11	08/06/24 16:15	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.4	0.64	1	08/06/24 13:11	08/06/24 16:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.4	0.70	1	08/06/24 13:11	08/06/24 16:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.4	0.76	1	08/06/24 13:11	08/06/24 16:15	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-10(7-8)-01-1022 **Lab ID: 30705771006** Collected: 08/01/24 11:25 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.4	1.4	1	08/06/24 13:11	08/06/24 16:15	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.4	1.4	1	08/06/24 13:11	08/06/24 16:15	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.8	2.6	1	08/06/24 13:11	08/06/24 16:15	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.4	2.0	1	08/06/24 13:11	08/06/24 16:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.4	1.2	1	08/06/24 13:11	08/06/24 16:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.4	1.4	1	08/06/24 13:11	08/06/24 16:15	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.4	0.77	1	08/06/24 13:11	08/06/24 16:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.4	0.54	1	08/06/24 13:11	08/06/24 16:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.4	1.1	1	08/06/24 13:11	08/06/24 16:15	10061-02-6	
Ethylbenzene	ND	ug/kg	5.4	1.2	1	08/06/24 13:11	08/06/24 16:15	100-41-4	
2-Hexanone	ND	ug/kg	10.8	2.5	1	08/06/24 13:11	08/06/24 16:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.4	1.2	1	08/06/24 13:11	08/06/24 16:15	98-82-8	
Methylene Chloride	ND	ug/kg	5.4	4.5	1	08/06/24 13:11	08/06/24 16:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.8	1.2	1	08/06/24 13:11	08/06/24 16:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.4	0.72	1	08/06/24 13:11	08/06/24 16:15	1634-04-4	
Naphthalene	ND	ug/kg	5.4	4.3	1	08/06/24 13:11	08/06/24 16:15	91-20-3	
Styrene	ND	ug/kg	5.4	1.5	1	08/06/24 13:11	08/06/24 16:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.4	0.64	1	08/06/24 13:11	08/06/24 16:15	79-34-5	
Tetrachloroethene	ND	ug/kg	5.4	1.9	1	08/06/24 13:11	08/06/24 16:15	127-18-4	
Toluene	ND	ug/kg	5.4	1.1	1	08/06/24 13:11	08/06/24 16:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.4	2.1	1	08/06/24 13:11	08/06/24 16:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.4	1.6	1	08/06/24 13:11	08/06/24 16:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.4	1.1	1	08/06/24 13:11	08/06/24 16:15	79-00-5	
Trichloroethene	ND	ug/kg	5.4	1.6	1	08/06/24 13:11	08/06/24 16:15	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.4	2.6	1	08/06/24 13:11	08/06/24 16:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.4	2.2	1	08/06/24 13:11	08/06/24 16:15	108-67-8	
Vinyl chloride	ND	ug/kg	5.4	2.3	1	08/06/24 13:11	08/06/24 16:15	75-01-4	
Xylene (Total)	ND	ug/kg	16.1	7.3	1	08/06/24 13:11	08/06/24 16:15	1330-20-7	
m&p-Xylene	ND	ug/kg	10.8	6.2	1	08/06/24 13:11	08/06/24 16:15	179601-23-1	
o-Xylene	ND	ug/kg	5.4	1.2	1	08/06/24 13:11	08/06/24 16:15	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 16:15	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	08/06/24 13:11	08/06/24 16:15	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1	08/06/24 13:11	08/06/24 16:15	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 16:15	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**19.6**	%	0.10	0.10	1		08/06/24 11:56		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-11(1-2)-01-1023 **Lab ID: 30705771007** Collected: 08/01/24 13:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**5.5J**	mg/kg	5.5	0.38	1	08/05/24 11:01	08/06/24 14:24	7440-38-2	
Barium	**74.0**	mg/kg	5.5	0.40	1	08/05/24 11:01	08/06/24 14:24	7440-39-3	
Cadmium	ND	mg/kg	1.1	0.15	1	08/05/24 11:01	08/06/24 14:24	7440-43-9	
Chromium	**31.7**	mg/kg	5.5	0.69	1	08/05/24 11:01	08/06/24 14:24	7440-47-3	
Lead	**14.3**	mg/kg	5.5	0.57	1	08/05/24 11:01	08/06/24 14:24	7439-92-1	
Selenium	**1.3J**	mg/kg	5.5	1.1	1	08/05/24 11:01	08/06/24 14:24	7782-49-2	
Silver	ND	mg/kg	2.8	0.39	1	08/05/24 11:01	08/06/24 14:24	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.037**	mg/kg	0.022	0.021	1	08/06/24 12:11	08/08/24 10:23	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	71.7	18.9	10	08/12/24 10:36	08/14/24 10:27	83-32-9	ED
Acenaphthylene	ND	ug/kg	71.7	14.7	10	08/12/24 10:36	08/14/24 10:27	208-96-8	ED
Anthracene	ND	ug/kg	71.7	14.2	10	08/12/24 10:36	08/14/24 10:27	120-12-7	ED
Benzo(a)anthracene	ND	ug/kg	71.7	18.9	10	08/12/24 10:36	08/14/24 10:27	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	71.7	31.3	10	08/12/24 10:36	08/14/24 10:27	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	71.7	20.4	10	08/12/24 10:36	08/14/24 10:27	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	71.7	10.8	10	08/12/24 10:36	08/14/24 10:27	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	71.7	12.0	10	08/12/24 10:36	08/14/24 10:27	207-08-9	ED
Chrysene	ND	ug/kg	71.7	11.3	10	08/12/24 10:36	08/14/24 10:27	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	71.7	13.9	10	08/12/24 10:36	08/14/24 10:27	53-70-3	ED
Fluoranthene	ND	ug/kg	71.7	48.1	10	08/12/24 10:36	08/14/24 10:27	206-44-0	ED
Fluorene	ND	ug/kg	143	73.8	10	08/12/24 10:36	08/14/24 10:27	86-73-7	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	71.7	27.7	10	08/12/24 10:36	08/14/24 10:27	193-39-5	ED
Naphthalene	ND	ug/kg	71.7	30.6	10	08/12/24 10:36	08/14/24 10:27	91-20-3	ED
Phenanthrene	ND	ug/kg	143	43.1	10	08/12/24 10:36	08/14/24 10:27	85-01-8	ED
Pyrene	ND	ug/kg	71.7	63.0	10	08/12/24 10:36	08/14/24 10:27	129-00-0	ED
Surrogates									
2-Fluorobiphenyl (S)	70	%.	46-99		10	08/12/24 10:36	08/14/24 10:27	321-60-8	
Terphenyl-d14 (S)	86	%.	48-118		10	08/12/24 10:36	08/14/24 10:27	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	358	53.2	1	08/09/24 10:01	08/13/24 19:49	83-32-9	
Acenaphthylene	ND	ug/kg	358	108	1	08/09/24 10:01	08/13/24 19:49	208-96-8	
Anthracene	ND	ug/kg	358	82.3	1	08/09/24 10:01	08/13/24 19:49	120-12-7	
Azobenzene	ND	ug/kg	358	126	1	08/09/24 10:01	08/13/24 19:49	103-33-3	
Benzo(a)anthracene	ND	ug/kg	358	62.1	1	08/09/24 10:01	08/13/24 19:49	56-55-3	
Benzo(a)pyrene	ND	ug/kg	358	111	1	08/09/24 10:01	08/13/24 19:49	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	358	109	1	08/09/24 10:01	08/13/24 19:49	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	358	124	1	08/09/24 10:01	08/13/24 19:49	191-24-2	

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-11(1-2)-01-1023 **Lab ID: 30705771007** Collected: 08/01/24 13:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	358	158	1	08/09/24 10:01	08/13/24 19:49	207-08-9	
Benzoic acid	ND	ug/kg	5380	1820	1	08/09/24 10:01	08/13/24 19:49	65-85-0	
Benzyl alcohol	ND	ug/kg	358	317	1	08/09/24 10:01	08/13/24 19:49	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	358	132	1	08/09/24 10:01	08/13/24 19:49	101-55-3	
Butylbenzylphthalate	ND	ug/kg	358	101	1	08/09/24 10:01	08/13/24 19:49	85-68-7	
Carbazole	ND	ug/kg	358	141	1	08/09/24 10:01	08/13/24 19:49	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	358	57.7	1	08/09/24 10:01	08/13/24 19:49	59-50-7	
4-Chloroaniline	ND	ug/kg	358	63.1	1	08/09/24 10:01	08/13/24 19:49	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	358	62.3	1	08/09/24 10:01	08/13/24 19:49	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	358	65.4	1	08/09/24 10:01	08/13/24 19:49	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	358	102	1	08/09/24 10:01	08/13/24 19:49	108-60-1	
2-Chloronaphthalene	ND	ug/kg	358	102	1	08/09/24 10:01	08/13/24 19:49	91-58-7	
2-Chlorophenol	ND	ug/kg	358	51.1	1	08/09/24 10:01	08/13/24 19:49	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	358	104	1	08/09/24 10:01	08/13/24 19:49	7005-72-3	
Chrysene	ND	ug/kg	358	53.1	1	08/09/24 10:01	08/13/24 19:49	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	358	136	1	08/09/24 10:01	08/13/24 19:49	53-70-3	
Dibenzofuran	ND	ug/kg	358	115	1	08/09/24 10:01	08/13/24 19:49	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	358	47.1	1	08/09/24 10:01	08/13/24 19:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	358	44.6	1	08/09/24 10:01	08/13/24 19:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	358	49.5	1	08/09/24 10:01	08/13/24 19:49	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	358	105	1	08/09/24 10:01	08/13/24 19:49	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	358	60.9	1	08/09/24 10:01	08/13/24 19:49	120-83-2	
Diethylphthalate	ND	ug/kg	358	126	1	08/09/24 10:01	08/13/24 19:49	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	358	109	1	08/09/24 10:01	08/13/24 19:49	105-67-9	
Dimethylphthalate	ND	ug/kg	358	111	1	08/09/24 10:01	08/13/24 19:49	131-11-3	
Di-n-butylphthalate	ND	ug/kg	2870	2620	1	08/09/24 10:01	08/13/24 19:49	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	896	267	1	08/09/24 10:01	08/13/24 19:49	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	896	806	1	08/09/24 10:01	08/13/24 19:49	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	358	109	1	08/09/24 10:01	08/13/24 19:49	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	358	109	1	08/09/24 10:01	08/13/24 19:49	606-20-2	
Di-n-octylphthalate	ND	ug/kg	358	236	1	08/09/24 10:01	08/13/24 19:49	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	358	114	1	08/09/24 10:01	08/13/24 19:49	117-81-7	
Fluoranthene	ND	ug/kg	358	115	1	08/09/24 10:01	08/13/24 19:49	206-44-0	
Fluorene	ND	ug/kg	358	110	1	08/09/24 10:01	08/13/24 19:49	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	358	56.2	1	08/09/24 10:01	08/13/24 19:49	87-68-3	
Hexachlorobenzene	ND	ug/kg	358	103	1	08/09/24 10:01	08/13/24 19:49	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	358	173	1	08/09/24 10:01	08/13/24 19:49	77-47-4	
Hexachloroethane	ND	ug/kg	358	96.7	1	08/09/24 10:01	08/13/24 19:49	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	358	135	1	08/09/24 10:01	08/13/24 19:49	193-39-5	
Isophorone	ND	ug/kg	358	51.7	1	08/09/24 10:01	08/13/24 19:49	78-59-1	
1-Methylnaphthalene	ND	ug/kg	358	90.1	1	08/09/24 10:01	08/13/24 19:49	90-12-0	
2-Methylnaphthalene	ND	ug/kg	358	52.4	1	08/09/24 10:01	08/13/24 19:49	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	358	129	1	08/09/24 10:01	08/13/24 19:49	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	717	220	1	08/09/24 10:01	08/13/24 19:49		

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-11(1-2)-01-1023 **Lab ID: 30705771007** Collected: 08/01/24 13:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	896	125	1	08/09/24 10:01	08/13/24 19:49	88-74-4	
3-Nitroaniline	ND	ug/kg	896	234	1	08/09/24 10:01	08/13/24 19:49	99-09-2	
4-Nitroaniline	ND	ug/kg	896	503	1	08/09/24 10:01	08/13/24 19:49	100-01-6	
Nitrobenzene	ND	ug/kg	358	51.5	1	08/09/24 10:01	08/13/24 19:49	98-95-3	
2-Nitrophenol	ND	ug/kg	358	67.1	1	08/09/24 10:01	08/13/24 19:49	88-75-5	
4-Nitrophenol	ND	ug/kg	358	121	1	08/09/24 10:01	08/13/24 19:49	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	358	61.5	1	08/09/24 10:01	08/13/24 19:49	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	358	63.1	1	08/09/24 10:01	08/13/24 19:49	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	358	80.8	1	08/09/24 10:01	08/13/24 19:49	86-30-6	
Pentachlorophenol	ND	ug/kg	896	472	1	08/09/24 10:01	08/13/24 19:49	87-86-5	
Phenanthrene	ND	ug/kg	358	65.0	1	08/09/24 10:01	08/13/24 19:49	85-01-8	
Phenol	ND	ug/kg	358	106	1	08/09/24 10:01	08/13/24 19:49	108-95-2	
Pyrene	ND	ug/kg	358	131	1	08/09/24 10:01	08/13/24 19:49	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	358	97.0	1	08/09/24 10:01	08/13/24 19:49	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	896	106	1	08/09/24 10:01	08/13/24 19:49	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	358	93.6	1	08/09/24 10:01	08/13/24 19:49	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	82	%.	32-154		1	08/09/24 10:01	08/13/24 19:49	4165-60-0	
2-Fluorobiphenyl (S)	84	%.	50-144		1	08/09/24 10:01	08/13/24 19:49	321-60-8	
Terphenyl-d14 (S)	99	%.	57-146		1	08/09/24 10:01	08/13/24 19:49	1718-51-0	
Phenol-d6 (S)	89	%.	54-121		1	08/09/24 10:01	08/13/24 19:49	13127-88-3	
2-Fluorophenol (S)	85	%.	57-124		1	08/09/24 10:01	08/13/24 19:49	367-12-4	
2,4,6-Tribromophenol (S)	91	%.	44-127		1	08/09/24 10:01	08/13/24 19:49	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	53.0	35.7	1	08/06/24 13:11	08/06/24 16:43	67-64-1	
Benzene	ND	ug/kg	5.3	0.92	1	08/06/24 13:11	08/06/24 16:43	71-43-2	
Bromochloromethane	ND	ug/kg	5.3	1.2	1	08/06/24 13:11	08/06/24 16:43	74-97-5	
Bromodichloromethane	ND	ug/kg	5.3	1.2	1	08/06/24 13:11	08/06/24 16:43	75-27-4	
Bromoform	ND	ug/kg	5.3	2.2	1	08/06/24 13:11	08/06/24 16:43	75-25-2	
Bromomethane	ND	ug/kg	5.3	2.0	1	08/06/24 13:11	08/06/24 16:43	74-83-9	2c
TOTAL BTEX	ND	ug/kg	31.8	6.5	1	08/06/24 13:11	08/06/24 16:43		
2-Butanone (MEK)	ND	ug/kg	10.6	2.8	1	08/06/24 13:11	08/06/24 16:43	78-93-3	
Carbon disulfide	**3.8J**	ug/kg	5.3	1.5	1	08/06/24 13:11	08/06/24 16:43	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.3	1.8	1	08/06/24 13:11	08/06/24 16:43	56-23-5	
Chlorobenzene	ND	ug/kg	5.3	0.83	1	08/06/24 13:11	08/06/24 16:43	108-90-7	
Chloroethane	ND	ug/kg	5.3	2.2	1	08/06/24 13:11	08/06/24 16:43	75-00-3	
Chloroform	ND	ug/kg	5.3	1.6	1	08/06/24 13:11	08/06/24 16:43	67-66-3	
Chloromethane	ND	ug/kg	5.3	1.8	1	08/06/24 13:11	08/06/24 16:43	74-87-3	
Dibromochloromethane	ND	ug/kg	5.3	0.84	1	08/06/24 13:11	08/06/24 16:43	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.3	0.63	1	08/06/24 13:11	08/06/24 16:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.3	0.69	1	08/06/24 13:11	08/06/24 16:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.3	0.75	1	08/06/24 13:11	08/06/24 16:43	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-11(1-2)-01-1023 **Lab ID: 30705771007** Collected: 08/01/24 13:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.3	1.3	1	08/06/24 13:11	08/06/24 16:43	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.3	1.4	1	08/06/24 13:11	08/06/24 16:43	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.6	2.6	1	08/06/24 13:11	08/06/24 16:43	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.3	2.0	1	08/06/24 13:11	08/06/24 16:43	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.3	1.2	1	08/06/24 13:11	08/06/24 16:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.3	1.3	1	08/06/24 13:11	08/06/24 16:43	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.3	0.76	1	08/06/24 13:11	08/06/24 16:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.3	0.53	1	08/06/24 13:11	08/06/24 16:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.3	1.1	1	08/06/24 13:11	08/06/24 16:43	10061-02-6	
Ethylbenzene	ND	ug/kg	5.3	1.1	1	08/06/24 13:11	08/06/24 16:43	100-41-4	
2-Hexanone	ND	ug/kg	10.6	2.5	1	08/06/24 13:11	08/06/24 16:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.3	1.2	1	08/06/24 13:11	08/06/24 16:43	98-82-8	
Methylene Chloride	ND	ug/kg	5.3	4.4	1	08/06/24 13:11	08/06/24 16:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.6	1.2	1	08/06/24 13:11	08/06/24 16:43	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.3	0.71	1	08/06/24 13:11	08/06/24 16:43	1634-04-4	
Naphthalene	ND	ug/kg	5.3	4.2	1	08/06/24 13:11	08/06/24 16:43	91-20-3	
Styrene	ND	ug/kg	5.3	1.5	1	08/06/24 13:11	08/06/24 16:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.3	0.63	1	08/06/24 13:11	08/06/24 16:43	79-34-5	
Tetrachloroethene	ND	ug/kg	5.3	1.8	1	08/06/24 13:11	08/06/24 16:43	127-18-4	
Toluene	ND	ug/kg	5.3	1.1	1	08/06/24 13:11	08/06/24 16:43	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.3	2.1	1	08/06/24 13:11	08/06/24 16:43	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.3	1.6	1	08/06/24 13:11	08/06/24 16:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.3	1.1	1	08/06/24 13:11	08/06/24 16:43	79-00-5	
Trichloroethene	ND	ug/kg	5.3	1.6	1	08/06/24 13:11	08/06/24 16:43	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.3	2.6	1	08/06/24 13:11	08/06/24 16:43	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.3	2.2	1	08/06/24 13:11	08/06/24 16:43	108-67-8	
Vinyl chloride	ND	ug/kg	5.3	2.2	1	08/06/24 13:11	08/06/24 16:43	75-01-4	
Xylene (Total)	ND	ug/kg	15.9	7.2	1	08/06/24 13:11	08/06/24 16:43	1330-20-7	
m&p-Xylene	ND	ug/kg	10.6	6.1	1	08/06/24 13:11	08/06/24 16:43	179601-23-1	
o-Xylene	ND	ug/kg	5.3	1.1	1	08/06/24 13:11	08/06/24 16:43	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 16:43	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	70-130		1	08/06/24 13:11	08/06/24 16:43	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130		1	08/06/24 13:11	08/06/24 16:43	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130		1	08/06/24 13:11	08/06/24 16:43	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**9.2**	%	0.10	0.10	1		08/06/24 11:56		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-11(7-8)-01-1024 **Lab ID: 30705771008** Collected: 08/01/24 13:15 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**5.5J**	mg/kg	6.1	0.42	1	08/05/24 11:01	08/06/24 14:26	7440-38-2	
Barium	**88.8**	mg/kg	6.1	0.44	1	08/05/24 11:01	08/06/24 14:26	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/05/24 11:01	08/06/24 14:26	7440-43-9	
Chromium	**24.5**	mg/kg	6.1	0.77	1	08/05/24 11:01	08/06/24 14:26	7440-47-3	
Lead	**15.6**	mg/kg	6.1	0.63	1	08/05/24 11:01	08/06/24 14:26	7439-92-1	
Selenium	**1.2J**	mg/kg	6.1	1.2	1	08/05/24 11:01	08/06/24 14:26	7782-49-2	
Silver	ND	mg/kg	3.1	0.43	1	08/05/24 11:01	08/06/24 14:26	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.054**	mg/kg	0.024	0.023	1	08/06/24 12:11	08/08/24 10:25	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.2	2.2	1	08/12/24 10:36	08/14/24 10:47	83-32-9	
Acenaphthylene	ND	ug/kg	8.2	1.7	1	08/12/24 10:36	08/14/24 10:47	208-96-8	
Anthracene	ND	ug/kg	8.2	1.6	1	08/12/24 10:36	08/14/24 10:47	120-12-7	
Benzo(a)anthracene	**5.3J**	ug/kg	8.2	2.2	1	08/12/24 10:36	08/14/24 10:47	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.2	3.6	1	08/12/24 10:36	08/14/24 10:47	50-32-8	
Benzo(b)fluoranthene	**13.0**	ug/kg	8.2	2.3	1	08/12/24 10:36	08/14/24 10:47	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	8.2	1.2	1	08/12/24 10:36	08/14/24 10:47	191-24-2	
Benzo(k)fluoranthene	**12.0**	ug/kg	8.2	1.4	1	08/12/24 10:36	08/14/24 10:47	207-08-9	lp
Chrysene	**6.2J**	ug/kg	8.2	1.3	1	08/12/24 10:36	08/14/24 10:47	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.2	1.6	1	08/12/24 10:36	08/14/24 10:47	53-70-3	
Fluoranthene	**13.7**	ug/kg	8.2	5.5	1	08/12/24 10:36	08/14/24 10:47	206-44-0	
Fluorene	ND	ug/kg	16.3	8.4	1	08/12/24 10:36	08/14/24 10:47	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.2	3.2	1	08/12/24 10:36	08/14/24 10:47	193-39-5	
Naphthalene	ND	ug/kg	8.2	3.5	1	08/12/24 10:36	08/14/24 10:47	91-20-3	
Phenanthrene	**7.7J**	ug/kg	16.3	4.9	1	08/12/24 10:36	08/14/24 10:47	85-01-8	
Pyrene	**11.1**	ug/kg	8.2	7.2	1	08/12/24 10:36	08/14/24 10:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	68	%.	46-99		1	08/12/24 10:36	08/14/24 10:47	321-60-8	
Terphenyl-d14 (S)	82	%.	48-118		1	08/12/24 10:36	08/14/24 10:47	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	397	58.9	1	08/09/24 10:01	08/13/24 20:11	83-32-9	
Acenaphthylene	ND	ug/kg	397	119	1	08/09/24 10:01	08/13/24 20:11	208-96-8	
Anthracene	ND	ug/kg	397	91.2	1	08/09/24 10:01	08/13/24 20:11	120-12-7	
Azobenzene	ND	ug/kg	397	140	1	08/09/24 10:01	08/13/24 20:11	103-33-3	
Benzo(a)anthracene	ND	ug/kg	397	68.7	1	08/09/24 10:01	08/13/24 20:11	56-55-3	
Benzo(a)pyrene	ND	ug/kg	397	123	1	08/09/24 10:01	08/13/24 20:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	397	121	1	08/09/24 10:01	08/13/24 20:11	205-99-2	lp
Benzo(g,h,i)perylene	ND	ug/kg	397	138	1	08/09/24 10:01	08/13/24 20:11	191-24-2	

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-11(7-8)-01-1024 **Lab ID: 30705771008** Collected: 08/01/24 13:15 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	397	175	1	08/09/24 10:01	08/13/24 20:11	207-08-9	Ip
Benzoic acid	ND	ug/kg	5950	2010	1	08/09/24 10:01	08/13/24 20:11	65-85-0	
Benzyl alcohol	ND	ug/kg	397	351	1	08/09/24 10:01	08/13/24 20:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	397	146	1	08/09/24 10:01	08/13/24 20:11	101-55-3	
Butylbenzylphthalate	ND	ug/kg	397	112	1	08/09/24 10:01	08/13/24 20:11	85-68-7	
Carbazole	ND	ug/kg	397	156	1	08/09/24 10:01	08/13/24 20:11	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	397	63.9	1	08/09/24 10:01	08/13/24 20:11	59-50-7	
4-Chloroaniline	ND	ug/kg	397	69.8	1	08/09/24 10:01	08/13/24 20:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	397	69.0	1	08/09/24 10:01	08/13/24 20:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	397	72.5	1	08/09/24 10:01	08/13/24 20:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	397	113	1	08/09/24 10:01	08/13/24 20:11	108-60-1	
2-Chloronaphthalene	ND	ug/kg	397	113	1	08/09/24 10:01	08/13/24 20:11	91-58-7	
2-Chlorophenol	ND	ug/kg	397	56.6	1	08/09/24 10:01	08/13/24 20:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	397	115	1	08/09/24 10:01	08/13/24 20:11	7005-72-3	
Chrysene	ND	ug/kg	397	58.8	1	08/09/24 10:01	08/13/24 20:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	397	151	1	08/09/24 10:01	08/13/24 20:11	53-70-3	
Dibenzofuran	ND	ug/kg	397	127	1	08/09/24 10:01	08/13/24 20:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	397	52.2	1	08/09/24 10:01	08/13/24 20:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	397	49.4	1	08/09/24 10:01	08/13/24 20:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	397	54.8	1	08/09/24 10:01	08/13/24 20:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	397	117	1	08/09/24 10:01	08/13/24 20:11	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	397	67.4	1	08/09/24 10:01	08/13/24 20:11	120-83-2	
Diethylphthalate	ND	ug/kg	397	140	1	08/09/24 10:01	08/13/24 20:11	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	397	121	1	08/09/24 10:01	08/13/24 20:11	105-67-9	
Dimethylphthalate	ND	ug/kg	397	122	1	08/09/24 10:01	08/13/24 20:11	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3170	2900	1	08/09/24 10:01	08/13/24 20:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	993	296	1	08/09/24 10:01	08/13/24 20:11	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	993	892	1	08/09/24 10:01	08/13/24 20:11	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	397	120	1	08/09/24 10:01	08/13/24 20:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	397	121	1	08/09/24 10:01	08/13/24 20:11	606-20-2	
Di-n-octylphthalate	ND	ug/kg	397	261	1	08/09/24 10:01	08/13/24 20:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	397	127	1	08/09/24 10:01	08/13/24 20:11	117-81-7	
Fluoranthene	ND	ug/kg	397	128	1	08/09/24 10:01	08/13/24 20:11	206-44-0	
Fluorene	ND	ug/kg	397	122	1	08/09/24 10:01	08/13/24 20:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	397	62.2	1	08/09/24 10:01	08/13/24 20:11	87-68-3	
Hexachlorobenzene	ND	ug/kg	397	114	1	08/09/24 10:01	08/13/24 20:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	397	191	1	08/09/24 10:01	08/13/24 20:11	77-47-4	
Hexachloroethane	ND	ug/kg	397	107	1	08/09/24 10:01	08/13/24 20:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	397	149	1	08/09/24 10:01	08/13/24 20:11	193-39-5	
Isophorone	ND	ug/kg	397	57.3	1	08/09/24 10:01	08/13/24 20:11	78-59-1	
1-Methylnaphthalene	ND	ug/kg	397	99.7	1	08/09/24 10:01	08/13/24 20:11	90-12-0	
2-Methylnaphthalene	ND	ug/kg	397	58.1	1	08/09/24 10:01	08/13/24 20:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	397	143	1	08/09/24 10:01	08/13/24 20:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	794	244	1	08/09/24 10:01	08/13/24 20:11		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-11(7-8)-01-1024 **Lab ID: 30705771008** Collected: 08/01/24 13:15 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	993	138	1	08/09/24 10:01	08/13/24 20:11	88-74-4	
3-Nitroaniline	ND	ug/kg	993	259	1	08/09/24 10:01	08/13/24 20:11	99-09-2	
4-Nitroaniline	ND	ug/kg	993	557	1	08/09/24 10:01	08/13/24 20:11	100-01-6	
Nitrobenzene	ND	ug/kg	397	57.0	1	08/09/24 10:01	08/13/24 20:11	98-95-3	
2-Nitrophenol	ND	ug/kg	397	74.3	1	08/09/24 10:01	08/13/24 20:11	88-75-5	
4-Nitrophenol	ND	ug/kg	397	133	1	08/09/24 10:01	08/13/24 20:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	397	68.0	1	08/09/24 10:01	08/13/24 20:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	397	69.8	1	08/09/24 10:01	08/13/24 20:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	397	89.5	1	08/09/24 10:01	08/13/24 20:11	86-30-6	
Pentachlorophenol	ND	ug/kg	993	523	1	08/09/24 10:01	08/13/24 20:11	87-86-5	
Phenanthrene	ND	ug/kg	397	72.0	1	08/09/24 10:01	08/13/24 20:11	85-01-8	
Phenol	ND	ug/kg	397	118	1	08/09/24 10:01	08/13/24 20:11	108-95-2	
Pyrene	ND	ug/kg	397	145	1	08/09/24 10:01	08/13/24 20:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	397	107	1	08/09/24 10:01	08/13/24 20:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	993	117	1	08/09/24 10:01	08/13/24 20:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	397	104	1	08/09/24 10:01	08/13/24 20:11	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	85	%.	32-154		1	08/09/24 10:01	08/13/24 20:11	4165-60-0	
2-Fluorobiphenyl (S)	85	%.	50-144		1	08/09/24 10:01	08/13/24 20:11	321-60-8	
Terphenyl-d14 (S)	97	%.	57-146		1	08/09/24 10:01	08/13/24 20:11	1718-51-0	
Phenol-d6 (S)	90	%.	54-121		1	08/09/24 10:01	08/13/24 20:11	13127-88-3	
2-Fluorophenol (S)	88	%.	57-124		1	08/09/24 10:01	08/13/24 20:11	367-12-4	
2,4,6-Tribromophenol (S)	94	%.	44-127		1	08/09/24 10:01	08/13/24 20:11	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**56.7J**	ug/kg	60.6	40.7	1	08/06/24 13:11	08/06/24 17:10	67-64-1	
Benzene	ND	ug/kg	6.1	1.1	1	08/06/24 13:11	08/06/24 17:10	71-43-2	
Bromochloromethane	ND	ug/kg	6.1	1.3	1	08/06/24 13:11	08/06/24 17:10	74-97-5	
Bromodichloromethane	ND	ug/kg	6.1	1.3	1	08/06/24 13:11	08/06/24 17:10	75-27-4	
Bromoform	ND	ug/kg	6.1	2.5	1	08/06/24 13:11	08/06/24 17:10	75-25-2	
Bromomethane	ND	ug/kg	6.1	2.3	1	08/06/24 13:11	08/06/24 17:10	74-83-9	2c
TOTAL BTEX	ND	ug/kg	36.3	7.4	1	08/06/24 13:11	08/06/24 17:10		
2-Butanone (MEK)	**10.3J**	ug/kg	12.1	3.2	1	08/06/24 13:11	08/06/24 17:10	78-93-3	
Carbon disulfide	**4.3J**	ug/kg	6.1	1.7	1	08/06/24 13:11	08/06/24 17:10	75-15-0	
Carbon tetrachloride	ND	ug/kg	6.1	2.1	1	08/06/24 13:11	08/06/24 17:10	56-23-5	
Chlorobenzene	ND	ug/kg	6.1	0.94	1	08/06/24 13:11	08/06/24 17:10	108-90-7	
Chloroethane	ND	ug/kg	6.1	2.5	1	08/06/24 13:11	08/06/24 17:10	75-00-3	
Chloroform	ND	ug/kg	6.1	1.8	1	08/06/24 13:11	08/06/24 17:10	67-66-3	
Chloromethane	ND	ug/kg	6.1	2.0	1	08/06/24 13:11	08/06/24 17:10	74-87-3	
Dibromochloromethane	ND	ug/kg	6.1	0.96	1	08/06/24 13:11	08/06/24 17:10	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	6.1	0.71	1	08/06/24 13:11	08/06/24 17:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	6.1	0.79	1	08/06/24 13:11	08/06/24 17:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	6.1	0.86	1	08/06/24 13:11	08/06/24 17:10	106-46-7	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-11(7-8)-01-1024 **Lab ID: 30705771008** Collected: 08/01/24 13:15 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	6.1	1.5	1	08/06/24 13:11	08/06/24 17:10	75-34-3	
1,2-Dichloroethane	ND	ug/kg	6.1	1.6	1	08/06/24 13:11	08/06/24 17:10	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	12.1	2.9	1	08/06/24 13:11	08/06/24 17:10	540-59-0	
1,1-Dichloroethene	ND	ug/kg	6.1	2.3	1	08/06/24 13:11	08/06/24 17:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	6.1	1.4	1	08/06/24 13:11	08/06/24 17:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	6.1	1.5	1	08/06/24 13:11	08/06/24 17:10	156-60-5	
1,2-Dichloropropane	ND	ug/kg	6.1	0.87	1	08/06/24 13:11	08/06/24 17:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	6.1	0.61	1	08/06/24 13:11	08/06/24 17:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	6.1	1.3	1	08/06/24 13:11	08/06/24 17:10	10061-02-6	
Ethylbenzene	ND	ug/kg	6.1	1.3	1	08/06/24 13:11	08/06/24 17:10	100-41-4	
2-Hexanone	ND	ug/kg	12.1	2.8	1	08/06/24 13:11	08/06/24 17:10	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	6.1	1.4	1	08/06/24 13:11	08/06/24 17:10	98-82-8	
Methylene Chloride	ND	ug/kg	6.1	5.1	1	08/06/24 13:11	08/06/24 17:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	12.1	1.4	1	08/06/24 13:11	08/06/24 17:10	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	6.1	0.81	1	08/06/24 13:11	08/06/24 17:10	1634-04-4	
Naphthalene	ND	ug/kg	6.1	4.8	1	08/06/24 13:11	08/06/24 17:10	91-20-3	
Styrene	ND	ug/kg	6.1	1.7	1	08/06/24 13:11	08/06/24 17:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1	0.71	1	08/06/24 13:11	08/06/24 17:10	79-34-5	
Tetrachloroethene	ND	ug/kg	6.1	2.1	1	08/06/24 13:11	08/06/24 17:10	127-18-4	
Toluene	ND	ug/kg	6.1	1.2	1	08/06/24 13:11	08/06/24 17:10	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	6.1	2.4	1	08/06/24 13:11	08/06/24 17:10	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	6.1	1.8	1	08/06/24 13:11	08/06/24 17:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	6.1	1.2	1	08/06/24 13:11	08/06/24 17:10	79-00-5	
Trichloroethene	ND	ug/kg	6.1	1.8	1	08/06/24 13:11	08/06/24 17:10	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	6.1	3.0	1	08/06/24 13:11	08/06/24 17:10	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	6.1	2.5	1	08/06/24 13:11	08/06/24 17:10	108-67-8	
Vinyl chloride	ND	ug/kg	6.1	2.5	1	08/06/24 13:11	08/06/24 17:10	75-01-4	
Xylene (Total)	ND	ug/kg	18.2	8.3	1	08/06/24 13:11	08/06/24 17:10	1330-20-7	
m&p-Xylene	ND	ug/kg	12.1	7.0	1	08/06/24 13:11	08/06/24 17:10	179601-23-1	
o-Xylene	ND	ug/kg	6.1	1.3	1	08/06/24 13:11	08/06/24 17:10	95-47-6	
Surrogates									
Toluene-d8 (S)	96	%.	70-130		1	08/06/24 13:11	08/06/24 17:10	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	08/06/24 13:11	08/06/24 17:10	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1	08/06/24 13:11	08/06/24 17:10	17060-07-0	
Dibromofluoromethane (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 17:10	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**18.1**	%	0.10	0.10	1		08/06/24 11:56		

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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-01-1025 **Lab ID: 30705771009** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**9.8J**	mg/kg	29.5	2.0	5	08/05/24 11:01	08/07/24 13:42	7440-38-2	
Barium	**33.1**	mg/kg	29.5	2.2	5	08/05/24 11:01	08/07/24 13:42	7440-39-3	
Cadmium	ND	mg/kg	5.9	0.83	5	08/05/24 11:01	08/07/24 13:42	7440-43-9	
Chromium	**29.7**	mg/kg	29.5	3.7	5	08/05/24 11:01	08/07/24 13:42	7440-47-3	M1
Lead	**23.0J**	mg/kg	29.5	3.0	5	08/05/24 11:01	08/07/24 13:42	7439-92-1	
Selenium	ND	mg/kg	29.5	5.9	5	08/05/24 11:01	08/07/24 13:42	7782-49-2	
Silver	ND	mg/kg	14.8	2.1	5	08/05/24 11:01	08/07/24 13:42	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.15**	mg/kg	0.023	0.022	1	08/06/24 12:11	08/08/24 10:32	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	78.7	20.7	10	08/12/24 10:36	08/14/24 11:07	83-32-9	ED
Acenaphthylene	ND	ug/kg	78.7	16.2	10	08/12/24 10:36	08/14/24 11:07	208-96-8	ED
Anthracene	ND	ug/kg	78.7	15.6	10	08/12/24 10:36	08/14/24 11:07	120-12-7	ED
Benzo(a)anthracene	**22.9J**	ug/kg	78.7	20.8	10	08/12/24 10:36	08/14/24 11:07	56-55-3	ED,R1
Benzo(a)pyrene	ND	ug/kg	78.7	34.4	10	08/12/24 10:36	08/14/24 11:07	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	78.7	22.5	10	08/12/24 10:36	08/14/24 11:07	205-99-2	ED,R1
Benzo(g,h,i)perylene	ND	ug/kg	78.7	11.9	10	08/12/24 10:36	08/14/24 11:07	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	78.7	13.2	10	08/12/24 10:36	08/14/24 11:07	207-08-9	ED
Chrysene	**16.9J**	ug/kg	78.7	12.4	10	08/12/24 10:36	08/14/24 11:07	218-01-9	ED,R1
Dibenz(a,h)anthracene	ND	ug/kg	78.7	15.3	10	08/12/24 10:36	08/14/24 11:07	53-70-3	ED
Fluoranthene	**55.3J**	ug/kg	78.7	52.8	10	08/12/24 10:36	08/14/24 11:07	206-44-0	ED
Fluorene	ND	ug/kg	157	81.1	10	08/12/24 10:36	08/14/24 11:07	86-73-7	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	78.7	30.4	10	08/12/24 10:36	08/14/24 11:07	193-39-5	ED
Naphthalene	ND	ug/kg	78.7	33.6	10	08/12/24 10:36	08/14/24 11:07	91-20-3	ED
Phenanthrene	ND	ug/kg	157	47.3	10	08/12/24 10:36	08/14/24 11:07	85-01-8	ED
Pyrene	ND	ug/kg	78.7	69.2	10	08/12/24 10:36	08/14/24 11:07	129-00-0	ED,R1
Surrogates									
2-Fluorobiphenyl (S)	73	%.	46-99		10	08/12/24 10:36	08/14/24 11:07	321-60-8	
Terphenyl-d14 (S)	83	%.	48-118		10	08/12/24 10:36	08/14/24 11:07	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	3920	582	10	08/09/24 10:01	08/13/24 20:34	83-32-9	ED
Acenaphthylene	ND	ug/kg	3920	1180	10	08/09/24 10:01	08/13/24 20:34	208-96-8	ED
Anthracene	ND	ug/kg	3920	900	10	08/09/24 10:01	08/13/24 20:34	120-12-7	ED
Azobenzene	ND	ug/kg	3920	1380	10	08/09/24 10:01	08/13/24 20:34	103-33-3	ED,MH
Benzo(a)anthracene	ND	ug/kg	3920	679	10	08/09/24 10:01	08/13/24 20:34	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3920	1220	10	08/09/24 10:01	08/13/24 20:34	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3920	1190	10	08/09/24 10:01	08/13/24 20:34	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3920	1360	10	08/09/24 10:01	08/13/24 20:34	191-24-2	ED

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-01-1025 **Lab ID: 30705771009** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	3920	1730	10	08/09/24 10:01	08/13/24 20:34	207-08-9	ED
Benzoic acid	ND	ug/kg	58800	19900	10	08/09/24 10:01	08/13/24 20:34	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3920	3460	10	08/09/24 10:01	08/13/24 20:34	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	3920	1440	10	08/09/24 10:01	08/13/24 20:34	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3920	1100	10	08/09/24 10:01	08/13/24 20:34	85-68-7	ED
Carbazole	ND	ug/kg	3920	1540	10	08/09/24 10:01	08/13/24 20:34	86-74-8	ED,MH
4-Chloro-3-methylphenol	ND	ug/kg	3920	631	10	08/09/24 10:01	08/13/24 20:34	59-50-7	ED,MH
4-Chloroaniline	ND	ug/kg	3920	690	10	08/09/24 10:01	08/13/24 20:34	106-47-8	ED,MH
bis(2-Chloroethoxy)methane	ND	ug/kg	3920	681	10	08/09/24 10:01	08/13/24 20:34	111-91-1	ED,MH
bis(2-Chloroethyl) ether	ND	ug/kg	3920	715	10	08/09/24 10:01	08/13/24 20:34	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3920	1110	10	08/09/24 10:01	08/13/24 20:34	108-60-1	ED,MH
2-Chloronaphthalene	ND	ug/kg	3920	1120	10	08/09/24 10:01	08/13/24 20:34	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3920	559	10	08/09/24 10:01	08/13/24 20:34	95-57-8	ED,MH
4-Chlorophenylphenyl ether	ND	ug/kg	3920	1130	10	08/09/24 10:01	08/13/24 20:34	7005-72-3	ED
Chrysene	ND	ug/kg	3920	581	10	08/09/24 10:01	08/13/24 20:34	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3920	1490	10	08/09/24 10:01	08/13/24 20:34	53-70-3	ED
Dibenzofuran	ND	ug/kg	3920	1260	10	08/09/24 10:01	08/13/24 20:34	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3920	515	10	08/09/24 10:01	08/13/24 20:34	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3920	488	10	08/09/24 10:01	08/13/24 20:34	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3920	541	10	08/09/24 10:01	08/13/24 20:34	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3920	1150	10	08/09/24 10:01	08/13/24 20:34	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3920	665	10	08/09/24 10:01	08/13/24 20:34	120-83-2	ED,MH
Diethylphthalate	ND	ug/kg	3920	1380	10	08/09/24 10:01	08/13/24 20:34	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3920	1190	10	08/09/24 10:01	08/13/24 20:34	105-67-9	ED,MH
Dimethylphthalate	ND	ug/kg	3920	1210	10	08/09/24 10:01	08/13/24 20:34	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	31300	28700	10	08/09/24 10:01	08/13/24 20:34	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9800	2920	10	08/09/24 10:01	08/13/24 20:34	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9800	8810	10	08/09/24 10:01	08/13/24 20:34	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3920	1190	10	08/09/24 10:01	08/13/24 20:34	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3920	1190	10	08/09/24 10:01	08/13/24 20:34	606-20-2	ED,MH
Di-n-octylphthalate	ND	ug/kg	3920	2580	10	08/09/24 10:01	08/13/24 20:34	117-84-0	ED
bis(2-Ethylhexyl)phthalate	**1380J**	ug/kg	3920	1250	10	08/09/24 10:01	08/13/24 20:34	117-81-7	ED
Fluoranthene	ND	ug/kg	3920	1260	10	08/09/24 10:01	08/13/24 20:34	206-44-0	ED
Fluorene	ND	ug/kg	3920	1200	10	08/09/24 10:01	08/13/24 20:34	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3920	614	10	08/09/24 10:01	08/13/24 20:34	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3920	1130	10	08/09/24 10:01	08/13/24 20:34	118-74-1	ED,MH
Hexachlorocyclopentadiene	ND	ug/kg	3920	1890	10	08/09/24 10:01	08/13/24 20:34	77-47-4	ED
Hexachloroethane	ND	ug/kg	3920	1060	10	08/09/24 10:01	08/13/24 20:34	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3920	1470	10	08/09/24 10:01	08/13/24 20:34	193-39-5	ED
Isophorone	ND	ug/kg	3920	566	10	08/09/24 10:01	08/13/24 20:34	78-59-1	ED,MH
1-Methylnaphthalene	ND	ug/kg	3920	985	10	08/09/24 10:01	08/13/24 20:34	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3920	573	10	08/09/24 10:01	08/13/24 20:34	91-57-6	ED,MH
2-Methylphenol(o-Cresol)	ND	ug/kg	3920	1410	10	08/09/24 10:01	08/13/24 20:34	95-48-7	ED,MH
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7840	2410	10	08/09/24 10:01	08/13/24 20:34		ED,MH

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-01-1025 **Lab ID: 30705771009** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	9800	1360	10	08/09/24 10:01	08/13/24 20:34	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9800	2560	10	08/09/24 10:01	08/13/24 20:34	99-09-2	ED,MH
4-Nitroaniline	ND	ug/kg	9800	5500	10	08/09/24 10:01	08/13/24 20:34	100-01-6	ED,ML
Nitrobenzene	ND	ug/kg	3920	563	10	08/09/24 10:01	08/13/24 20:34	98-95-3	ED,MH
2-Nitrophenol	ND	ug/kg	3920	734	10	08/09/24 10:01	08/13/24 20:34	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3920	1320	10	08/09/24 10:01	08/13/24 20:34	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3920	672	10	08/09/24 10:01	08/13/24 20:34	62-75-9	ED,MH
N-Nitroso-di-n-propylamine	ND	ug/kg	3920	690	10	08/09/24 10:01	08/13/24 20:34	621-64-7	ED,MH
N-Nitrosodiphenylamine	ND	ug/kg	3920	884	10	08/09/24 10:01	08/13/24 20:34	86-30-6	ED,MH
Pentachlorophenol	ND	ug/kg	9800	5160	10	08/09/24 10:01	08/13/24 20:34	87-86-5	ED
Phenanthrene	ND	ug/kg	3920	711	10	08/09/24 10:01	08/13/24 20:34	85-01-8	ED
Phenol	ND	ug/kg	3920	1160	10	08/09/24 10:01	08/13/24 20:34	108-95-2	ED,MH
Pyrene	ND	ug/kg	3920	1430	10	08/09/24 10:01	08/13/24 20:34	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3920	1060	10	08/09/24 10:01	08/13/24 20:34	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9800	1160	10	08/09/24 10:01	08/13/24 20:34	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3920	1020	10	08/09/24 10:01	08/13/24 20:34	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	91	%.	32-154		10	08/09/24 10:01	08/13/24 20:34	4165-60-0	
2-Fluorobiphenyl (S)	96	%.	50-144		10	08/09/24 10:01	08/13/24 20:34	321-60-8	
Terphenyl-d14 (S)	103	%.	57-146		10	08/09/24 10:01	08/13/24 20:34	1718-51-0	
Phenol-d6 (S)	106	%.	54-121		10	08/09/24 10:01	08/13/24 20:34	13127-88-3	
2-Fluorophenol (S)	102	%.	57-124		10	08/09/24 10:01	08/13/24 20:34	367-12-4	
2,4,6-Tribromophenol (S)	81	%.	44-127		10	08/09/24 10:01	08/13/24 20:34	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	50.2	33.7	1	08/06/24 13:11	08/06/24 17:38	67-64-1	
Benzene	**1.2J**	ug/kg	5.0	0.87	1	08/06/24 13:11	08/06/24 17:38	71-43-2	
Bromochloromethane	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 17:38	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 17:38	75-27-4	
Bromoform	ND	ug/kg	5.0	2.0	1	08/06/24 13:11	08/06/24 17:38	75-25-2	
Bromomethane	ND	ug/kg	5.0	1.9	1	08/06/24 13:11	08/06/24 17:38	74-83-9	2c
TOTAL BTEX	ND	ug/kg	30.1	6.1	1	08/06/24 13:11	08/06/24 17:38		
2-Butanone (MEK)	ND	ug/kg	10.0	2.6	1	08/06/24 13:11	08/06/24 17:38	78-93-3	
Carbon disulfide	ND	ug/kg	5.0	1.4	1	08/06/24 13:11	08/06/24 17:38	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1.7	1	08/06/24 13:11	08/06/24 17:38	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	0.78	1	08/06/24 13:11	08/06/24 17:38	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.1	1	08/06/24 13:11	08/06/24 17:38	75-00-3	
Chloroform	ND	ug/kg	5.0	1.5	1	08/06/24 13:11	08/06/24 17:38	67-66-3	
Chloromethane	ND	ug/kg	5.0	1.7	1	08/06/24 13:11	08/06/24 17:38	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	0.79	1	08/06/24 13:11	08/06/24 17:38	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.0	0.59	1	08/06/24 13:11	08/06/24 17:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	0.65	1	08/06/24 13:11	08/06/24 17:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	0.71	1	08/06/24 13:11	08/06/24 17:38	106-46-7	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-01-1025 **Lab ID: 30705771009** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.0	1.3	1	08/06/24 13:11	08/06/24 17:38	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1.3	1	08/06/24 13:11	08/06/24 17:38	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.0	2.4	1	08/06/24 13:11	08/06/24 17:38	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1.9	1	08/06/24 13:11	08/06/24 17:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1.2	1	08/06/24 13:11	08/06/24 17:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1.3	1	08/06/24 13:11	08/06/24 17:38	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	0.72	1	08/06/24 13:11	08/06/24 17:38	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	0.50	1	08/06/24 13:11	08/06/24 17:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1.0	1	08/06/24 13:11	08/06/24 17:38	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 17:38	100-41-4	
2-Hexanone	ND	ug/kg	10.0	2.3	1	08/06/24 13:11	08/06/24 17:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1.2	1	08/06/24 13:11	08/06/24 17:38	98-82-8	
Methylene Chloride	ND	ug/kg	5.0	4.2	1	08/06/24 13:11	08/06/24 17:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	1.1	1	08/06/24 13:11	08/06/24 17:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.0	0.67	1	08/06/24 13:11	08/06/24 17:38	1634-04-4	
Naphthalene	ND	ug/kg	5.0	4.0	1	08/06/24 13:11	08/06/24 17:38	91-20-3	
Styrene	ND	ug/kg	5.0	1.4	1	08/06/24 13:11	08/06/24 17:38	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	0.59	1	08/06/24 13:11	08/06/24 17:38	79-34-5	
Tetrachloroethene	ND	ug/kg	5.0	1.7	1	08/06/24 13:11	08/06/24 17:38	127-18-4	
Toluene	ND	ug/kg	5.0	0.99	1	08/06/24 13:11	08/06/24 17:38	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	2.0	1	08/06/24 13:11	08/06/24 17:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.0	1.5	1	08/06/24 13:11	08/06/24 17:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	0.99	1	08/06/24 13:11	08/06/24 17:38	79-00-5	
Trichloroethene	ND	ug/kg	5.0	1.5	1	08/06/24 13:11	08/06/24 17:38	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	2.5	1	08/06/24 13:11	08/06/24 17:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	2.0	1	08/06/24 13:11	08/06/24 17:38	108-67-8	
Vinyl chloride	ND	ug/kg	5.0	2.1	1	08/06/24 13:11	08/06/24 17:38	75-01-4	
Xylene (Total)	ND	ug/kg	15.1	6.9	1	08/06/24 13:11	08/06/24 17:38	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	5.8	1	08/06/24 13:11	08/06/24 17:38	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 17:38	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	08/06/24 13:11	08/06/24 17:38	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	70-130		1	08/06/24 13:11	08/06/24 17:38	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130		1	08/06/24 13:11	08/06/24 17:38	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 17:38	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**15.7**	%	0.10	0.10	1		08/06/24 11:56		D6

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225 Industrial Park RD
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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-02-1026 **Lab ID: 30705771010** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**15.9**	mg/kg	6.0	0.41	1	08/05/24 11:01	08/06/24 14:45	7440-38-2	
Barium	**44.8**	mg/kg	6.0	0.43	1	08/05/24 11:01	08/06/24 14:45	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/05/24 11:01	08/06/24 14:45	7440-43-9	
Chromium	**49.4**	mg/kg	6.0	0.75	1	08/05/24 11:01	08/06/24 14:45	7440-47-3	
Lead	**25.1**	mg/kg	6.0	0.61	1	08/05/24 11:01	08/06/24 14:45	7439-92-1	
Selenium	**2.9J**	mg/kg	6.0	1.2	1	08/05/24 11:01	08/06/24 14:45	7782-49-2	
Silver	ND	mg/kg	3.0	0.43	1	08/05/24 11:01	08/06/24 14:45	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.27**	mg/kg	0.024	0.022	1	08/06/24 12:11	08/08/24 10:39	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	78.2	20.6	10	08/12/24 10:36	08/14/24 12:05	83-32-9	ED
Acenaphthylene	ND	ug/kg	78.2	16.1	10	08/12/24 10:36	08/14/24 12:05	208-96-8	ED
Anthracene	ND	ug/kg	78.2	15.5	10	08/12/24 10:36	08/14/24 12:05	120-12-7	ED
Benzo(a)anthracene	ND	ug/kg	78.2	20.6	10	08/12/24 10:36	08/14/24 12:05	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	78.2	34.1	10	08/12/24 10:36	08/14/24 12:05	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	78.2	22.3	10	08/12/24 10:36	08/14/24 12:05	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	78.2	11.8	10	08/12/24 10:36	08/14/24 12:05	191-24-2	ED
Benzo(k)fluoranthene	ND	ug/kg	78.2	13.1	10	08/12/24 10:36	08/14/24 12:05	207-08-9	ED
Chrysene	ND	ug/kg	78.2	12.3	10	08/12/24 10:36	08/14/24 12:05	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	78.2	15.2	10	08/12/24 10:36	08/14/24 12:05	53-70-3	ED
Fluoranthene	ND	ug/kg	78.2	52.4	10	08/12/24 10:36	08/14/24 12:05	206-44-0	ED
Fluorene	ND	ug/kg	156	80.5	10	08/12/24 10:36	08/14/24 12:05	86-73-7	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	78.2	30.2	10	08/12/24 10:36	08/14/24 12:05	193-39-5	ED
Naphthalene	ND	ug/kg	78.2	33.3	10	08/12/24 10:36	08/14/24 12:05	91-20-3	ED
Phenanthrene	ND	ug/kg	156	47.0	10	08/12/24 10:36	08/14/24 12:05	85-01-8	ED
Pyrene	ND	ug/kg	78.2	68.7	10	08/12/24 10:36	08/14/24 12:05	129-00-0	ED
Surrogates									
2-Fluorobiphenyl (S)	83	%.	46-99		10	08/12/24 10:36	08/14/24 12:05	321-60-8	
Terphenyl-d14 (S)	90	%.	48-118		10	08/12/24 10:36	08/14/24 12:05	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	3870	575	10	08/09/24 10:01	08/13/24 21:40	83-32-9	ED
Acenaphthylene	ND	ug/kg	3870	1160	10	08/09/24 10:01	08/13/24 21:40	208-96-8	ED
Anthracene	ND	ug/kg	3870	889	10	08/09/24 10:01	08/13/24 21:40	120-12-7	ED
Azobenzene	ND	ug/kg	3870	1370	10	08/09/24 10:01	08/13/24 21:40	103-33-3	ED
Benzo(a)anthracene	ND	ug/kg	3870	671	10	08/09/24 10:01	08/13/24 21:40	56-55-3	ED
Benzo(a)pyrene	ND	ug/kg	3870	1200	10	08/09/24 10:01	08/13/24 21:40	50-32-8	ED
Benzo(b)fluoranthene	ND	ug/kg	3870	1180	10	08/09/24 10:01	08/13/24 21:40	205-99-2	ED
Benzo(g,h,i)perylene	ND	ug/kg	3870	1340	10	08/09/24 10:01	08/13/24 21:40	191-24-2	ED

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-02-1026 **Lab ID: 30705771010** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	3870	1710	10	08/09/24 10:01	08/13/24 21:40	207-08-9	ED
Benzoic acid	ND	ug/kg	58100	19600	10	08/09/24 10:01	08/13/24 21:40	65-85-0	ED
Benzyl alcohol	ND	ug/kg	3870	3420	10	08/09/24 10:01	08/13/24 21:40	100-51-6	ED
4-Bromophenylphenyl ether	ND	ug/kg	3870	1420	10	08/09/24 10:01	08/13/24 21:40	101-55-3	ED
Butylbenzylphthalate	ND	ug/kg	3870	1090	10	08/09/24 10:01	08/13/24 21:40	85-68-7	ED
Carbazole	ND	ug/kg	3870	1520	10	08/09/24 10:01	08/13/24 21:40	86-74-8	ED
4-Chloro-3-methylphenol	ND	ug/kg	3870	623	10	08/09/24 10:01	08/13/24 21:40	59-50-7	ED
4-Chloroaniline	ND	ug/kg	3870	681	10	08/09/24 10:01	08/13/24 21:40	106-47-8	ED
bis(2-Chloroethoxy)methane	ND	ug/kg	3870	673	10	08/09/24 10:01	08/13/24 21:40	111-91-1	ED
bis(2-Chloroethyl) ether	ND	ug/kg	3870	707	10	08/09/24 10:01	08/13/24 21:40	111-44-4	ED
bis(2-Chloroisopropyl) ether	ND	ug/kg	3870	1100	10	08/09/24 10:01	08/13/24 21:40	108-60-1	ED
2-Chloronaphthalene	ND	ug/kg	3870	1110	10	08/09/24 10:01	08/13/24 21:40	91-58-7	ED
2-Chlorophenol	ND	ug/kg	3870	552	10	08/09/24 10:01	08/13/24 21:40	95-57-8	ED
4-Chlorophenylphenyl ether	ND	ug/kg	3870	1120	10	08/09/24 10:01	08/13/24 21:40	7005-72-3	ED
Chrysene	ND	ug/kg	3870	574	10	08/09/24 10:01	08/13/24 21:40	218-01-9	ED
Dibenz(a,h)anthracene	ND	ug/kg	3870	1470	10	08/09/24 10:01	08/13/24 21:40	53-70-3	ED
Dibenzofuran	ND	ug/kg	3870	1240	10	08/09/24 10:01	08/13/24 21:40	132-64-9	ED
1,2-Dichlorobenzene	ND	ug/kg	3870	509	10	08/09/24 10:01	08/13/24 21:40	95-50-1	ED
1,3-Dichlorobenzene	ND	ug/kg	3870	482	10	08/09/24 10:01	08/13/24 21:40	541-73-1	ED
1,4-Dichlorobenzene	ND	ug/kg	3870	535	10	08/09/24 10:01	08/13/24 21:40	106-46-7	ED
3,3'-Dichlorobenzidine	ND	ug/kg	3870	1140	10	08/09/24 10:01	08/13/24 21:40	91-94-1	ED
2,4-Dichlorophenol	ND	ug/kg	3870	657	10	08/09/24 10:01	08/13/24 21:40	120-83-2	ED
Diethylphthalate	ND	ug/kg	3870	1360	10	08/09/24 10:01	08/13/24 21:40	84-66-2	ED
2,4-Dimethylphenol	ND	ug/kg	3870	1180	10	08/09/24 10:01	08/13/24 21:40	105-67-9	ED
Dimethylphthalate	ND	ug/kg	3870	1190	10	08/09/24 10:01	08/13/24 21:40	131-11-3	ED
Di-n-butylphthalate	ND	ug/kg	31000	28300	10	08/09/24 10:01	08/13/24 21:40	84-74-2	ED
4,6-Dinitro-2-methylphenol	ND	ug/kg	9680	2880	10	08/09/24 10:01	08/13/24 21:40	534-52-1	ED
2,4-Dinitrophenol	ND	ug/kg	9680	8710	10	08/09/24 10:01	08/13/24 21:40	51-28-5	ED
2,4-Dinitrotoluene	ND	ug/kg	3870	1180	10	08/09/24 10:01	08/13/24 21:40	121-14-2	ED
2,6-Dinitrotoluene	ND	ug/kg	3870	1180	10	08/09/24 10:01	08/13/24 21:40	606-20-2	ED
Di-n-octylphthalate	ND	ug/kg	3870	2550	10	08/09/24 10:01	08/13/24 21:40	117-84-0	ED
bis(2-Ethylhexyl)phthalate	ND	ug/kg	3870	1230	10	08/09/24 10:01	08/13/24 21:40	117-81-7	ED
Fluoranthene	ND	ug/kg	3870	1250	10	08/09/24 10:01	08/13/24 21:40	206-44-0	ED
Fluorene	ND	ug/kg	3870	1190	10	08/09/24 10:01	08/13/24 21:40	86-73-7	ED
Hexachloro-1,3-butadiene	ND	ug/kg	3870	607	10	08/09/24 10:01	08/13/24 21:40	87-68-3	ED
Hexachlorobenzene	ND	ug/kg	3870	1110	10	08/09/24 10:01	08/13/24 21:40	118-74-1	ED
Hexachlorocyclopentadiene	ND	ug/kg	3870	1870	10	08/09/24 10:01	08/13/24 21:40	77-47-4	ED
Hexachloroethane	ND	ug/kg	3870	1050	10	08/09/24 10:01	08/13/24 21:40	67-72-1	ED
Indeno(1,2,3-cd)pyrene	ND	ug/kg	3870	1460	10	08/09/24 10:01	08/13/24 21:40	193-39-5	ED
Isophorone	ND	ug/kg	3870	559	10	08/09/24 10:01	08/13/24 21:40	78-59-1	ED
1-Methylnaphthalene	ND	ug/kg	3870	973	10	08/09/24 10:01	08/13/24 21:40	90-12-0	ED
2-Methylnaphthalene	ND	ug/kg	3870	566	10	08/09/24 10:01	08/13/24 21:40	91-57-6	ED
2-Methylphenol(o-Cresol)	ND	ug/kg	3870	1390	10	08/09/24 10:01	08/13/24 21:40	95-48-7	ED
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	7740	2380	10	08/09/24 10:01	08/13/24 21:40		ED

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-02-1026 **Lab ID: 30705771010** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	9680	1350	10	08/09/24 10:01	08/13/24 21:40	88-74-4	ED
3-Nitroaniline	ND	ug/kg	9680	2530	10	08/09/24 10:01	08/13/24 21:40	99-09-2	ED
4-Nitroaniline	ND	ug/kg	9680	5440	10	08/09/24 10:01	08/13/24 21:40	100-01-6	ED
Nitrobenzene	ND	ug/kg	3870	556	10	08/09/24 10:01	08/13/24 21:40	98-95-3	ED
2-Nitrophenol	ND	ug/kg	3870	725	10	08/09/24 10:01	08/13/24 21:40	88-75-5	ED
4-Nitrophenol	ND	ug/kg	3870	1300	10	08/09/24 10:01	08/13/24 21:40	100-02-7	ED
N-Nitrosodimethylamine	ND	ug/kg	3870	664	10	08/09/24 10:01	08/13/24 21:40	62-75-9	ED
N-Nitroso-di-n-propylamine	ND	ug/kg	3870	681	10	08/09/24 10:01	08/13/24 21:40	621-64-7	ED
N-Nitrosodiphenylamine	ND	ug/kg	3870	873	10	08/09/24 10:01	08/13/24 21:40	86-30-6	ED
Pentachlorophenol	ND	ug/kg	9680	5100	10	08/09/24 10:01	08/13/24 21:40	87-86-5	ED
Phenanthrene	ND	ug/kg	3870	702	10	08/09/24 10:01	08/13/24 21:40	85-01-8	ED
Phenol	ND	ug/kg	3870	1150	10	08/09/24 10:01	08/13/24 21:40	108-95-2	ED
Pyrene	ND	ug/kg	3870	1410	10	08/09/24 10:01	08/13/24 21:40	129-00-0	ED
1,2,4-Trichlorobenzene	ND	ug/kg	3870	1050	10	08/09/24 10:01	08/13/24 21:40	120-82-1	ED
2,4,5-Trichlorophenol	ND	ug/kg	9680	1150	10	08/09/24 10:01	08/13/24 21:40	95-95-4	ED
2,4,6-Trichlorophenol	ND	ug/kg	3870	1010	10	08/09/24 10:01	08/13/24 21:40	88-06-2	ED
Surrogates									
Nitrobenzene-d5 (S)	97	%.	32-154		10	08/09/24 10:01	08/13/24 21:40	4165-60-0	
2-Fluorobiphenyl (S)	100	%.	50-144		10	08/09/24 10:01	08/13/24 21:40	321-60-8	
Terphenyl-d14 (S)	113	%.	57-146		10	08/09/24 10:01	08/13/24 21:40	1718-51-0	
Phenol-d6 (S)	106	%.	54-121		10	08/09/24 10:01	08/13/24 21:40	13127-88-3	
2-Fluorophenol (S)	99	%.	57-124		10	08/09/24 10:01	08/13/24 21:40	367-12-4	
2,4,6-Tribromophenol (S)	89	%.	44-127		10	08/09/24 10:01	08/13/24 21:40	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	43.8	29.4	1	08/06/24 13:11	08/06/24 19:01	67-64-1	
Benzene	ND	ug/kg	4.4	0.76	1	08/06/24 13:11	08/06/24 19:01	71-43-2	
Bromochloromethane	ND	ug/kg	4.4	0.95	1	08/06/24 13:11	08/06/24 19:01	74-97-5	
Bromodichloromethane	ND	ug/kg	4.4	0.95	1	08/06/24 13:11	08/06/24 19:01	75-27-4	
Bromoform	ND	ug/kg	4.4	1.8	1	08/06/24 13:11	08/06/24 19:01	75-25-2	
Bromomethane	ND	ug/kg	4.4	1.6	1	08/06/24 13:11	08/06/24 19:01	74-83-9	2c
TOTAL BTEX	ND	ug/kg	26.3	5.4	1	08/06/24 13:11	08/06/24 19:01		
2-Butanone (MEK)	ND	ug/kg	8.8	2.3	1	08/06/24 13:11	08/06/24 19:01	78-93-3	
Carbon disulfide	ND	ug/kg	4.4	1.2	1	08/06/24 13:11	08/06/24 19:01	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.4	1.5	1	08/06/24 13:11	08/06/24 19:01	56-23-5	
Chlorobenzene	ND	ug/kg	4.4	0.68	1	08/06/24 13:11	08/06/24 19:01	108-90-7	
Chloroethane	ND	ug/kg	4.4	1.8	1	08/06/24 13:11	08/06/24 19:01	75-00-3	
Chloroform	ND	ug/kg	4.4	1.3	1	08/06/24 13:11	08/06/24 19:01	67-66-3	
Chloromethane	ND	ug/kg	4.4	1.5	1	08/06/24 13:11	08/06/24 19:01	74-87-3	
Dibromochloromethane	ND	ug/kg	4.4	0.69	1	08/06/24 13:11	08/06/24 19:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.4	0.52	1	08/06/24 13:11	08/06/24 19:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.4	0.57	1	08/06/24 13:11	08/06/24 19:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.4	0.62	1	08/06/24 13:11	08/06/24 19:01	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-12(1-2)-02-1026 **Lab ID: 30705771010** Collected: 08/01/24 15:20 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.4	1.1	1	08/06/24 13:11	08/06/24 19:01	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.4	1.1	1	08/06/24 13:11	08/06/24 19:01	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	8.8	2.1	1	08/06/24 13:11	08/06/24 19:01	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.4	1.6	1	08/06/24 13:11	08/06/24 19:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.4	1.0	1	08/06/24 13:11	08/06/24 19:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.4	1.1	1	08/06/24 13:11	08/06/24 19:01	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.4	0.63	1	08/06/24 13:11	08/06/24 19:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.4	0.44	1	08/06/24 13:11	08/06/24 19:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.4	0.91	1	08/06/24 13:11	08/06/24 19:01	10061-02-6	
Ethylbenzene	ND	ug/kg	4.4	0.95	1	08/06/24 13:11	08/06/24 19:01	100-41-4	
2-Hexanone	ND	ug/kg	8.8	2.0	1	08/06/24 13:11	08/06/24 19:01	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.4	1.0	1	08/06/24 13:11	08/06/24 19:01	98-82-8	
Methylene Chloride	ND	ug/kg	4.4	3.7	1	08/06/24 13:11	08/06/24 19:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.8	0.98	1	08/06/24 13:11	08/06/24 19:01	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.4	0.59	1	08/06/24 13:11	08/06/24 19:01	1634-04-4	
Naphthalene	ND	ug/kg	4.4	3.5	1	08/06/24 13:11	08/06/24 19:01	91-20-3	
Styrene	ND	ug/kg	4.4	1.3	1	08/06/24 13:11	08/06/24 19:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.4	0.52	1	08/06/24 13:11	08/06/24 19:01	79-34-5	
Tetrachloroethene	ND	ug/kg	4.4	1.5	1	08/06/24 13:11	08/06/24 19:01	127-18-4	
Toluene	ND	ug/kg	4.4	0.87	1	08/06/24 13:11	08/06/24 19:01	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.4	1.7	1	08/06/24 13:11	08/06/24 19:01	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.4	1.3	1	08/06/24 13:11	08/06/24 19:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.4	0.87	1	08/06/24 13:11	08/06/24 19:01	79-00-5	
Trichloroethene	ND	ug/kg	4.4	1.3	1	08/06/24 13:11	08/06/24 19:01	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.4	2.1	1	08/06/24 13:11	08/06/24 19:01	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.4	1.8	1	08/06/24 13:11	08/06/24 19:01	108-67-8	
Vinyl chloride	ND	ug/kg	4.4	1.8	1	08/06/24 13:11	08/06/24 19:01	75-01-4	
Xylene (Total)	ND	ug/kg	13.1	6.0	1	08/06/24 13:11	08/06/24 19:01	1330-20-7	
m&p-Xylene	ND	ug/kg	8.8	5.0	1	08/06/24 13:11	08/06/24 19:01	179601-23-1	
o-Xylene	ND	ug/kg	4.4	0.94	1	08/06/24 13:11	08/06/24 19:01	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	08/06/24 13:11	08/06/24 19:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/06/24 13:11	08/06/24 19:01	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1	08/06/24 13:11	08/06/24 19:01	17060-07-0	
Dibromofluoromethane (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 19:01	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**16.2**	%	0.10	0.10	1		08/06/24 11:56		

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-01-1027 **Lab ID: 30705771011** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**11.5**	mg/kg	6.6	0.46	1	08/05/24 11:01	08/06/24 14:47	7440-38-2	
Barium	**33.6**	mg/kg	6.6	0.48	1	08/05/24 11:01	08/06/24 14:47	7440-39-3	
Cadmium	ND	mg/kg	1.3	0.18	1	08/05/24 11:01	08/06/24 14:47	7440-43-9	
Chromium	**40.3**	mg/kg	6.6	0.83	1	08/05/24 11:01	08/06/24 14:47	7440-47-3	
Lead	**14.3**	mg/kg	6.6	0.68	1	08/05/24 11:01	08/06/24 14:47	7439-92-1	
Selenium	**1.5J**	mg/kg	6.6	1.3	1	08/05/24 11:01	08/06/24 14:47	7782-49-2	
Silver	ND	mg/kg	3.3	0.47	1	08/05/24 11:01	08/06/24 14:47	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.063**	mg/kg	0.026	0.024	1	08/06/24 12:11	08/08/24 10:42	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.7	2.3	1	08/12/24 10:36	08/14/24 12:25	83-32-9	R1
Acenaphthylene	ND	ug/kg	8.7	1.8	1	08/12/24 10:36	08/14/24 12:25	208-96-8	R1
Anthracene	ND	ug/kg	8.7	1.7	1	08/12/24 10:36	08/14/24 12:25	120-12-7	R1
Benzo(a)anthracene	ND	ug/kg	8.7	2.3	1	08/12/24 10:36	08/14/24 12:25	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.7	3.8	1	08/12/24 10:36	08/14/24 12:25	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.7	2.5	1	08/12/24 10:36	08/14/24 12:25	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.7	1.3	1	08/12/24 10:36	08/14/24 12:25	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.7	1.5	1	08/12/24 10:36	08/14/24 12:25	207-08-9	
Chrysene	ND	ug/kg	8.7	1.4	1	08/12/24 10:36	08/14/24 12:25	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.7	1.7	1	08/12/24 10:36	08/14/24 12:25	53-70-3	
Fluoranthene	ND	ug/kg	8.7	5.8	1	08/12/24 10:36	08/14/24 12:25	206-44-0	
Fluorene	ND	ug/kg	17.3	8.9	1	08/12/24 10:36	08/14/24 12:25	86-73-7	R1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.7	3.3	1	08/12/24 10:36	08/14/24 12:25	193-39-5	
Naphthalene	ND	ug/kg	8.7	3.7	1	08/12/24 10:36	08/14/24 12:25	91-20-3	R1
Phenanthrene	ND	ug/kg	17.3	5.2	1	08/12/24 10:36	08/14/24 12:25	85-01-8	R1
Pyrene	ND	ug/kg	8.7	7.6	1	08/12/24 10:36	08/14/24 12:25	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	46-99		1	08/12/24 10:36	08/14/24 12:25	321-60-8	
Terphenyl-d14 (S)	87	%.	48-118		1	08/12/24 10:36	08/14/24 12:25	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	437	64.9	1	08/09/24 10:01	08/13/24 22:02	83-32-9	
Acenaphthylene	ND	ug/kg	437	131	1	08/09/24 10:01	08/13/24 22:02	208-96-8	
Anthracene	ND	ug/kg	437	100	1	08/09/24 10:01	08/13/24 22:02	120-12-7	
Azobenzene	ND	ug/kg	437	154	1	08/09/24 10:01	08/13/24 22:02	103-33-3	
Benzo(a)anthracene	ND	ug/kg	437	75.6	1	08/09/24 10:01	08/13/24 22:02	56-55-3	
Benzo(a)pyrene	ND	ug/kg	437	136	1	08/09/24 10:01	08/13/24 22:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	437	133	1	08/09/24 10:01	08/13/24 22:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	437	151	1	08/09/24 10:01	08/13/24 22:02	191-24-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-01-1027 **Lab ID: 30705771011** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	437	193	1	08/09/24 10:01	08/13/24 22:02	207-08-9	
Benzoic acid	ND	ug/kg	6550	2210	1	08/09/24 10:01	08/13/24 22:02	65-85-0	
Benzyl alcohol	ND	ug/kg	437	386	1	08/09/24 10:01	08/13/24 22:02	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	437	161	1	08/09/24 10:01	08/13/24 22:02	101-55-3	
Butylbenzylphthalate	ND	ug/kg	437	123	1	08/09/24 10:01	08/13/24 22:02	85-68-7	
Carbazole	ND	ug/kg	437	172	1	08/09/24 10:01	08/13/24 22:02	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	437	70.3	1	08/09/24 10:01	08/13/24 22:02	59-50-7	
4-Chloroaniline	ND	ug/kg	437	76.9	1	08/09/24 10:01	08/13/24 22:02	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	437	75.9	1	08/09/24 10:01	08/13/24 22:02	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	437	79.7	1	08/09/24 10:01	08/13/24 22:02	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	437	124	1	08/09/24 10:01	08/13/24 22:02	108-60-1	
2-Chloronaphthalene	ND	ug/kg	437	125	1	08/09/24 10:01	08/13/24 22:02	91-58-7	
2-Chlorophenol	ND	ug/kg	437	62.3	1	08/09/24 10:01	08/13/24 22:02	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	437	126	1	08/09/24 10:01	08/13/24 22:02	7005-72-3	
Chrysene	ND	ug/kg	437	64.8	1	08/09/24 10:01	08/13/24 22:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	437	166	1	08/09/24 10:01	08/13/24 22:02	53-70-3	
Dibenzofuran	ND	ug/kg	437	140	1	08/09/24 10:01	08/13/24 22:02	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	437	57.4	1	08/09/24 10:01	08/13/24 22:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	437	54.3	1	08/09/24 10:01	08/13/24 22:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	437	60.3	1	08/09/24 10:01	08/13/24 22:02	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	437	128	1	08/09/24 10:01	08/13/24 22:02	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	437	74.2	1	08/09/24 10:01	08/13/24 22:02	120-83-2	
Diethylphthalate	ND	ug/kg	437	154	1	08/09/24 10:01	08/13/24 22:02	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	437	133	1	08/09/24 10:01	08/13/24 22:02	105-67-9	
Dimethylphthalate	ND	ug/kg	437	135	1	08/09/24 10:01	08/13/24 22:02	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3490	3200	1	08/09/24 10:01	08/13/24 22:02	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1090	325	1	08/09/24 10:01	08/13/24 22:02	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1090	982	1	08/09/24 10:01	08/13/24 22:02	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	437	133	1	08/09/24 10:01	08/13/24 22:02	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	437	133	1	08/09/24 10:01	08/13/24 22:02	606-20-2	
Di-n-octylphthalate	ND	ug/kg	437	288	1	08/09/24 10:01	08/13/24 22:02	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	437	139	1	08/09/24 10:01	08/13/24 22:02	117-81-7	
Fluoranthene	ND	ug/kg	437	141	1	08/09/24 10:01	08/13/24 22:02	206-44-0	
Fluorene	ND	ug/kg	437	134	1	08/09/24 10:01	08/13/24 22:02	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	437	68.5	1	08/09/24 10:01	08/13/24 22:02	87-68-3	
Hexachlorobenzene	ND	ug/kg	437	126	1	08/09/24 10:01	08/13/24 22:02	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	437	211	1	08/09/24 10:01	08/13/24 22:02	77-47-4	
Hexachloroethane	ND	ug/kg	437	118	1	08/09/24 10:01	08/13/24 22:02	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	437	164	1	08/09/24 10:01	08/13/24 22:02	193-39-5	
Isophorone	ND	ug/kg	437	63.1	1	08/09/24 10:01	08/13/24 22:02	78-59-1	
1-Methylnaphthalene	ND	ug/kg	437	110	1	08/09/24 10:01	08/13/24 22:02	90-12-0	
2-Methylnaphthalene	ND	ug/kg	437	63.9	1	08/09/24 10:01	08/13/24 22:02	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	437	157	1	08/09/24 10:01	08/13/24 22:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	873	268	1	08/09/24 10:01	08/13/24 22:02		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-01-1027 **Lab ID: 30705771011** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1090	152	1	08/09/24 10:01	08/13/24 22:02	88-74-4	
3-Nitroaniline	ND	ug/kg	1090	285	1	08/09/24 10:01	08/13/24 22:02	99-09-2	
4-Nitroaniline	ND	ug/kg	1090	613	1	08/09/24 10:01	08/13/24 22:02	100-01-6	
Nitrobenzene	ND	ug/kg	437	62.7	1	08/09/24 10:01	08/13/24 22:02	98-95-3	
2-Nitrophenol	ND	ug/kg	437	81.8	1	08/09/24 10:01	08/13/24 22:02	88-75-5	
4-Nitrophenol	ND	ug/kg	437	147	1	08/09/24 10:01	08/13/24 22:02	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	437	74.9	1	08/09/24 10:01	08/13/24 22:02	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	437	76.9	1	08/09/24 10:01	08/13/24 22:02	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	437	98.5	1	08/09/24 10:01	08/13/24 22:02	86-30-6	
Pentachlorophenol	ND	ug/kg	1090	575	1	08/09/24 10:01	08/13/24 22:02	87-86-5	
Phenanthrene	ND	ug/kg	437	79.2	1	08/09/24 10:01	08/13/24 22:02	85-01-8	
Phenol	ND	ug/kg	437	129	1	08/09/24 10:01	08/13/24 22:02	108-95-2	
Pyrene	ND	ug/kg	437	160	1	08/09/24 10:01	08/13/24 22:02	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	437	118	1	08/09/24 10:01	08/13/24 22:02	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1090	129	1	08/09/24 10:01	08/13/24 22:02	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	437	114	1	08/09/24 10:01	08/13/24 22:02	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	84	%.	32-154		1	08/09/24 10:01	08/13/24 22:02	4165-60-0	
2-Fluorobiphenyl (S)	83	%.	50-144		1	08/09/24 10:01	08/13/24 22:02	321-60-8	
Terphenyl-d14 (S)	98	%.	57-146		1	08/09/24 10:01	08/13/24 22:02	1718-51-0	
Phenol-d6 (S)	89	%.	54-121		1	08/09/24 10:01	08/13/24 22:02	13127-88-3	
2-Fluorophenol (S)	88	%.	57-124		1	08/09/24 10:01	08/13/24 22:02	367-12-4	
2,4,6-Tribromophenol (S)	89	%.	44-127		1	08/09/24 10:01	08/13/24 22:02	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	50.1	33.7	1	08/06/24 13:11	08/06/24 19:28	67-64-1	
Benzene	ND	ug/kg	5.0	0.87	1	08/06/24 13:11	08/06/24 19:28	71-43-2	
Bromochloromethane	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 19:28	74-97-5	
Bromodichloromethane	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 19:28	75-27-4	
Bromoform	ND	ug/kg	5.0	2.0	1	08/06/24 13:11	08/06/24 19:28	75-25-2	R1
Bromomethane	ND	ug/kg	5.0	1.9	1	08/06/24 13:11	08/06/24 19:28	74-83-9	2c
TOTAL BTEX	ND	ug/kg	30.1	6.1	1	08/06/24 13:11	08/06/24 19:28		
2-Butanone (MEK)	ND	ug/kg	10.0	2.6	1	08/06/24 13:11	08/06/24 19:28	78-93-3	R1
Carbon disulfide	ND	ug/kg	5.0	1.4	1	08/06/24 13:11	08/06/24 19:28	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.0	1.7	1	08/06/24 13:11	08/06/24 19:28	56-23-5	
Chlorobenzene	ND	ug/kg	5.0	0.78	1	08/06/24 13:11	08/06/24 19:28	108-90-7	
Chloroethane	ND	ug/kg	5.0	2.1	1	08/06/24 13:11	08/06/24 19:28	75-00-3	
Chloroform	ND	ug/kg	5.0	1.5	1	08/06/24 13:11	08/06/24 19:28	67-66-3	R1
Chloromethane	ND	ug/kg	5.0	1.7	1	08/06/24 13:11	08/06/24 19:28	74-87-3	
Dibromochloromethane	ND	ug/kg	5.0	0.79	1	08/06/24 13:11	08/06/24 19:28	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.0	0.59	1	08/06/24 13:11	08/06/24 19:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.0	0.65	1	08/06/24 13:11	08/06/24 19:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.0	0.71	1	08/06/24 13:11	08/06/24 19:28	106-46-7	

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-01-1027 **Lab ID: 30705771011** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.0	1.3	1	08/06/24 13:11	08/06/24 19:28	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.0	1.3	1	08/06/24 13:11	08/06/24 19:28	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.0	2.4	1	08/06/24 13:11	08/06/24 19:28	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.0	1.9	1	08/06/24 13:11	08/06/24 19:28	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.0	1.2	1	08/06/24 13:11	08/06/24 19:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.0	1.3	1	08/06/24 13:11	08/06/24 19:28	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.0	0.72	1	08/06/24 13:11	08/06/24 19:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	0.50	1	08/06/24 13:11	08/06/24 19:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	1.0	1	08/06/24 13:11	08/06/24 19:28	10061-02-6	
Ethylbenzene	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 19:28	100-41-4	
2-Hexanone	ND	ug/kg	10.0	2.3	1	08/06/24 13:11	08/06/24 19:28	591-78-6	R1
Isopropylbenzene (Cumene)	ND	ug/kg	5.0	1.2	1	08/06/24 13:11	08/06/24 19:28	98-82-8	
Methylene Chloride	ND	ug/kg	5.0	4.2	1	08/06/24 13:11	08/06/24 19:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.0	1.1	1	08/06/24 13:11	08/06/24 19:28	108-10-1	R1
Methyl-tert-butyl ether	ND	ug/kg	5.0	0.67	1	08/06/24 13:11	08/06/24 19:28	1634-04-4	
Naphthalene	ND	ug/kg	5.0	4.0	1	08/06/24 13:11	08/06/24 19:28	91-20-3	R1
Styrene	ND	ug/kg	5.0	1.4	1	08/06/24 13:11	08/06/24 19:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	0.59	1	08/06/24 13:11	08/06/24 19:28	79-34-5	R1
Tetrachloroethene	ND	ug/kg	5.0	1.7	1	08/06/24 13:11	08/06/24 19:28	127-18-4	
Toluene	ND	ug/kg	5.0	0.99	1	08/06/24 13:11	08/06/24 19:28	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.0	2.0	1	08/06/24 13:11	08/06/24 19:28	120-82-1	R1
1,1,1-Trichloroethane	ND	ug/kg	5.0	1.5	1	08/06/24 13:11	08/06/24 19:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.0	0.99	1	08/06/24 13:11	08/06/24 19:28	79-00-5	R1
Trichloroethene	ND	ug/kg	5.0	1.5	1	08/06/24 13:11	08/06/24 19:28	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.0	2.4	1	08/06/24 13:11	08/06/24 19:28	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.0	2.0	1	08/06/24 13:11	08/06/24 19:28	108-67-8	
Vinyl chloride	ND	ug/kg	5.0	2.1	1	08/06/24 13:11	08/06/24 19:28	75-01-4	
Xylene (Total)	ND	ug/kg	15.0	6.8	1	08/06/24 13:11	08/06/24 19:28	1330-20-7	
m&p-Xylene	ND	ug/kg	10.0	5.8	1	08/06/24 13:11	08/06/24 19:28	179601-23-1	
o-Xylene	ND	ug/kg	5.0	1.1	1	08/06/24 13:11	08/06/24 19:28	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 19:28	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130		1	08/06/24 13:11	08/06/24 19:28	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1	08/06/24 13:11	08/06/24 19:28	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 19:28	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**24.2**	%	0.10	0.10	1		08/06/24 11:56		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-02-1028 **Lab ID: 30705771012** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**9.9**	mg/kg	6.9	0.48	1	08/05/24 11:01	08/06/24 14:54	7440-38-2	
Barium	**46.6**	mg/kg	6.9	0.51	1	08/05/24 11:01	08/06/24 14:54	7440-39-3	
Cadmium	ND	mg/kg	1.4	0.19	1	08/05/24 11:01	08/06/24 14:54	7440-43-9	
Chromium	**60.3**	mg/kg	6.9	0.87	1	08/05/24 11:01	08/06/24 14:54	7440-47-3	
Lead	**17.0**	mg/kg	6.9	0.71	1	08/05/24 11:01	08/06/24 14:54	7439-92-1	
Selenium	**1.9J**	mg/kg	6.9	1.4	1	08/05/24 11:01	08/06/24 14:54	7782-49-2	
Silver	ND	mg/kg	3.5	0.49	1	08/05/24 11:01	08/06/24 14:54	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.22**	mg/kg	0.028	0.026	1	08/06/24 12:11	08/08/24 10:49	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	9.3	2.5	1	08/12/24 10:36	08/14/24 13:24	83-32-9	
Acenaphthylene	ND	ug/kg	9.3	1.9	1	08/12/24 10:36	08/14/24 13:24	208-96-8	
Anthracene	ND	ug/kg	9.3	1.8	1	08/12/24 10:36	08/14/24 13:24	120-12-7	
Benzo(a)anthracene	ND	ug/kg	9.3	2.5	1	08/12/24 10:36	08/14/24 13:24	56-55-3	
Benzo(a)pyrene	ND	ug/kg	9.3	4.1	1	08/12/24 10:36	08/14/24 13:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	9.3	2.7	1	08/12/24 10:36	08/14/24 13:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	9.3	1.4	1	08/12/24 10:36	08/14/24 13:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	9.3	1.6	1	08/12/24 10:36	08/14/24 13:24	207-08-9	
Chrysene	ND	ug/kg	9.3	1.5	1	08/12/24 10:36	08/14/24 13:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	9.3	1.8	1	08/12/24 10:36	08/14/24 13:24	53-70-3	
Fluoranthene	ND	ug/kg	9.3	6.2	1	08/12/24 10:36	08/14/24 13:24	206-44-0	
Fluorene	ND	ug/kg	18.5	9.6	1	08/12/24 10:36	08/14/24 13:24	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	9.3	3.6	1	08/12/24 10:36	08/14/24 13:24	193-39-5	
Naphthalene	ND	ug/kg	9.3	4.0	1	08/12/24 10:36	08/14/24 13:24	91-20-3	
Phenanthrene	ND	ug/kg	18.5	5.6	1	08/12/24 10:36	08/14/24 13:24	85-01-8	
Pyrene	ND	ug/kg	9.3	8.2	1	08/12/24 10:36	08/14/24 13:24	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	83	%.	46-99		1	08/12/24 10:36	08/14/24 13:24	321-60-8	
Terphenyl-d14 (S)	91	%.	48-118		1	08/12/24 10:36	08/14/24 13:24	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	2700	401	1	08/09/24 10:01	08/13/24 23:08	83-32-9	P1
Acenaphthylene	ND	ug/kg	2700	812	1	08/09/24 10:01	08/13/24 23:08	208-96-8	P1
Anthracene	ND	ug/kg	2700	621	1	08/09/24 10:01	08/13/24 23:08	120-12-7	P1
Azobenzene	ND	ug/kg	2700	954	1	08/09/24 10:01	08/13/24 23:08	103-33-3	P1
Benzo(a)anthracene	ND	ug/kg	2700	468	1	08/09/24 10:01	08/13/24 23:08	56-55-3	P1
Benzo(a)pyrene	ND	ug/kg	2700	840	1	08/09/24 10:01	08/13/24 23:08	50-32-8	P1
Benzo(b)fluoranthene	ND	ug/kg	2700	821	1	08/09/24 10:01	08/13/24 23:08	205-99-2	P1
Benzo(g,h,i)perylene	ND	ug/kg	2700	938	1	08/09/24 10:01	08/13/24 23:08	191-24-2	P1

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-02-1028 **Lab ID: 30705771012** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	2700	1190	1	08/09/24 10:01	08/13/24 23:08	207-08-9	P1
Benzoic acid	ND	ug/kg	40500	13700	1	08/09/24 10:01	08/13/24 23:08	65-85-0	P1
Benzyl alcohol	ND	ug/kg	2700	2390	1	08/09/24 10:01	08/13/24 23:08	100-51-6	P1
4-Bromophenylphenyl ether	ND	ug/kg	2700	994	1	08/09/24 10:01	08/13/24 23:08	101-55-3	P1
Butylbenzylphthalate	ND	ug/kg	2700	760	1	08/09/24 10:01	08/13/24 23:08	85-68-7	P1
Carbazole	ND	ug/kg	2700	1060	1	08/09/24 10:01	08/13/24 23:08	86-74-8	P1
4-Chloro-3-methylphenol	ND	ug/kg	2700	435	1	08/09/24 10:01	08/13/24 23:08	59-50-7	P1
4-Chloroaniline	ND	ug/kg	2700	476	1	08/09/24 10:01	08/13/24 23:08	106-47-8	P1
bis(2-Chloroethoxy)methane	ND	ug/kg	2700	470	1	08/09/24 10:01	08/13/24 23:08	111-91-1	P1
bis(2-Chloroethyl) ether	ND	ug/kg	2700	494	1	08/09/24 10:01	08/13/24 23:08	111-44-4	P1
bis(2-Chloroisopropyl) ether	ND	ug/kg	2700	768	1	08/09/24 10:01	08/13/24 23:08	108-60-1	P1
2-Chloronaphthalene	ND	ug/kg	2700	772	1	08/09/24 10:01	08/13/24 23:08	91-58-7	P1
2-Chlorophenol	ND	ug/kg	2700	386	1	08/09/24 10:01	08/13/24 23:08	95-57-8	P1
4-Chlorophenylphenyl ether	ND	ug/kg	2700	782	1	08/09/24 10:01	08/13/24 23:08	7005-72-3	P1
Chrysene	ND	ug/kg	2700	401	1	08/09/24 10:01	08/13/24 23:08	218-01-9	P1
Dibenz(a,h)anthracene	ND	ug/kg	2700	1030	1	08/09/24 10:01	08/13/24 23:08	53-70-3	P1
Dibenzofuran	ND	ug/kg	2700	867	1	08/09/24 10:01	08/13/24 23:08	132-64-9	P1
1,2-Dichlorobenzene	ND	ug/kg	2700	355	1	08/09/24 10:01	08/13/24 23:08	95-50-1	P1
1,3-Dichlorobenzene	ND	ug/kg	2700	336	1	08/09/24 10:01	08/13/24 23:08	541-73-1	P1
1,4-Dichlorobenzene	ND	ug/kg	2700	373	1	08/09/24 10:01	08/13/24 23:08	106-46-7	P1
3,3'-Dichlorobenzidine	ND	ug/kg	2700	794	1	08/09/24 10:01	08/13/24 23:08	91-94-1	P1
2,4-Dichlorophenol	ND	ug/kg	2700	459	1	08/09/24 10:01	08/13/24 23:08	120-83-2	P1
Diethylphthalate	ND	ug/kg	2700	952	1	08/09/24 10:01	08/13/24 23:08	84-66-2	P1
2,4-Dimethylphenol	ND	ug/kg	2700	821	1	08/09/24 10:01	08/13/24 23:08	105-67-9	P1
Dimethylphthalate	ND	ug/kg	2700	834	1	08/09/24 10:01	08/13/24 23:08	131-11-3	P1
Di-n-butylphthalate	ND	ug/kg	21600	19800	1	08/09/24 10:01	08/13/24 23:08	84-74-2	P1
4,6-Dinitro-2-methylphenol	ND	ug/kg	6760	2010	1	08/09/24 10:01	08/13/24 23:08	534-52-1	P1
2,4-Dinitrophenol	ND	ug/kg	6760	6080	1	08/09/24 10:01	08/13/24 23:08	51-28-5	P1
2,4-Dinitrotoluene	ND	ug/kg	2700	821	1	08/09/24 10:01	08/13/24 23:08	121-14-2	P1
2,6-Dinitrotoluene	ND	ug/kg	2700	822	1	08/09/24 10:01	08/13/24 23:08	606-20-2	P1
Di-n-octylphthalate	ND	ug/kg	2700	1780	1	08/09/24 10:01	08/13/24 23:08	117-84-0	P1
bis(2-Ethylhexyl)phthalate	ND	ug/kg	2700	862	1	08/09/24 10:01	08/13/24 23:08	117-81-7	P1
Fluoranthene	ND	ug/kg	2700	870	1	08/09/24 10:01	08/13/24 23:08	206-44-0	P1
Fluorene	ND	ug/kg	2700	828	1	08/09/24 10:01	08/13/24 23:08	86-73-7	P1
Hexachloro-1,3-butadiene	ND	ug/kg	2700	424	1	08/09/24 10:01	08/13/24 23:08	87-68-3	P1
Hexachlorobenzene	ND	ug/kg	2700	777	1	08/09/24 10:01	08/13/24 23:08	118-74-1	P1
Hexachlorocyclopentadiene	ND	ug/kg	2700	1300	1	08/09/24 10:01	08/13/24 23:08	77-47-4	P1
Hexachloroethane	ND	ug/kg	2700	730	1	08/09/24 10:01	08/13/24 23:08	67-72-1	P1
Indeno(1,2,3-cd)pyrene	ND	ug/kg	2700	1020	1	08/09/24 10:01	08/13/24 23:08	193-39-5	P1
Isophorone	ND	ug/kg	2700	390	1	08/09/24 10:01	08/13/24 23:08	78-59-1	P1
1-Methylnaphthalene	ND	ug/kg	2700	679	1	08/09/24 10:01	08/13/24 23:08	90-12-0	P1
2-Methylnaphthalene	ND	ug/kg	2700	395	1	08/09/24 10:01	08/13/24 23:08	91-57-6	P1
2-Methylphenol(o-Cresol)	ND	ug/kg	2700	972	1	08/09/24 10:01	08/13/24 23:08	95-48-7	P1
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	5410	1660	1	08/09/24 10:01	08/13/24 23:08		P1

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-02-1028 **Lab ID: 30705771012** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	6760	939	1	08/09/24 10:01	08/13/24 23:08	88-74-4	P1
3-Nitroaniline	ND	ug/kg	6760	1760	1	08/09/24 10:01	08/13/24 23:08	99-09-2	P1
4-Nitroaniline	ND	ug/kg	6760	3790	1	08/09/24 10:01	08/13/24 23:08	100-01-6	P1
Nitrobenzene	ND	ug/kg	2700	388	1	08/09/24 10:01	08/13/24 23:08	98-95-3	P1
2-Nitrophenol	ND	ug/kg	2700	506	1	08/09/24 10:01	08/13/24 23:08	88-75-5	P1
4-Nitrophenol	ND	ug/kg	2700	909	1	08/09/24 10:01	08/13/24 23:08	100-02-7	P1
N-Nitrosodimethylamine	ND	ug/kg	2700	464	1	08/09/24 10:01	08/13/24 23:08	62-75-9	P1
N-Nitroso-di-n-propylamine	ND	ug/kg	2700	476	1	08/09/24 10:01	08/13/24 23:08	621-64-7	P1
N-Nitrosodiphenylamine	ND	ug/kg	2700	610	1	08/09/24 10:01	08/13/24 23:08	86-30-6	P1
Pentachlorophenol	ND	ug/kg	6760	3560	1	08/09/24 10:01	08/13/24 23:08	87-86-5	P1
Phenanthrene	ND	ug/kg	2700	490	1	08/09/24 10:01	08/13/24 23:08	85-01-8	P1
Phenol	ND	ug/kg	2700	801	1	08/09/24 10:01	08/13/24 23:08	108-95-2	P1
Pyrene	ND	ug/kg	2700	988	1	08/09/24 10:01	08/13/24 23:08	129-00-0	P1
1,2,4-Trichlorobenzene	ND	ug/kg	2700	731	1	08/09/24 10:01	08/13/24 23:08	120-82-1	P1
2,4,5-Trichlorophenol	ND	ug/kg	6760	800	1	08/09/24 10:01	08/13/24 23:08	95-95-4	P1
2,4,6-Trichlorophenol	ND	ug/kg	2700	706	1	08/09/24 10:01	08/13/24 23:08	88-06-2	P1
Surrogates									
Nitrobenzene-d5 (S)	82	%.	32-154		1	08/09/24 10:01	08/13/24 23:08	4165-60-0	
2-Fluorobiphenyl (S)	80	%.	50-144		1	08/09/24 10:01	08/13/24 23:08	321-60-8	
Terphenyl-d14 (S)	96	%.	57-146		1	08/09/24 10:01	08/13/24 23:08	1718-51-0	
Phenol-d6 (S)	87	%.	54-121		1	08/09/24 10:01	08/13/24 23:08	13127-88-3	
2-Fluorophenol (S)	86	%.	57-124		1	08/09/24 10:01	08/13/24 23:08	367-12-4	
2,4,6-Tribromophenol (S)	88	%.	44-127		1	08/09/24 10:01	08/13/24 23:08	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	55.9	37.6	1	08/06/24 13:11	08/06/24 20:51	67-64-1	
Benzene	ND	ug/kg	5.6	0.97	1	08/06/24 13:11	08/06/24 20:51	71-43-2	
Bromochloromethane	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 20:51	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 20:51	75-27-4	
Bromoform	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 20:51	75-25-2	
Bromomethane	ND	ug/kg	5.6	2.1	1	08/06/24 13:11	08/06/24 20:51	74-83-9	2c
TOTAL BTEX	ND	ug/kg	33.5	6.8	1	08/06/24 13:11	08/06/24 20:51		
2-Butanone (MEK)	ND	ug/kg	11.2	2.9	1	08/06/24 13:11	08/06/24 20:51	78-93-3	
Carbon disulfide	ND	ug/kg	5.6	1.6	1	08/06/24 13:11	08/06/24 20:51	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	1.9	1	08/06/24 13:11	08/06/24 20:51	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	0.87	1	08/06/24 13:11	08/06/24 20:51	108-90-7	
Chloroethane	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 20:51	75-00-3	
Chloroform	ND	ug/kg	5.6	1.7	1	08/06/24 13:11	08/06/24 20:51	67-66-3	
Chloromethane	ND	ug/kg	5.6	1.9	1	08/06/24 13:11	08/06/24 20:51	74-87-3	
Dibromochloromethane	ND	ug/kg	5.6	0.88	1	08/06/24 13:11	08/06/24 20:51	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.6	0.66	1	08/06/24 13:11	08/06/24 20:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	0.73	1	08/06/24 13:11	08/06/24 20:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	0.79	1	08/06/24 13:11	08/06/24 20:51	106-46-7	

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-12(7-8)-02-1028 **Lab ID: 30705771012** Collected: 08/01/24 15:30 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.6	1.4	1	08/06/24 13:11	08/06/24 20:51	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1.4	1	08/06/24 13:11	08/06/24 20:51	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.2	2.7	1	08/06/24 13:11	08/06/24 20:51	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.6	2.1	1	08/06/24 13:11	08/06/24 20:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1.3	1	08/06/24 13:11	08/06/24 20:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1.4	1	08/06/24 13:11	08/06/24 20:51	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	0.80	1	08/06/24 13:11	08/06/24 20:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	0.56	1	08/06/24 13:11	08/06/24 20:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 20:51	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 20:51	100-41-4	
2-Hexanone	ND	ug/kg	11.2	2.6	1	08/06/24 13:11	08/06/24 20:51	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1.3	1	08/06/24 13:11	08/06/24 20:51	98-82-8	
Methylene Chloride	ND	ug/kg	5.6	4.7	1	08/06/24 13:11	08/06/24 20:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.2	1.3	1	08/06/24 13:11	08/06/24 20:51	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	0.75	1	08/06/24 13:11	08/06/24 20:51	1634-04-4	
Naphthalene	ND	ug/kg	5.6	4.4	1	08/06/24 13:11	08/06/24 20:51	91-20-3	
Styrene	ND	ug/kg	5.6	1.6	1	08/06/24 13:11	08/06/24 20:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	0.66	1	08/06/24 13:11	08/06/24 20:51	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1.9	1	08/06/24 13:11	08/06/24 20:51	127-18-4	
Toluene	ND	ug/kg	5.6	1.1	1	08/06/24 13:11	08/06/24 20:51	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	2.2	1	08/06/24 13:11	08/06/24 20:51	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1.7	1	08/06/24 13:11	08/06/24 20:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1.1	1	08/06/24 13:11	08/06/24 20:51	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1.6	1	08/06/24 13:11	08/06/24 20:51	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	2.7	1	08/06/24 13:11	08/06/24 20:51	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 20:51	108-67-8	
Vinyl chloride	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 20:51	75-01-4	
Xylene (Total)	ND	ug/kg	16.8	7.6	1	08/06/24 13:11	08/06/24 20:51	1330-20-7	
m&p-Xylene	ND	ug/kg	11.2	6.4	1	08/06/24 13:11	08/06/24 20:51	179601-23-1	
o-Xylene	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 20:51	95-47-6	
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	08/06/24 13:11	08/06/24 20:51	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 20:51	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 20:51	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	08/06/24 13:11	08/06/24 20:51	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**28.7**	%	0.10	0.10	1		08/06/24 11:56		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-13(1-2)-01-1031 **Lab ID: 30705771013** Collected: 08/02/24 09:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**5.1J**	mg/kg	6.0	0.42	1	08/05/24 11:01	08/06/24 14:57	7440-38-2	
Barium	**23.1**	mg/kg	6.0	0.44	1	08/05/24 11:01	08/06/24 14:57	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/05/24 11:01	08/06/24 14:57	7440-43-9	
Chromium	**24.0**	mg/kg	6.0	0.76	1	08/05/24 11:01	08/06/24 14:57	7440-47-3	
Lead	**11.6**	mg/kg	6.0	0.62	1	08/05/24 11:01	08/06/24 14:57	7439-92-1	
Selenium	**1.3J**	mg/kg	6.0	1.2	1	08/05/24 11:01	08/06/24 14:57	7782-49-2	
Silver	ND	mg/kg	3.0	0.43	1	08/05/24 11:01	08/06/24 14:57	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.11**	mg/kg	0.025	0.024	1	08/06/24 12:11	08/08/24 10:51	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.9	2.1	1	08/12/24 10:36	08/14/24 13:43	83-32-9	
Acenaphthylene	ND	ug/kg	7.9	1.6	1	08/12/24 10:36	08/14/24 13:43	208-96-8	
Anthracene	ND	ug/kg	7.9	1.6	1	08/12/24 10:36	08/14/24 13:43	120-12-7	
Benzo(a)anthracene	ND	ug/kg	7.9	2.1	1	08/12/24 10:36	08/14/24 13:43	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.9	3.4	1	08/12/24 10:36	08/14/24 13:43	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	7.9	2.3	1	08/12/24 10:36	08/14/24 13:43	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	7.9	1.2	1	08/12/24 10:36	08/14/24 13:43	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	7.9	1.3	1	08/12/24 10:36	08/14/24 13:43	207-08-9	Ip
Chrysene	ND	ug/kg	7.9	1.2	1	08/12/24 10:36	08/14/24 13:43	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.9	1.5	1	08/12/24 10:36	08/14/24 13:43	53-70-3	
Fluoranthene	ND	ug/kg	7.9	5.3	1	08/12/24 10:36	08/14/24 13:43	206-44-0	
Fluorene	ND	ug/kg	15.7	8.1	1	08/12/24 10:36	08/14/24 13:43	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.9	3.0	1	08/12/24 10:36	08/14/24 13:43	193-39-5	
Naphthalene	ND	ug/kg	7.9	3.4	1	08/12/24 10:36	08/14/24 13:43	91-20-3	
Phenanthrene	ND	ug/kg	15.7	4.7	1	08/12/24 10:36	08/14/24 13:43	85-01-8	
Pyrene	ND	ug/kg	7.9	6.9	1	08/12/24 10:36	08/14/24 13:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%.	46-99		1	08/12/24 10:36	08/14/24 13:43	321-60-8	
Terphenyl-d14 (S)	79	%.	48-118		1	08/12/24 10:36	08/14/24 13:43	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	400	59.4	1	08/09/24 10:01	08/13/24 23:30	83-32-9	
Acenaphthylene	ND	ug/kg	400	120	1	08/09/24 10:01	08/13/24 23:30	208-96-8	
Anthracene	ND	ug/kg	400	91.9	1	08/09/24 10:01	08/13/24 23:30	120-12-7	
Azobenzene	ND	ug/kg	400	141	1	08/09/24 10:01	08/13/24 23:30	103-33-3	
Benzo(a)anthracene	ND	ug/kg	400	69.3	1	08/09/24 10:01	08/13/24 23:30	56-55-3	
Benzo(a)pyrene	ND	ug/kg	400	124	1	08/09/24 10:01	08/13/24 23:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	400	122	1	08/09/24 10:01	08/13/24 23:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	400	139	1	08/09/24 10:01	08/13/24 23:30	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-13(1-2)-01-1031 **Lab ID: 30705771013** Collected: 08/02/24 09:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	400	177	1	08/09/24 10:01	08/13/24 23:30	207-08-9	
Benzoic acid	ND	ug/kg	6000	2030	1	08/09/24 10:01	08/13/24 23:30	65-85-0	
Benzyl alcohol	ND	ug/kg	400	354	1	08/09/24 10:01	08/13/24 23:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	400	147	1	08/09/24 10:01	08/13/24 23:30	101-55-3	
Butylbenzylphthalate	ND	ug/kg	400	113	1	08/09/24 10:01	08/13/24 23:30	85-68-7	
Carbazole	ND	ug/kg	400	157	1	08/09/24 10:01	08/13/24 23:30	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	400	64.4	1	08/09/24 10:01	08/13/24 23:30	59-50-7	
4-Chloroaniline	ND	ug/kg	400	70.4	1	08/09/24 10:01	08/13/24 23:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	400	69.6	1	08/09/24 10:01	08/13/24 23:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	400	73.1	1	08/09/24 10:01	08/13/24 23:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	400	114	1	08/09/24 10:01	08/13/24 23:30	108-60-1	
2-Chloronaphthalene	ND	ug/kg	400	114	1	08/09/24 10:01	08/13/24 23:30	91-58-7	
2-Chlorophenol	ND	ug/kg	400	57.1	1	08/09/24 10:01	08/13/24 23:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	400	116	1	08/09/24 10:01	08/13/24 23:30	7005-72-3	
Chrysene	ND	ug/kg	400	59.4	1	08/09/24 10:01	08/13/24 23:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	400	152	1	08/09/24 10:01	08/13/24 23:30	53-70-3	
Dibenzofuran	ND	ug/kg	400	128	1	08/09/24 10:01	08/13/24 23:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	400	52.6	1	08/09/24 10:01	08/13/24 23:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	400	49.8	1	08/09/24 10:01	08/13/24 23:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	400	55.3	1	08/09/24 10:01	08/13/24 23:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	400	118	1	08/09/24 10:01	08/13/24 23:30	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	400	68.0	1	08/09/24 10:01	08/13/24 23:30	120-83-2	
Diethylphthalate	ND	ug/kg	400	141	1	08/09/24 10:01	08/13/24 23:30	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	400	122	1	08/09/24 10:01	08/13/24 23:30	105-67-9	
Dimethylphthalate	ND	ug/kg	400	123	1	08/09/24 10:01	08/13/24 23:30	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3200	2930	1	08/09/24 10:01	08/13/24 23:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1000	298	1	08/09/24 10:01	08/13/24 23:30	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1000	900	1	08/09/24 10:01	08/13/24 23:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	400	122	1	08/09/24 10:01	08/13/24 23:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	400	122	1	08/09/24 10:01	08/13/24 23:30	606-20-2	
Di-n-octylphthalate	ND	ug/kg	400	264	1	08/09/24 10:01	08/13/24 23:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	400	128	1	08/09/24 10:01	08/13/24 23:30	117-81-7	
Fluoranthene	ND	ug/kg	400	129	1	08/09/24 10:01	08/13/24 23:30	206-44-0	
Fluorene	ND	ug/kg	400	123	1	08/09/24 10:01	08/13/24 23:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	400	62.8	1	08/09/24 10:01	08/13/24 23:30	87-68-3	
Hexachlorobenzene	ND	ug/kg	400	115	1	08/09/24 10:01	08/13/24 23:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	400	193	1	08/09/24 10:01	08/13/24 23:30	77-47-4	
Hexachloroethane	ND	ug/kg	400	108	1	08/09/24 10:01	08/13/24 23:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	400	151	1	08/09/24 10:01	08/13/24 23:30	193-39-5	
Isophorone	ND	ug/kg	400	57.8	1	08/09/24 10:01	08/13/24 23:30	78-59-1	
1-Methylnaphthalene	ND	ug/kg	400	101	1	08/09/24 10:01	08/13/24 23:30	90-12-0	
2-Methylnaphthalene	ND	ug/kg	400	58.6	1	08/09/24 10:01	08/13/24 23:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	400	144	1	08/09/24 10:01	08/13/24 23:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	801	246	1	08/09/24 10:01	08/13/24 23:30		

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-13(1-2)-01-1031 **Lab ID: 30705771013** Collected: 08/02/24 09:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1000	139	1	08/09/24 10:01	08/13/24 23:30	88-74-4	
3-Nitroaniline	ND	ug/kg	1000	261	1	08/09/24 10:01	08/13/24 23:30	99-09-2	
4-Nitroaniline	ND	ug/kg	1000	562	1	08/09/24 10:01	08/13/24 23:30	100-01-6	
Nitrobenzene	ND	ug/kg	400	57.5	1	08/09/24 10:01	08/13/24 23:30	98-95-3	
2-Nitrophenol	ND	ug/kg	400	75.0	1	08/09/24 10:01	08/13/24 23:30	88-75-5	
4-Nitrophenol	ND	ug/kg	400	135	1	08/09/24 10:01	08/13/24 23:30	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	400	68.6	1	08/09/24 10:01	08/13/24 23:30	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	400	70.4	1	08/09/24 10:01	08/13/24 23:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	400	90.3	1	08/09/24 10:01	08/13/24 23:30	86-30-6	
Pentachlorophenol	ND	ug/kg	1000	527	1	08/09/24 10:01	08/13/24 23:30	87-86-5	
Phenanthrene	ND	ug/kg	400	72.6	1	08/09/24 10:01	08/13/24 23:30	85-01-8	
Phenol	ND	ug/kg	400	119	1	08/09/24 10:01	08/13/24 23:30	108-95-2	
Pyrene	ND	ug/kg	400	146	1	08/09/24 10:01	08/13/24 23:30	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	400	108	1	08/09/24 10:01	08/13/24 23:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1000	118	1	08/09/24 10:01	08/13/24 23:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	400	105	1	08/09/24 10:01	08/13/24 23:30	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	32-154		1	08/09/24 10:01	08/13/24 23:30	4165-60-0	
2-Fluorobiphenyl (S)	79	%.	50-144		1	08/09/24 10:01	08/13/24 23:30	321-60-8	
Terphenyl-d14 (S)	94	%.	57-146		1	08/09/24 10:01	08/13/24 23:30	1718-51-0	
Phenol-d6 (S)	87	%.	54-121		1	08/09/24 10:01	08/13/24 23:30	13127-88-3	
2-Fluorophenol (S)	85	%.	57-124		1	08/09/24 10:01	08/13/24 23:30	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	44-127		1	08/09/24 10:01	08/13/24 23:30	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	37.2	25.0	1	08/06/24 13:11	08/06/24 21:19	67-64-1	
Benzene	ND	ug/kg	3.7	0.65	1	08/06/24 13:11	08/06/24 21:19	71-43-2	
Bromochloromethane	ND	ug/kg	3.7	0.81	1	08/06/24 13:11	08/06/24 21:19	74-97-5	
Bromodichloromethane	ND	ug/kg	3.7	0.81	1	08/06/24 13:11	08/06/24 21:19	75-27-4	
Bromoform	ND	ug/kg	3.7	1.5	1	08/06/24 13:11	08/06/24 21:19	75-25-2	
Bromomethane	ND	ug/kg	3.7	1.4	1	08/06/24 13:11	08/06/24 21:19	74-83-9	2c
TOTAL BTEX	ND	ug/kg	22.3	4.6	1	08/06/24 13:11	08/06/24 21:19		
2-Butanone (MEK)	ND	ug/kg	7.4	1.9	1	08/06/24 13:11	08/06/24 21:19	78-93-3	
Carbon disulfide	ND	ug/kg	3.7	1.1	1	08/06/24 13:11	08/06/24 21:19	75-15-0	
Carbon tetrachloride	ND	ug/kg	3.7	1.3	1	08/06/24 13:11	08/06/24 21:19	56-23-5	
Chlorobenzene	ND	ug/kg	3.7	0.58	1	08/06/24 13:11	08/06/24 21:19	108-90-7	
Chloroethane	ND	ug/kg	3.7	1.6	1	08/06/24 13:11	08/06/24 21:19	75-00-3	
Chloroform	ND	ug/kg	3.7	1.1	1	08/06/24 13:11	08/06/24 21:19	67-66-3	
Chloromethane	ND	ug/kg	3.7	1.3	1	08/06/24 13:11	08/06/24 21:19	74-87-3	
Dibromochloromethane	ND	ug/kg	3.7	0.59	1	08/06/24 13:11	08/06/24 21:19	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	3.7	0.44	1	08/06/24 13:11	08/06/24 21:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	3.7	0.48	1	08/06/24 13:11	08/06/24 21:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	3.7	0.53	1	08/06/24 13:11	08/06/24 21:19	106-46-7	

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-13(1-2)-01-1031 **Lab ID: 30705771013** Collected: 08/02/24 09:40 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	3.7	0.94	1	08/06/24 13:11	08/06/24 21:19	75-34-3	
1,2-Dichloroethane	ND	ug/kg	3.7	0.96	1	08/06/24 13:11	08/06/24 21:19	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	7.4	1.8	1	08/06/24 13:11	08/06/24 21:19	540-59-0	
1,1-Dichloroethene	ND	ug/kg	3.7	1.4	1	08/06/24 13:11	08/06/24 21:19	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	3.7	0.86	1	08/06/24 13:11	08/06/24 21:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	3.7	0.94	1	08/06/24 13:11	08/06/24 21:19	156-60-5	
1,2-Dichloropropane	ND	ug/kg	3.7	0.54	1	08/06/24 13:11	08/06/24 21:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	3.7	0.37	1	08/06/24 13:11	08/06/24 21:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	3.7	0.77	1	08/06/24 13:11	08/06/24 21:19	10061-02-6	
Ethylbenzene	ND	ug/kg	3.7	0.80	1	08/06/24 13:11	08/06/24 21:19	100-41-4	
2-Hexanone	ND	ug/kg	7.4	1.7	1	08/06/24 13:11	08/06/24 21:19	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	3.7	0.86	1	08/06/24 13:11	08/06/24 21:19	98-82-8	
Methylene Chloride	ND	ug/kg	3.7	3.1	1	08/06/24 13:11	08/06/24 21:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	7.4	0.83	1	08/06/24 13:11	08/06/24 21:19	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	3.7	0.50	1	08/06/24 13:11	08/06/24 21:19	1634-04-4	
Naphthalene	ND	ug/kg	3.7	3.0	1	08/06/24 13:11	08/06/24 21:19	91-20-3	
Styrene	ND	ug/kg	3.7	1.1	1	08/06/24 13:11	08/06/24 21:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	3.7	0.44	1	08/06/24 13:11	08/06/24 21:19	79-34-5	
Tetrachloroethene	ND	ug/kg	3.7	1.3	1	08/06/24 13:11	08/06/24 21:19	127-18-4	
Toluene	ND	ug/kg	3.7	0.74	1	08/06/24 13:11	08/06/24 21:19	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	3.7	1.5	1	08/06/24 13:11	08/06/24 21:19	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	3.7	1.1	1	08/06/24 13:11	08/06/24 21:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	3.7	0.74	1	08/06/24 13:11	08/06/24 21:19	79-00-5	
Trichloroethene	ND	ug/kg	3.7	1.1	1	08/06/24 13:11	08/06/24 21:19	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	3.7	1.8	1	08/06/24 13:11	08/06/24 21:19	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	3.7	1.5	1	08/06/24 13:11	08/06/24 21:19	108-67-8	
Vinyl chloride	ND	ug/kg	3.7	1.6	1	08/06/24 13:11	08/06/24 21:19	75-01-4	
Xylene (Total)	ND	ug/kg	11.2	5.1	1	08/06/24 13:11	08/06/24 21:19	1330-20-7	
m&p-Xylene	ND	ug/kg	7.4	4.3	1	08/06/24 13:11	08/06/24 21:19	179601-23-1	
o-Xylene	ND	ug/kg	3.7	0.80	1	08/06/24 13:11	08/06/24 21:19	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 21:19	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	08/06/24 13:11	08/06/24 21:19	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1	08/06/24 13:11	08/06/24 21:19	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	08/06/24 13:11	08/06/24 21:19	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**17.8**	%	0.10	0.10	1		08/06/24 11:56		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-13(7-8)-01-1032 **Lab ID: 30705771014** Collected: 08/02/24 09:45 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**6.1J**	mg/kg	6.5	0.45	1	08/05/24 11:01	08/06/24 15:04	7440-38-2	
Barium	**29.6**	mg/kg	6.5	0.47	1	08/05/24 11:01	08/06/24 15:04	7440-39-3	
Cadmium	ND	mg/kg	1.3	0.18	1	08/05/24 11:01	08/06/24 15:04	7440-43-9	
Chromium	**21.8**	mg/kg	6.5	0.81	1	08/05/24 11:01	08/06/24 15:04	7440-47-3	
Lead	**17.1**	mg/kg	6.5	0.66	1	08/05/24 11:01	08/06/24 15:04	7439-92-1	
Selenium	**1.3J**	mg/kg	6.5	1.3	1	08/05/24 11:01	08/06/24 15:04	7782-49-2	
Silver	ND	mg/kg	3.2	0.46	1	08/05/24 11:01	08/06/24 15:04	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.21**	mg/kg	0.025	0.024	1	08/06/24 12:11	08/08/24 10:54	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.6	2.3	1	08/12/24 10:36	08/14/24 14:03	83-32-9	
Acenaphthylene	ND	ug/kg	8.6	1.8	1	08/12/24 10:36	08/14/24 14:03	208-96-8	
Anthracene	ND	ug/kg	8.6	1.7	1	08/12/24 10:36	08/14/24 14:03	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.6	2.3	1	08/12/24 10:36	08/14/24 14:03	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.6	3.7	1	08/12/24 10:36	08/14/24 14:03	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.6	2.4	1	08/12/24 10:36	08/14/24 14:03	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	8.6	1.3	1	08/12/24 10:36	08/14/24 14:03	191-24-2	
Benzo(k)fluoranthene	**2.1J**	ug/kg	8.6	1.4	1	08/12/24 10:36	08/14/24 14:03	207-08-9	Ip
Chrysene	ND	ug/kg	8.6	1.3	1	08/12/24 10:36	08/14/24 14:03	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.6	1.7	1	08/12/24 10:36	08/14/24 14:03	53-70-3	
Fluoranthene	ND	ug/kg	8.6	5.7	1	08/12/24 10:36	08/14/24 14:03	206-44-0	
Fluorene	ND	ug/kg	17.0	8.8	1	08/12/24 10:36	08/14/24 14:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.6	3.3	1	08/12/24 10:36	08/14/24 14:03	193-39-5	
Naphthalene	ND	ug/kg	8.6	3.6	1	08/12/24 10:36	08/14/24 14:03	91-20-3	
Phenanthrene	**5.9J**	ug/kg	17.0	5.1	1	08/12/24 10:36	08/14/24 14:03	85-01-8	
Pyrene	ND	ug/kg	8.6	7.5	1	08/12/24 10:36	08/14/24 14:03	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%.	46-99		1	08/12/24 10:36	08/14/24 14:03	321-60-8	
Terphenyl-d14 (S)	79	%.	48-118		1	08/12/24 10:36	08/14/24 14:03	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	429	63.7	1	08/09/24 10:01	08/13/24 23:52	83-32-9	
Acenaphthylene	ND	ug/kg	429	129	1	08/09/24 10:01	08/13/24 23:52	208-96-8	
Anthracene	ND	ug/kg	429	98.6	1	08/09/24 10:01	08/13/24 23:52	120-12-7	
Azobenzene	ND	ug/kg	429	151	1	08/09/24 10:01	08/13/24 23:52	103-33-3	
Benzo(a)anthracene	ND	ug/kg	429	74.3	1	08/09/24 10:01	08/13/24 23:52	56-55-3	
Benzo(a)pyrene	ND	ug/kg	429	133	1	08/09/24 10:01	08/13/24 23:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	429	130	1	08/09/24 10:01	08/13/24 23:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	429	149	1	08/09/24 10:01	08/13/24 23:52	191-24-2	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-13(7-8)-01-1032 **Lab ID: 30705771014** Collected: 08/02/24 09:45 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	429	190	1	08/09/24 10:01	08/13/24 23:52	207-08-9	
Benzoic acid	ND	ug/kg	6440	2170	1	08/09/24 10:01	08/13/24 23:52	65-85-0	
Benzyl alcohol	ND	ug/kg	429	379	1	08/09/24 10:01	08/13/24 23:52	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	429	158	1	08/09/24 10:01	08/13/24 23:52	101-55-3	
Butylbenzylphthalate	ND	ug/kg	429	121	1	08/09/24 10:01	08/13/24 23:52	85-68-7	
Carbazole	ND	ug/kg	429	169	1	08/09/24 10:01	08/13/24 23:52	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	429	69.1	1	08/09/24 10:01	08/13/24 23:52	59-50-7	
4-Chloroaniline	ND	ug/kg	429	75.5	1	08/09/24 10:01	08/13/24 23:52	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	429	74.6	1	08/09/24 10:01	08/13/24 23:52	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	429	78.3	1	08/09/24 10:01	08/13/24 23:52	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	429	122	1	08/09/24 10:01	08/13/24 23:52	108-60-1	
2-Chloronaphthalene	ND	ug/kg	429	123	1	08/09/24 10:01	08/13/24 23:52	91-58-7	
2-Chlorophenol	ND	ug/kg	429	61.2	1	08/09/24 10:01	08/13/24 23:52	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	429	124	1	08/09/24 10:01	08/13/24 23:52	7005-72-3	
Chrysene	ND	ug/kg	429	63.6	1	08/09/24 10:01	08/13/24 23:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	429	163	1	08/09/24 10:01	08/13/24 23:52	53-70-3	
Dibenzofuran	ND	ug/kg	429	138	1	08/09/24 10:01	08/13/24 23:52	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	429	56.4	1	08/09/24 10:01	08/13/24 23:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	429	53.4	1	08/09/24 10:01	08/13/24 23:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	429	59.3	1	08/09/24 10:01	08/13/24 23:52	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	429	126	1	08/09/24 10:01	08/13/24 23:52	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	429	72.9	1	08/09/24 10:01	08/13/24 23:52	120-83-2	
Diethylphthalate	ND	ug/kg	429	151	1	08/09/24 10:01	08/13/24 23:52	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	429	130	1	08/09/24 10:01	08/13/24 23:52	105-67-9	
Dimethylphthalate	ND	ug/kg	429	132	1	08/09/24 10:01	08/13/24 23:52	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3430	3140	1	08/09/24 10:01	08/13/24 23:52	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1070	320	1	08/09/24 10:01	08/13/24 23:52	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1070	965	1	08/09/24 10:01	08/13/24 23:52	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	429	130	1	08/09/24 10:01	08/13/24 23:52	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	429	131	1	08/09/24 10:01	08/13/24 23:52	606-20-2	
Di-n-octylphthalate	ND	ug/kg	429	282	1	08/09/24 10:01	08/13/24 23:52	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	429	137	1	08/09/24 10:01	08/13/24 23:52	117-81-7	
Fluoranthene	ND	ug/kg	429	138	1	08/09/24 10:01	08/13/24 23:52	206-44-0	
Fluorene	ND	ug/kg	429	131	1	08/09/24 10:01	08/13/24 23:52	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	429	67.3	1	08/09/24 10:01	08/13/24 23:52	87-68-3	
Hexachlorobenzene	ND	ug/kg	429	123	1	08/09/24 10:01	08/13/24 23:52	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	429	207	1	08/09/24 10:01	08/13/24 23:52	77-47-4	
Hexachloroethane	ND	ug/kg	429	116	1	08/09/24 10:01	08/13/24 23:52	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	429	161	1	08/09/24 10:01	08/13/24 23:52	193-39-5	
Isophorone	ND	ug/kg	429	61.9	1	08/09/24 10:01	08/13/24 23:52	78-59-1	
1-Methylnaphthalene	ND	ug/kg	429	108	1	08/09/24 10:01	08/13/24 23:52	90-12-0	
2-Methylnaphthalene	ND	ug/kg	429	62.8	1	08/09/24 10:01	08/13/24 23:52	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	429	154	1	08/09/24 10:01	08/13/24 23:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	858	263	1	08/09/24 10:01	08/13/24 23:52		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-13(7-8)-01-1032 **Lab ID: 30705771014** Collected: 08/02/24 09:45 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1070	149	1	08/09/24 10:01	08/13/24 23:52	88-74-4	
3-Nitroaniline	ND	ug/kg	1070	280	1	08/09/24 10:01	08/13/24 23:52	99-09-2	
4-Nitroaniline	ND	ug/kg	1070	602	1	08/09/24 10:01	08/13/24 23:52	100-01-6	
Nitrobenzene	ND	ug/kg	429	61.6	1	08/09/24 10:01	08/13/24 23:52	98-95-3	
2-Nitrophenol	ND	ug/kg	429	80.4	1	08/09/24 10:01	08/13/24 23:52	88-75-5	
4-Nitrophenol	ND	ug/kg	429	144	1	08/09/24 10:01	08/13/24 23:52	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	429	73.6	1	08/09/24 10:01	08/13/24 23:52	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	429	75.5	1	08/09/24 10:01	08/13/24 23:52	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	429	96.8	1	08/09/24 10:01	08/13/24 23:52	86-30-6	
Pentachlorophenol	ND	ug/kg	1070	565	1	08/09/24 10:01	08/13/24 23:52	87-86-5	
Phenanthrene	ND	ug/kg	429	77.8	1	08/09/24 10:01	08/13/24 23:52	85-01-8	
Phenol	ND	ug/kg	429	127	1	08/09/24 10:01	08/13/24 23:52	108-95-2	
Pyrene	ND	ug/kg	429	157	1	08/09/24 10:01	08/13/24 23:52	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	429	116	1	08/09/24 10:01	08/13/24 23:52	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1070	127	1	08/09/24 10:01	08/13/24 23:52	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	429	112	1	08/09/24 10:01	08/13/24 23:52	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	76	%.	32-154		1	08/09/24 10:01	08/13/24 23:52	4165-60-0	
2-Fluorobiphenyl (S)	75	%.	50-144		1	08/09/24 10:01	08/13/24 23:52	321-60-8	
Terphenyl-d14 (S)	96	%.	57-146		1	08/09/24 10:01	08/13/24 23:52	1718-51-0	
Phenol-d6 (S)	81	%.	54-121		1	08/09/24 10:01	08/13/24 23:52	13127-88-3	
2-Fluorophenol (S)	80	%.	57-124		1	08/09/24 10:01	08/13/24 23:52	367-12-4	
2,4,6-Tribromophenol (S)	81	%.	44-127		1	08/09/24 10:01	08/13/24 23:52	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	51.1	34.4	1	08/06/24 13:11	08/06/24 21:47	67-64-1	
Benzene	ND	ug/kg	5.1	0.89	1	08/06/24 13:11	08/06/24 21:47	71-43-2	
Bromochloromethane	ND	ug/kg	5.1	1.1	1	08/06/24 13:11	08/06/24 21:47	74-97-5	
Bromodichloromethane	ND	ug/kg	5.1	1.1	1	08/06/24 13:11	08/06/24 21:47	75-27-4	
Bromoform	ND	ug/kg	5.1	2.1	1	08/06/24 13:11	08/06/24 21:47	75-25-2	
Bromomethane	ND	ug/kg	5.1	1.9	1	08/06/24 13:11	08/06/24 21:47	74-83-9	2c
TOTAL BTEX	ND	ug/kg	30.7	6.3	1	08/06/24 13:11	08/06/24 21:47		
2-Butanone (MEK)	ND	ug/kg	10.2	2.7	1	08/06/24 13:11	08/06/24 21:47	78-93-3	
Carbon disulfide	ND	ug/kg	5.1	1.5	1	08/06/24 13:11	08/06/24 21:47	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.1	1.8	1	08/06/24 13:11	08/06/24 21:47	56-23-5	
Chlorobenzene	ND	ug/kg	5.1	0.80	1	08/06/24 13:11	08/06/24 21:47	108-90-7	
Chloroethane	ND	ug/kg	5.1	2.1	1	08/06/24 13:11	08/06/24 21:47	75-00-3	
Chloroform	ND	ug/kg	5.1	1.5	1	08/06/24 13:11	08/06/24 21:47	67-66-3	
Chloromethane	ND	ug/kg	5.1	1.7	1	08/06/24 13:11	08/06/24 21:47	74-87-3	
Dibromochloromethane	ND	ug/kg	5.1	0.81	1	08/06/24 13:11	08/06/24 21:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.1	0.60	1	08/06/24 13:11	08/06/24 21:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.1	0.66	1	08/06/24 13:11	08/06/24 21:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.1	0.73	1	08/06/24 13:11	08/06/24 21:47	106-46-7	

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-13(7-8)-01-1032 **Lab ID: 30705771014** Collected: 08/02/24 09:45 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.1	1.3	1	08/06/24 13:11	08/06/24 21:47	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.1	1.3	1	08/06/24 13:11	08/06/24 21:47	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	10.2	2.5	1	08/06/24 13:11	08/06/24 21:47	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.1	1.9	1	08/06/24 13:11	08/06/24 21:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.1	1.2	1	08/06/24 13:11	08/06/24 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.1	1.3	1	08/06/24 13:11	08/06/24 21:47	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.1	0.74	1	08/06/24 13:11	08/06/24 21:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.1	0.51	1	08/06/24 13:11	08/06/24 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.1	1.1	1	08/06/24 13:11	08/06/24 21:47	10061-02-6	
Ethylbenzene	ND	ug/kg	5.1	1.1	1	08/06/24 13:11	08/06/24 21:47	100-41-4	
2-Hexanone	ND	ug/kg	10.2	2.4	1	08/06/24 13:11	08/06/24 21:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.1	1.2	1	08/06/24 13:11	08/06/24 21:47	98-82-8	
Methylene Chloride	ND	ug/kg	5.1	4.3	1	08/06/24 13:11	08/06/24 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	10.2	1.1	1	08/06/24 13:11	08/06/24 21:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.1	0.68	1	08/06/24 13:11	08/06/24 21:47	1634-04-4	
Naphthalene	ND	ug/kg	5.1	4.1	1	08/06/24 13:11	08/06/24 21:47	91-20-3	
Styrene	ND	ug/kg	5.1	1.5	1	08/06/24 13:11	08/06/24 21:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.1	0.60	1	08/06/24 13:11	08/06/24 21:47	79-34-5	
Tetrachloroethene	ND	ug/kg	5.1	1.8	1	08/06/24 13:11	08/06/24 21:47	127-18-4	
Toluene	ND	ug/kg	5.1	1.0	1	08/06/24 13:11	08/06/24 21:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.1	2.0	1	08/06/24 13:11	08/06/24 21:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.1	1.5	1	08/06/24 13:11	08/06/24 21:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.1	1.0	1	08/06/24 13:11	08/06/24 21:47	79-00-5	
Trichloroethene	ND	ug/kg	5.1	1.5	1	08/06/24 13:11	08/06/24 21:47	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.1	2.5	1	08/06/24 13:11	08/06/24 21:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.1	2.1	1	08/06/24 13:11	08/06/24 21:47	108-67-8	
Vinyl chloride	ND	ug/kg	5.1	2.1	1	08/06/24 13:11	08/06/24 21:47	75-01-4	
Xylene (Total)	ND	ug/kg	15.3	7.0	1	08/06/24 13:11	08/06/24 21:47	1330-20-7	
m&p-Xylene	ND	ug/kg	10.2	5.9	1	08/06/24 13:11	08/06/24 21:47	179601-23-1	
o-Xylene	ND	ug/kg	5.1	1.1	1	08/06/24 13:11	08/06/24 21:47	95-47-6	
Surrogates									
Toluene-d8 (S)	95	%.	70-130		1	08/06/24 13:11	08/06/24 21:47	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 21:47	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1	08/06/24 13:11	08/06/24 21:47	17060-07-0	
Dibromofluoromethane (S)	94	%.	70-130		1	08/06/24 13:11	08/06/24 21:47	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**23.1**	%	0.10	0.10	1		08/06/24 11:56		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-14(1-2)-01-1033 **Lab ID: 30705771015** Collected: 08/02/24 11:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**11.1**	mg/kg	6.1	0.42	1	08/05/24 11:01	08/06/24 15:06	7440-38-2	
Barium	**38.6**	mg/kg	6.1	0.44	1	08/05/24 11:01	08/06/24 15:06	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/05/24 11:01	08/06/24 15:06	7440-43-9	
Chromium	**50.7**	mg/kg	6.1	0.77	1	08/05/24 11:01	08/06/24 15:06	7440-47-3	
Lead	**17.5**	mg/kg	6.1	0.63	1	08/05/24 11:01	08/06/24 15:06	7439-92-1	
Selenium	**1.3J**	mg/kg	6.1	1.2	1	08/05/24 11:01	08/06/24 15:06	7782-49-2	
Silver	ND	mg/kg	3.0	0.43	1	08/05/24 11:01	08/06/24 15:06	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.16**	mg/kg	0.025	0.023	1	08/06/24 12:11	08/08/24 11:01	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.0	2.1	1	08/12/24 10:36	08/14/24 14:23	83-32-9	
Acenaphthylene	ND	ug/kg	8.0	1.6	1	08/12/24 10:36	08/14/24 14:23	208-96-8	
Anthracene	ND	ug/kg	8.0	1.6	1	08/12/24 10:36	08/14/24 14:23	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.0	2.1	1	08/12/24 10:36	08/14/24 14:23	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.0	3.5	1	08/12/24 10:36	08/14/24 14:23	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.0	2.3	1	08/12/24 10:36	08/14/24 14:23	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	8.0	1.2	1	08/12/24 10:36	08/14/24 14:23	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.0	1.3	1	08/12/24 10:36	08/14/24 14:23	207-08-9	Ip
Chrysene	ND	ug/kg	8.0	1.3	1	08/12/24 10:36	08/14/24 14:23	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.0	1.6	1	08/12/24 10:36	08/14/24 14:23	53-70-3	
Fluoranthene	ND	ug/kg	8.0	5.4	1	08/12/24 10:36	08/14/24 14:23	206-44-0	
Fluorene	ND	ug/kg	16.0	8.2	1	08/12/24 10:36	08/14/24 14:23	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.0	3.1	1	08/12/24 10:36	08/14/24 14:23	193-39-5	
Naphthalene	ND	ug/kg	8.0	3.4	1	08/12/24 10:36	08/14/24 14:23	91-20-3	
Phenanthrene	ND	ug/kg	16.0	4.8	1	08/12/24 10:36	08/14/24 14:23	85-01-8	
Pyrene	ND	ug/kg	8.0	7.0	1	08/12/24 10:36	08/14/24 14:23	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	51	%.	46-99		1	08/12/24 10:36	08/14/24 14:23	321-60-8	
Terphenyl-d14 (S)	74	%.	48-118		1	08/12/24 10:36	08/14/24 14:23	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	407	60.5	1	08/09/24 10:01	08/14/24 00:13	83-32-9	
Acenaphthylene	ND	ug/kg	407	122	1	08/09/24 10:01	08/14/24 00:13	208-96-8	
Anthracene	ND	ug/kg	407	93.6	1	08/09/24 10:01	08/14/24 00:13	120-12-7	
Azobenzene	ND	ug/kg	407	144	1	08/09/24 10:01	08/14/24 00:13	103-33-3	
Benzo(a)anthracene	ND	ug/kg	407	70.5	1	08/09/24 10:01	08/14/24 00:13	56-55-3	
Benzo(a)pyrene	ND	ug/kg	407	127	1	08/09/24 10:01	08/14/24 00:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	407	124	1	08/09/24 10:01	08/14/24 00:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	407	141	1	08/09/24 10:01	08/14/24 00:13	191-24-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-14(1-2)-01-1033 **Lab ID: 30705771015** Collected: 08/02/24 11:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	407	180	1	08/09/24 10:01	08/14/24 00:13	207-08-9	
Benzoic acid	ND	ug/kg	6110	2060	1	08/09/24 10:01	08/14/24 00:13	65-85-0	
Benzyl alcohol	ND	ug/kg	407	360	1	08/09/24 10:01	08/14/24 00:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	407	150	1	08/09/24 10:01	08/14/24 00:13	101-55-3	
Butylbenzylphthalate	ND	ug/kg	407	114	1	08/09/24 10:01	08/14/24 00:13	85-68-7	
Carbazole	ND	ug/kg	407	160	1	08/09/24 10:01	08/14/24 00:13	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	407	65.6	1	08/09/24 10:01	08/14/24 00:13	59-50-7	
4-Chloroaniline	ND	ug/kg	407	71.7	1	08/09/24 10:01	08/14/24 00:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	407	70.8	1	08/09/24 10:01	08/14/24 00:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	407	74.4	1	08/09/24 10:01	08/14/24 00:13	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	407	116	1	08/09/24 10:01	08/14/24 00:13	108-60-1	
2-Chloronaphthalene	ND	ug/kg	407	116	1	08/09/24 10:01	08/14/24 00:13	91-58-7	
2-Chlorophenol	ND	ug/kg	407	58.1	1	08/09/24 10:01	08/14/24 00:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	407	118	1	08/09/24 10:01	08/14/24 00:13	7005-72-3	
Chrysene	ND	ug/kg	407	60.4	1	08/09/24 10:01	08/14/24 00:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	407	155	1	08/09/24 10:01	08/14/24 00:13	53-70-3	
Dibenzofuran	ND	ug/kg	407	131	1	08/09/24 10:01	08/14/24 00:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	407	53.5	1	08/09/24 10:01	08/14/24 00:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	407	50.7	1	08/09/24 10:01	08/14/24 00:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	407	56.3	1	08/09/24 10:01	08/14/24 00:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	407	120	1	08/09/24 10:01	08/14/24 00:13	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	407	69.2	1	08/09/24 10:01	08/14/24 00:13	120-83-2	
Diethylphthalate	ND	ug/kg	407	143	1	08/09/24 10:01	08/14/24 00:13	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	407	124	1	08/09/24 10:01	08/14/24 00:13	105-67-9	
Dimethylphthalate	ND	ug/kg	407	126	1	08/09/24 10:01	08/14/24 00:13	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3260	2980	1	08/09/24 10:01	08/14/24 00:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1020	303	1	08/09/24 10:01	08/14/24 00:13	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1020	916	1	08/09/24 10:01	08/14/24 00:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	407	124	1	08/09/24 10:01	08/14/24 00:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	407	124	1	08/09/24 10:01	08/14/24 00:13	606-20-2	
Di-n-octylphthalate	ND	ug/kg	407	268	1	08/09/24 10:01	08/14/24 00:13	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	407	130	1	08/09/24 10:01	08/14/24 00:13	117-81-7	
Fluoranthene	ND	ug/kg	407	131	1	08/09/24 10:01	08/14/24 00:13	206-44-0	
Fluorene	ND	ug/kg	407	125	1	08/09/24 10:01	08/14/24 00:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	407	63.9	1	08/09/24 10:01	08/14/24 00:13	87-68-3	
Hexachlorobenzene	ND	ug/kg	407	117	1	08/09/24 10:01	08/14/24 00:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	407	196	1	08/09/24 10:01	08/14/24 00:13	77-47-4	
Hexachloroethane	ND	ug/kg	407	110	1	08/09/24 10:01	08/14/24 00:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	407	153	1	08/09/24 10:01	08/14/24 00:13	193-39-5	
Isophorone	ND	ug/kg	407	58.8	1	08/09/24 10:01	08/14/24 00:13	78-59-1	
1-Methylnaphthalene	ND	ug/kg	407	102	1	08/09/24 10:01	08/14/24 00:13	90-12-0	
2-Methylnaphthalene	ND	ug/kg	407	59.6	1	08/09/24 10:01	08/14/24 00:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	407	147	1	08/09/24 10:01	08/14/24 00:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	815	250	1	08/09/24 10:01	08/14/24 00:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-14(1-2)-01-1033 **Lab ID: 30705771015** Collected: 08/02/24 11:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1020	142	1	08/09/24 10:01	08/14/24 00:13	88-74-4	
3-Nitroaniline	ND	ug/kg	1020	266	1	08/09/24 10:01	08/14/24 00:13	99-09-2	
4-Nitroaniline	ND	ug/kg	1020	572	1	08/09/24 10:01	08/14/24 00:13	100-01-6	
Nitrobenzene	ND	ug/kg	407	58.5	1	08/09/24 10:01	08/14/24 00:13	98-95-3	
2-Nitrophenol	ND	ug/kg	407	76.3	1	08/09/24 10:01	08/14/24 00:13	88-75-5	
4-Nitrophenol	ND	ug/kg	407	137	1	08/09/24 10:01	08/14/24 00:13	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	407	69.8	1	08/09/24 10:01	08/14/24 00:13	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	407	71.7	1	08/09/24 10:01	08/14/24 00:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	407	91.9	1	08/09/24 10:01	08/14/24 00:13	86-30-6	
Pentachlorophenol	ND	ug/kg	1020	536	1	08/09/24 10:01	08/14/24 00:13	87-86-5	
Phenanthrene	ND	ug/kg	407	73.9	1	08/09/24 10:01	08/14/24 00:13	85-01-8	
Phenol	ND	ug/kg	407	121	1	08/09/24 10:01	08/14/24 00:13	108-95-2	
Pyrene	ND	ug/kg	407	149	1	08/09/24 10:01	08/14/24 00:13	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	407	110	1	08/09/24 10:01	08/14/24 00:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1020	120	1	08/09/24 10:01	08/14/24 00:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	407	106	1	08/09/24 10:01	08/14/24 00:13	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	80	%.	32-154		1	08/09/24 10:01	08/14/24 00:13	4165-60-0	
2-Fluorobiphenyl (S)	79	%.	50-144		1	08/09/24 10:01	08/14/24 00:13	321-60-8	
Terphenyl-d14 (S)	96	%.	57-146		1	08/09/24 10:01	08/14/24 00:13	1718-51-0	
Phenol-d6 (S)	84	%.	54-121		1	08/09/24 10:01	08/14/24 00:13	13127-88-3	
2-Fluorophenol (S)	83	%.	57-124		1	08/09/24 10:01	08/14/24 00:13	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	44-127		1	08/09/24 10:01	08/14/24 00:13	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	41.3	27.8	1	08/06/24 13:11	08/06/24 22:14	67-64-1	
Benzene	ND	ug/kg	4.1	0.72	1	08/06/24 13:11	08/06/24 22:14	71-43-2	
Bromochloromethane	ND	ug/kg	4.1	0.90	1	08/06/24 13:11	08/06/24 22:14	74-97-5	
Bromodichloromethane	ND	ug/kg	4.1	0.90	1	08/06/24 13:11	08/06/24 22:14	75-27-4	
Bromoform	ND	ug/kg	4.1	1.7	1	08/06/24 13:11	08/06/24 22:14	75-25-2	
Bromomethane	ND	ug/kg	4.1	1.5	1	08/06/24 13:11	08/06/24 22:14	74-83-9	2c
TOTAL BTEX	ND	ug/kg	24.8	5.1	1	08/06/24 13:11	08/06/24 22:14		
2-Butanone (MEK)	ND	ug/kg	8.3	2.2	1	08/06/24 13:11	08/06/24 22:14	78-93-3	
Carbon disulfide	ND	ug/kg	4.1	1.2	1	08/06/24 13:11	08/06/24 22:14	75-15-0	
Carbon tetrachloride	ND	ug/kg	4.1	1.4	1	08/06/24 13:11	08/06/24 22:14	56-23-5	
Chlorobenzene	ND	ug/kg	4.1	0.64	1	08/06/24 13:11	08/06/24 22:14	108-90-7	
Chloroethane	ND	ug/kg	4.1	1.7	1	08/06/24 13:11	08/06/24 22:14	75-00-3	
Chloroform	ND	ug/kg	4.1	1.2	1	08/06/24 13:11	08/06/24 22:14	67-66-3	
Chloromethane	ND	ug/kg	4.1	1.4	1	08/06/24 13:11	08/06/24 22:14	74-87-3	
Dibromochloromethane	ND	ug/kg	4.1	0.65	1	08/06/24 13:11	08/06/24 22:14	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	4.1	0.49	1	08/06/24 13:11	08/06/24 22:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	4.1	0.54	1	08/06/24 13:11	08/06/24 22:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	4.1	0.59	1	08/06/24 13:11	08/06/24 22:14	106-46-7	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SS-14(1-2)-01-1033 **Lab ID: 30705771015** Collected: 08/02/24 11:00 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.1	1.0	1	08/06/24 13:11	08/06/24 22:14	75-34-3	
1,2-Dichloroethane	ND	ug/kg	4.1	1.1	1	08/06/24 13:11	08/06/24 22:14	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	8.3	2.0	1	08/06/24 13:11	08/06/24 22:14	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.1	1.5	1	08/06/24 13:11	08/06/24 22:14	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	4.1	0.96	1	08/06/24 13:11	08/06/24 22:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	4.1	1.0	1	08/06/24 13:11	08/06/24 22:14	156-60-5	
1,2-Dichloropropane	ND	ug/kg	4.1	0.59	1	08/06/24 13:11	08/06/24 22:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	4.1	0.41	1	08/06/24 13:11	08/06/24 22:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	4.1	0.86	1	08/06/24 13:11	08/06/24 22:14	10061-02-6	
Ethylbenzene	ND	ug/kg	4.1	0.89	1	08/06/24 13:11	08/06/24 22:14	100-41-4	
2-Hexanone	ND	ug/kg	8.3	1.9	1	08/06/24 13:11	08/06/24 22:14	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	4.1	0.96	1	08/06/24 13:11	08/06/24 22:14	98-82-8	
Methylene Chloride	ND	ug/kg	4.1	3.5	1	08/06/24 13:11	08/06/24 22:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	8.3	0.93	1	08/06/24 13:11	08/06/24 22:14	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	4.1	0.55	1	08/06/24 13:11	08/06/24 22:14	1634-04-4	
Naphthalene	ND	ug/kg	4.1	3.3	1	08/06/24 13:11	08/06/24 22:14	91-20-3	
Styrene	ND	ug/kg	4.1	1.2	1	08/06/24 13:11	08/06/24 22:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.1	0.49	1	08/06/24 13:11	08/06/24 22:14	79-34-5	
Tetrachloroethene	ND	ug/kg	4.1	1.4	1	08/06/24 13:11	08/06/24 22:14	127-18-4	
Toluene	ND	ug/kg	4.1	0.82	1	08/06/24 13:11	08/06/24 22:14	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	4.1	1.6	1	08/06/24 13:11	08/06/24 22:14	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	4.1	1.2	1	08/06/24 13:11	08/06/24 22:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	4.1	0.82	1	08/06/24 13:11	08/06/24 22:14	79-00-5	
Trichloroethene	ND	ug/kg	4.1	1.2	1	08/06/24 13:11	08/06/24 22:14	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	4.1	2.0	1	08/06/24 13:11	08/06/24 22:14	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	4.1	1.7	1	08/06/24 13:11	08/06/24 22:14	108-67-8	
Vinyl chloride	ND	ug/kg	4.1	1.7	1	08/06/24 13:11	08/06/24 22:14	75-01-4	
Xylene (Total)	ND	ug/kg	12.4	5.6	1	08/06/24 13:11	08/06/24 22:14	1330-20-7	
m&p-Xylene	ND	ug/kg	8.3	4.8	1	08/06/24 13:11	08/06/24 22:14	179601-23-1	
o-Xylene	ND	ug/kg	4.1	0.88	1	08/06/24 13:11	08/06/24 22:14	95-47-6	
Surrogates									
Toluene-d8 (S)	98	%.	70-130		1	08/06/24 13:11	08/06/24 22:14	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130		1	08/06/24 13:11	08/06/24 22:14	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130		1	08/06/24 13:11	08/06/24 22:14	17060-07-0	
Dibromofluoromethane (S)	98	%.	70-130		1	08/06/24 13:11	08/06/24 22:14	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**18.6**	%	0.10	0.10	1		08/06/24 11:56		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-14(7-8)-01-1034 **Lab ID: 30705771016** Collected: 08/02/24 11:10 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**7.1**	mg/kg	6.4	0.44	1	08/05/24 11:01	08/06/24 15:09	7440-38-2	
Barium	**20.2**	mg/kg	6.4	0.47	1	08/05/24 11:01	08/06/24 15:09	7440-39-3	
Cadmium	ND	mg/kg	1.3	0.18	1	08/05/24 11:01	08/06/24 15:09	7440-43-9	
Chromium	**20.7**	mg/kg	6.4	0.80	1	08/05/24 11:01	08/06/24 15:09	7440-47-3	
Lead	**13.1**	mg/kg	6.4	0.66	1	08/05/24 11:01	08/06/24 15:09	7439-92-1	
Selenium	**1.4J**	mg/kg	6.4	1.3	1	08/05/24 11:01	08/06/24 15:09	7782-49-2	
Silver	ND	mg/kg	3.2	0.46	1	08/05/24 11:01	08/06/24 15:09	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.11**	mg/kg	0.025	0.024	1	08/06/24 12:11	08/08/24 11:03	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.5	2.2	1	08/12/24 10:36	08/14/24 14:42	83-32-9	
Acenaphthylene	ND	ug/kg	8.5	1.7	1	08/12/24 10:36	08/14/24 14:42	208-96-8	
Anthracene	ND	ug/kg	8.5	1.7	1	08/12/24 10:36	08/14/24 14:42	120-12-7	
Benzo(a)anthracene	ND	ug/kg	8.5	2.2	1	08/12/24 10:36	08/14/24 14:42	56-55-3	
Benzo(a)pyrene	ND	ug/kg	8.5	3.7	1	08/12/24 10:36	08/14/24 14:42	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	8.5	2.4	1	08/12/24 10:36	08/14/24 14:42	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	8.5	1.3	1	08/12/24 10:36	08/14/24 14:42	191-24-2	
Benzo(k)fluoranthene	ND	ug/kg	8.5	1.4	1	08/12/24 10:36	08/14/24 14:42	207-08-9	
Chrysene	ND	ug/kg	8.5	1.3	1	08/12/24 10:36	08/14/24 14:42	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.5	1.7	1	08/12/24 10:36	08/14/24 14:42	53-70-3	
Fluoranthene	ND	ug/kg	8.5	5.7	1	08/12/24 10:36	08/14/24 14:42	206-44-0	
Fluorene	ND	ug/kg	16.9	8.7	1	08/12/24 10:36	08/14/24 14:42	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	8.5	3.3	1	08/12/24 10:36	08/14/24 14:42	193-39-5	
Naphthalene	ND	ug/kg	8.5	3.6	1	08/12/24 10:36	08/14/24 14:42	91-20-3	
Phenanthrene	ND	ug/kg	16.9	5.1	1	08/12/24 10:36	08/14/24 14:42	85-01-8	
Pyrene	ND	ug/kg	8.5	7.5	1	08/12/24 10:36	08/14/24 14:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	43	%.	46-99		1	08/12/24 10:36	08/14/24 14:42	321-60-8	SR
Terphenyl-d14 (S)	68	%.	48-118		1	08/12/24 10:36	08/14/24 14:42	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	416	61.8	1	08/09/24 10:01	08/14/24 00:36	83-32-9	
Acenaphthylene	ND	ug/kg	416	125	1	08/09/24 10:01	08/14/24 00:36	208-96-8	
Anthracene	ND	ug/kg	416	95.6	1	08/09/24 10:01	08/14/24 00:36	120-12-7	
Azobenzene	ND	ug/kg	416	147	1	08/09/24 10:01	08/14/24 00:36	103-33-3	
Benzo(a)anthracene	ND	ug/kg	416	72.1	1	08/09/24 10:01	08/14/24 00:36	56-55-3	
Benzo(a)pyrene	ND	ug/kg	416	129	1	08/09/24 10:01	08/14/24 00:36	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	416	127	1	08/09/24 10:01	08/14/24 00:36	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	416	144	1	08/09/24 10:01	08/14/24 00:36	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-14(7-8)-01-1034 **Lab ID: 30705771016** Collected: 08/02/24 11:10 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	416	184	1	08/09/24 10:01	08/14/24 00:36	207-08-9	
Benzoic acid	ND	ug/kg	6250	2110	1	08/09/24 10:01	08/14/24 00:36	65-85-0	
Benzyl alcohol	ND	ug/kg	416	368	1	08/09/24 10:01	08/14/24 00:36	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	416	153	1	08/09/24 10:01	08/14/24 00:36	101-55-3	
Butylbenzylphthalate	ND	ug/kg	416	117	1	08/09/24 10:01	08/14/24 00:36	85-68-7	
Carbazole	ND	ug/kg	416	164	1	08/09/24 10:01	08/14/24 00:36	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	416	67.0	1	08/09/24 10:01	08/14/24 00:36	59-50-7	
4-Chloroaniline	ND	ug/kg	416	73.3	1	08/09/24 10:01	08/14/24 00:36	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	416	72.4	1	08/09/24 10:01	08/14/24 00:36	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	416	76.0	1	08/09/24 10:01	08/14/24 00:36	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	416	118	1	08/09/24 10:01	08/14/24 00:36	108-60-1	
2-Chloronaphthalene	ND	ug/kg	416	119	1	08/09/24 10:01	08/14/24 00:36	91-58-7	
2-Chlorophenol	ND	ug/kg	416	59.4	1	08/09/24 10:01	08/14/24 00:36	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	416	120	1	08/09/24 10:01	08/14/24 00:36	7005-72-3	
Chrysene	ND	ug/kg	416	61.7	1	08/09/24 10:01	08/14/24 00:36	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	416	158	1	08/09/24 10:01	08/14/24 00:36	53-70-3	
Dibenzofuran	ND	ug/kg	416	134	1	08/09/24 10:01	08/14/24 00:36	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	416	54.7	1	08/09/24 10:01	08/14/24 00:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	416	51.8	1	08/09/24 10:01	08/14/24 00:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	416	57.5	1	08/09/24 10:01	08/14/24 00:36	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	416	122	1	08/09/24 10:01	08/14/24 00:36	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	416	70.7	1	08/09/24 10:01	08/14/24 00:36	120-83-2	
Diethylphthalate	ND	ug/kg	416	147	1	08/09/24 10:01	08/14/24 00:36	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	416	127	1	08/09/24 10:01	08/14/24 00:36	105-67-9	
Dimethylphthalate	ND	ug/kg	416	128	1	08/09/24 10:01	08/14/24 00:36	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3330	3050	1	08/09/24 10:01	08/14/24 00:36	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	1040	310	1	08/09/24 10:01	08/14/24 00:36	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	1040	936	1	08/09/24 10:01	08/14/24 00:36	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	416	126	1	08/09/24 10:01	08/14/24 00:36	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	416	127	1	08/09/24 10:01	08/14/24 00:36	606-20-2	
Di-n-octylphthalate	ND	ug/kg	416	274	1	08/09/24 10:01	08/14/24 00:36	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	416	133	1	08/09/24 10:01	08/14/24 00:36	117-81-7	
Fluoranthene	ND	ug/kg	416	134	1	08/09/24 10:01	08/14/24 00:36	206-44-0	
Fluorene	ND	ug/kg	416	128	1	08/09/24 10:01	08/14/24 00:36	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	416	65.3	1	08/09/24 10:01	08/14/24 00:36	87-68-3	
Hexachlorobenzene	ND	ug/kg	416	120	1	08/09/24 10:01	08/14/24 00:36	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	416	201	1	08/09/24 10:01	08/14/24 00:36	77-47-4	
Hexachloroethane	ND	ug/kg	416	112	1	08/09/24 10:01	08/14/24 00:36	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	416	157	1	08/09/24 10:01	08/14/24 00:36	193-39-5	
Isophorone	ND	ug/kg	416	60.1	1	08/09/24 10:01	08/14/24 00:36	78-59-1	
1-Methylnaphthalene	ND	ug/kg	416	105	1	08/09/24 10:01	08/14/24 00:36	90-12-0	
2-Methylnaphthalene	ND	ug/kg	416	60.9	1	08/09/24 10:01	08/14/24 00:36	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	416	150	1	08/09/24 10:01	08/14/24 00:36	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	833	256	1	08/09/24 10:01	08/14/24 00:36		

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ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-14(7-8)-01-1034 **Lab ID: 30705771016** Collected: 08/02/24 11:10 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	1040	145	1	08/09/24 10:01	08/14/24 00:36	88-74-4	
3-Nitroaniline	ND	ug/kg	1040	272	1	08/09/24 10:01	08/14/24 00:36	99-09-2	
4-Nitroaniline	ND	ug/kg	1040	585	1	08/09/24 10:01	08/14/24 00:36	100-01-6	
Nitrobenzene	ND	ug/kg	416	59.8	1	08/09/24 10:01	08/14/24 00:36	98-95-3	
2-Nitrophenol	ND	ug/kg	416	78.0	1	08/09/24 10:01	08/14/24 00:36	88-75-5	
4-Nitrophenol	ND	ug/kg	416	140	1	08/09/24 10:01	08/14/24 00:36	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	416	71.4	1	08/09/24 10:01	08/14/24 00:36	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	416	73.3	1	08/09/24 10:01	08/14/24 00:36	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	416	93.9	1	08/09/24 10:01	08/14/24 00:36	86-30-6	
Pentachlorophenol	ND	ug/kg	1040	548	1	08/09/24 10:01	08/14/24 00:36	87-86-5	
Phenanthrene	ND	ug/kg	416	75.5	1	08/09/24 10:01	08/14/24 00:36	85-01-8	
Phenol	ND	ug/kg	416	123	1	08/09/24 10:01	08/14/24 00:36	108-95-2	
Pyrene	ND	ug/kg	416	152	1	08/09/24 10:01	08/14/24 00:36	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	416	113	1	08/09/24 10:01	08/14/24 00:36	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	1040	123	1	08/09/24 10:01	08/14/24 00:36	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	416	109	1	08/09/24 10:01	08/14/24 00:36	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%.	32-154		1	08/09/24 10:01	08/14/24 00:36	4165-60-0	
2-Fluorobiphenyl (S)	79	%.	50-144		1	08/09/24 10:01	08/14/24 00:36	321-60-8	
Terphenyl-d14 (S)	95	%.	57-146		1	08/09/24 10:01	08/14/24 00:36	1718-51-0	
Phenol-d6 (S)	84	%.	54-121		1	08/09/24 10:01	08/14/24 00:36	13127-88-3	
2-Fluorophenol (S)	85	%.	57-124		1	08/09/24 10:01	08/14/24 00:36	367-12-4	
2,4,6-Tribromophenol (S)	85	%.	44-127		1	08/09/24 10:01	08/14/24 00:36	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	ND	ug/kg	55.8	37.5	1	08/06/24 13:11	08/06/24 22:42	67-64-1	
Benzene	ND	ug/kg	5.6	0.97	1	08/06/24 13:11	08/06/24 22:42	71-43-2	
Bromochloromethane	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 22:42	74-97-5	
Bromodichloromethane	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 22:42	75-27-4	
Bromoform	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 22:42	75-25-2	
Bromomethane	ND	ug/kg	5.6	2.1	1	08/06/24 13:11	08/06/24 22:42	74-83-9	2c
TOTAL BTEX	ND	ug/kg	33.5	6.8	1	08/06/24 13:11	08/06/24 22:42		
2-Butanone (MEK)	ND	ug/kg	11.2	2.9	1	08/06/24 13:11	08/06/24 22:42	78-93-3	
Carbon disulfide	ND	ug/kg	5.6	1.6	1	08/06/24 13:11	08/06/24 22:42	75-15-0	
Carbon tetrachloride	ND	ug/kg	5.6	1.9	1	08/06/24 13:11	08/06/24 22:42	56-23-5	
Chlorobenzene	ND	ug/kg	5.6	0.87	1	08/06/24 13:11	08/06/24 22:42	108-90-7	
Chloroethane	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 22:42	75-00-3	
Chloroform	ND	ug/kg	5.6	1.7	1	08/06/24 13:11	08/06/24 22:42	67-66-3	
Chloromethane	ND	ug/kg	5.6	1.9	1	08/06/24 13:11	08/06/24 22:42	74-87-3	
Dibromochloromethane	ND	ug/kg	5.6	0.88	1	08/06/24 13:11	08/06/24 22:42	124-48-1	
1,2-Dichlorobenzene	ND	ug/kg	5.6	0.66	1	08/06/24 13:11	08/06/24 22:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	5.6	0.73	1	08/06/24 13:11	08/06/24 22:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	5.6	0.79	1	08/06/24 13:11	08/06/24 22:42	106-46-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-SB-14(7-8)-01-1034 **Lab ID: 30705771016** Collected: 08/02/24 11:10 Received: 08/02/24 14:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	5.6	1.4	1	08/06/24 13:11	08/06/24 22:42	75-34-3	
1,2-Dichloroethane	ND	ug/kg	5.6	1.4	1	08/06/24 13:11	08/06/24 22:42	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/kg	11.2	2.7	1	08/06/24 13:11	08/06/24 22:42	540-59-0	
1,1-Dichloroethene	ND	ug/kg	5.6	2.1	1	08/06/24 13:11	08/06/24 22:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/kg	5.6	1.3	1	08/06/24 13:11	08/06/24 22:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/kg	5.6	1.4	1	08/06/24 13:11	08/06/24 22:42	156-60-5	
1,2-Dichloropropane	ND	ug/kg	5.6	0.80	1	08/06/24 13:11	08/06/24 22:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/kg	5.6	0.56	1	08/06/24 13:11	08/06/24 22:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 22:42	10061-02-6	
Ethylbenzene	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 22:42	100-41-4	
2-Hexanone	ND	ug/kg	11.2	2.6	1	08/06/24 13:11	08/06/24 22:42	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/kg	5.6	1.3	1	08/06/24 13:11	08/06/24 22:42	98-82-8	
Methylene Chloride	ND	ug/kg	5.6	4.7	1	08/06/24 13:11	08/06/24 22:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	11.2	1.2	1	08/06/24 13:11	08/06/24 22:42	108-10-1	
Methyl-tert-butyl ether	ND	ug/kg	5.6	0.75	1	08/06/24 13:11	08/06/24 22:42	1634-04-4	
Naphthalene	ND	ug/kg	5.6	4.4	1	08/06/24 13:11	08/06/24 22:42	91-20-3	
Styrene	ND	ug/kg	5.6	1.6	1	08/06/24 13:11	08/06/24 22:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.6	0.66	1	08/06/24 13:11	08/06/24 22:42	79-34-5	
Tetrachloroethene	ND	ug/kg	5.6	1.9	1	08/06/24 13:11	08/06/24 22:42	127-18-4	
Toluene	ND	ug/kg	5.6	1.1	1	08/06/24 13:11	08/06/24 22:42	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/kg	5.6	2.2	1	08/06/24 13:11	08/06/24 22:42	120-82-1	
1,1,1-Trichloroethane	ND	ug/kg	5.6	1.7	1	08/06/24 13:11	08/06/24 22:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/kg	5.6	1.1	1	08/06/24 13:11	08/06/24 22:42	79-00-5	
Trichloroethene	ND	ug/kg	5.6	1.6	1	08/06/24 13:11	08/06/24 22:42	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/kg	5.6	2.7	1	08/06/24 13:11	08/06/24 22:42	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 22:42	108-67-8	
Vinyl chloride	ND	ug/kg	5.6	2.3	1	08/06/24 13:11	08/06/24 22:42	75-01-4	
Xylene (Total)	ND	ug/kg	16.7	7.6	1	08/06/24 13:11	08/06/24 22:42	1330-20-7	
m&p-Xylene	ND	ug/kg	11.2	6.4	1	08/06/24 13:11	08/06/24 22:42	179601-23-1	
o-Xylene	ND	ug/kg	5.6	1.2	1	08/06/24 13:11	08/06/24 22:42	95-47-6	
Surrogates									
Toluene-d8 (S)	94	%.	70-130		1	08/06/24 13:11	08/06/24 22:42	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130		1	08/06/24 13:11	08/06/24 22:42	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1	08/06/24 13:11	08/06/24 22:42	17060-07-0	
Dibromofluoromethane (S)	97	%.	70-130		1	08/06/24 13:11	08/06/24 22:42	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**22.0**	%	0.10	0.10	1		08/06/24 11:56		

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-1-01-1029 **Lab ID: 30705771017** Collected: 08/01/24 16:10 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Water, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic	ND	ug/L	20.0	6.0	1	08/05/24 11:21	08/06/24 13:39	7440-38-2	
Barium	ND	ug/L	5.0	0.89	1	08/05/24 11:21	08/06/24 13:39	7440-39-3	
Cadmium	ND	ug/L	2.0	0.41	1	08/05/24 11:21	08/06/24 13:39	7440-43-9	
Chromium	ND	ug/L	5.0	0.43	1	08/05/24 11:21	08/06/24 13:39	7440-47-3	
Lead	ND	ug/L	10.0	2.8	1	08/05/24 11:21	08/06/24 13:39	7439-92-1	
Selenium	ND	ug/L	20.0	6.9	1	08/05/24 11:21	08/06/24 13:39	7782-49-2	
Silver	ND	ug/L	5.0	2.2	1	08/05/24 11:21	08/06/24 13:39	7440-22-4	
BVR 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury	ND	ug/L	0.20	0.20	1	08/08/24 08:47	08/08/24 15:07	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.093	1	08/06/24 09:00	08/07/24 11:08	83-32-9	1c,C4
Acenaphthylene	ND	ug/L	0.10	0.088	1	08/06/24 09:00	08/07/24 11:08	208-96-8	1c,C4
Anthracene	ND	ug/L	0.10	0.087	1	08/06/24 09:00	08/07/24 11:08	120-12-7	1c,C4
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	08/06/24 09:00	08/07/24 11:08	56-55-3	1c,C4
Benzo(a)pyrene	ND	ug/L	0.10	0.078	1	08/06/24 09:00	08/07/24 11:08	50-32-8	1c,C4
Benzo(b)fluoranthene	ND	ug/L	0.10	0.087	1	08/06/24 09:00	08/07/24 11:08	205-99-2	1c,C4
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.073	1	08/06/24 09:00	08/07/24 11:08	191-24-2	1c,C4
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	08/06/24 09:00	08/07/24 11:08	207-08-9	1c,C4
Chrysene	ND	ug/L	0.10	0.074	1	08/06/24 09:00	08/07/24 11:08	218-01-9	1c,C4
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.080	1	08/06/24 09:00	08/07/24 11:08	53-70-3	1c,C4
Fluoranthene	ND	ug/L	0.10	0.088	1	08/06/24 09:00	08/07/24 11:08	206-44-0	1c,C4
Fluorene	ND	ug/L	0.10	0.090	1	08/06/24 09:00	08/07/24 11:08	86-73-7	1c,C4
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.078	1	08/06/24 09:00	08/07/24 11:08	193-39-5	1c,C4
Naphthalene	ND	ug/L	0.20	0.19	1	08/06/24 09:00	08/07/24 11:08	91-20-3	1c,C4
Phenanthrene	ND	ug/L	0.10	0.088	1	08/06/24 09:00	08/07/24 11:08	85-01-8	1c,C4
Pyrene	ND	ug/L	0.10	0.086	1	08/06/24 09:00	08/07/24 11:08	129-00-0	1c,C4
Surrogates									
2-Fluorobiphenyl (S)	78	%.	43-95		1	08/06/24 09:00	08/07/24 11:08	321-60-8	
Terphenyl-d14 (S)	95	%.	47-118		1	08/06/24 09:00	08/07/24 11:08	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/12/24 23:52	83-32-9	C4
Acenaphthylene	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/12/24 23:52	208-96-8	C4,L1
Anthracene	ND	ug/L	1.0	0.66	1	08/07/24 08:20	08/12/24 23:52	120-12-7	C4,L1
Azobenzene	ND	ug/L	1.0	0.65	1	08/07/24 08:20	08/12/24 23:52	103-33-3	C4
Benzo(a)anthracene	ND	ug/L	1.0	0.77	1	08/07/24 08:20	08/12/24 23:52	56-55-3	C4
Benzo(a)pyrene	ND	ug/L	1.0	0.76	1	08/07/24 08:20	08/12/24 23:52	50-32-8	C4,L1
Benzo(b)fluoranthene	ND	ug/L	1.0	0.75	1	08/07/24 08:20	08/12/24 23:52	205-99-2	C4
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.80	1	08/07/24 08:20	08/12/24 23:52	191-24-2	C4,L1
Benzo(k)fluoranthene	ND	ug/L	1.0	0.72	1	08/07/24 08:20	08/12/24 23:52	207-08-9	C4

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-1-01-1029 **Lab ID: 30705771017** Collected: 08/01/24 16:10 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	15.0	4.3	1	08/07/24 08:20	08/12/24 23:52	65-85-0	C4
Benzyl alcohol	ND	ug/L	1.0	0.98	1	08/07/24 08:20	08/12/24 23:52	100-51-6	C4
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.68	1	08/07/24 08:20	08/12/24 23:52	101-55-3	C4
Butylbenzylphthalate	ND	ug/L	2.5	0.71	1	08/07/24 08:20	08/12/24 23:52	85-68-7	C4
Carbazole	ND	ug/L	1.0	0.70	1	08/07/24 08:20	08/12/24 23:52	86-74-8	C4
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.63	1	08/07/24 08:20	08/12/24 23:52	59-50-7	C4
4-Chloroaniline	ND	ug/L	1.0	0.50	1	08/07/24 08:20	08/12/24 23:52	106-47-8	C4
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/12/24 23:52	111-91-1	C4
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.53	1	08/07/24 08:20	08/12/24 23:52	111-44-4	C4
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.62	1	08/07/24 08:20	08/12/24 23:52	108-60-1	C4
2-Chloronaphthalene	ND	ug/L	1.0	0.66	1	08/07/24 08:20	08/12/24 23:52	91-58-7	C4,L1
2-Chlorophenol	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/12/24 23:52	95-57-8	C4
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/12/24 23:52	7005-72-3	C4
Chrysene	ND	ug/L	1.0	0.80	1	08/07/24 08:20	08/12/24 23:52	218-01-9	C4,L1
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.76	1	08/07/24 08:20	08/12/24 23:52	53-70-3	C4,L1
Dibenzofuran	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/12/24 23:52	132-64-9	C4
1,2-Dichlorobenzene	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/12/24 23:52	95-50-1	C4
1,3-Dichlorobenzene	ND	ug/L	1.0	0.56	1	08/07/24 08:20	08/12/24 23:52	541-73-1	C4
1,4-Dichlorobenzene	ND	ug/L	1.0	0.56	1	08/07/24 08:20	08/12/24 23:52	106-46-7	C4
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.81	1	08/07/24 08:20	08/12/24 23:52	91-94-1	C4
2,4-Dichlorophenol	ND	ug/L	1.0	0.61	1	08/07/24 08:20	08/12/24 23:52	120-83-2	C4,L1
Diethylphthalate	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/12/24 23:52	84-66-2	C4
2,4-Dimethylphenol	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/12/24 23:52	105-67-9	C4,CH,L1
Dimethylphthalate	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/12/24 23:52	131-11-3	C4,L1
Di-n-butylphthalate	ND	ug/L	1.0	0.80	1	08/07/24 08:20	08/12/24 23:52	84-74-2	C4
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1.7	1	08/07/24 08:20	08/12/24 23:52	534-52-1	C4
2,4-Dinitrophenol	ND	ug/L	2.5	2.4	1	08/07/24 08:20	08/12/24 23:52	51-28-5	C4
2,4-Dinitrotoluene	ND	ug/L	1.0	0.46	1	08/07/24 08:20	08/12/24 23:52	121-14-2	C4
2,6-Dinitrotoluene	ND	ug/L	1.0	0.55	1	08/07/24 08:20	08/12/24 23:52	606-20-2	C4,L1
Di-n-octylphthalate	ND	ug/L	2.5	1.1	1	08/07/24 08:20	08/12/24 23:52	117-84-0	C4
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.5	1.5	1	08/07/24 08:20	08/12/24 23:52	117-81-7	C4
Fluoranthene	ND	ug/L	1.0	0.71	1	08/07/24 08:20	08/12/24 23:52	206-44-0	C4,L1
Fluorene	ND	ug/L	1.0	0.61	1	08/07/24 08:20	08/12/24 23:52	86-73-7	C4
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/12/24 23:52	87-68-3	C4
Hexachlorobenzene	ND	ug/L	1.0	0.68	1	08/07/24 08:20	08/12/24 23:52	118-74-1	C4,L1
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.57	1	08/07/24 08:20	08/12/24 23:52	77-47-4	C4,L1
Hexachloroethane	ND	ug/L	1.0	0.57	1	08/07/24 08:20	08/12/24 23:52	67-72-1	C4
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.70	1	08/07/24 08:20	08/12/24 23:52	193-39-5	C4,L1
Isophorone	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/12/24 23:52	78-59-1	C4
1-Methylnaphthalene	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/12/24 23:52	90-12-0	C4
2-Methylnaphthalene	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/12/24 23:52	91-57-6	C4,L1
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.49	1	08/07/24 08:20	08/12/24 23:52	95-48-7	C4
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.89	1	08/07/24 08:20	08/12/24 23:52		C4
Naphthalene	ND	ug/L	2.5	0.67	1	08/07/24 08:20	08/12/24 23:52	91-20-3	C4,L1

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(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-1-01-1029 **Lab ID: 30705771017** Collected: 08/01/24 16:10 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/L	2.5	1.2	1	08/07/24 08:20	08/12/24 23:52	88-74-4	C4
3-Nitroaniline	ND	ug/L	2.5	1.4	1	08/07/24 08:20	08/12/24 23:52	99-09-2	C4
4-Nitroaniline	ND	ug/L	2.5	1.4	1	08/07/24 08:20	08/12/24 23:52	100-01-6	C4
Nitrobenzene	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/12/24 23:52	98-95-3	C4,L1
2-Nitrophenol	ND	ug/L	1.0	0.67	1	08/07/24 08:20	08/12/24 23:52	88-75-5	C4
4-Nitrophenol	ND	ug/L	1.0	0.35	1	08/07/24 08:20	08/12/24 23:52	100-02-7	C4
N-Nitrosodimethylamine	ND	ug/L	1.0	0.34	1	08/07/24 08:20	08/12/24 23:52	62-75-9	C4
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/12/24 23:52	621-64-7	C4
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.68	1	08/07/24 08:20	08/12/24 23:52	86-30-6	C4
Pentachlorophenol	ND	ug/L	2.5	1.5	1	08/07/24 08:20	08/12/24 23:52	87-86-5	C4
Phenanthrene	ND	ug/L	1.0	0.66	1	08/07/24 08:20	08/12/24 23:52	85-01-8	C4,L1
Phenol	ND	ug/L	1.0	0.25	1	08/07/24 08:20	08/12/24 23:52	108-95-2	C4
Pyrene	ND	ug/L	1.0	0.76	1	08/07/24 08:20	08/12/24 23:52	129-00-0	C4
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/12/24 23:52	120-82-1	C4,L1
2,4,5-Trichlorophenol	ND	ug/L	2.5	1.6	1	08/07/24 08:20	08/12/24 23:52	95-95-4	C4
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/12/24 23:52	88-06-2	C4,CH
Surrogates									
Nitrobenzene-d5 (S)	133	%.	43-123		1	08/07/24 08:20	08/12/24 23:52	4165-60-0	ST
2-Fluorobiphenyl (S)	103	%.	36-126		1	08/07/24 08:20	08/12/24 23:52	321-60-8	
Terphenyl-d14 (S)	126	%.	56-129		1	08/07/24 08:20	08/12/24 23:52	1718-51-0	
Phenol-d6 (S)	18	%.	11-56		1	08/07/24 08:20	08/12/24 23:52	13127-88-3	
2-Fluorophenol (S)	31	%.	25-80		1	08/07/24 08:20	08/12/24 23:52	367-12-4	
2,4,6-Tribromophenol (S)	133	%.	44-136		1	08/07/24 08:20	08/12/24 23:52	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		08/13/24 15:15	67-64-1	2c
Benzene	ND	ug/L	1.0	0.34	1		08/13/24 15:15	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/13/24 15:15	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/13/24 15:15	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		08/13/24 15:15	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		08/13/24 15:15	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/13/24 15:15		
2-Butanone (MEK)	**2.0J**	ug/L	10.0	1.5	1		08/13/24 15:15	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/13/24 15:15	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/13/24 15:15	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/13/24 15:15	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		08/13/24 15:15	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		08/13/24 15:15	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		08/13/24 15:15	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/13/24 15:15	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/13/24 15:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/13/24 15:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/13/24 15:15	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		08/13/24 15:15	75-34-3	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-1-01-1029 **Lab ID: 30705771017** Collected: 08/01/24 16:10 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/13/24 15:15	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/13/24 15:15	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		08/13/24 15:15	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/13/24 15:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		08/13/24 15:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		08/13/24 15:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/13/24 15:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/13/24 15:15	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/13/24 15:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/13/24 15:15	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		08/13/24 15:15	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		08/13/24 15:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/13/24 15:15	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/13/24 15:15	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		08/13/24 15:15	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/13/24 15:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/13/24 15:15	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/13/24 15:15	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/13/24 15:15	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		08/13/24 15:15	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/13/24 15:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/13/24 15:15	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		08/13/24 15:15	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/13/24 15:15	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/13/24 15:15	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/13/24 15:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/13/24 15:15	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/13/24 15:15	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/13/24 15:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		08/13/24 15:15	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130		1		08/13/24 15:15	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		1		08/13/24 15:15	2037-26-5	
Dibromofluoromethane (S)	97	%.	70-130		1		08/13/24 15:15	1868-53-7	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-2-01-1030 **Lab ID: 30705771018** Collected: 08/02/24 08:30 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Water, 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic	ND	ug/L	20.0	6.0	1	08/05/24 11:21	08/06/24 13:41	7440-38-2	
Barium	ND	ug/L	5.0	0.89	1	08/05/24 11:21	08/06/24 13:41	7440-39-3	
Cadmium	ND	ug/L	2.0	0.41	1	08/05/24 11:21	08/06/24 13:41	7440-43-9	
Chromium	ND	ug/L	5.0	0.43	1	08/05/24 11:21	08/06/24 13:41	7440-47-3	
Lead	ND	ug/L	10.0	2.8	1	08/05/24 11:21	08/06/24 13:41	7439-92-1	
Selenium	ND	ug/L	20.0	6.9	1	08/05/24 11:21	08/06/24 13:41	7782-49-2	
Silver	ND	ug/L	5.0	2.2	1	08/05/24 11:21	08/06/24 13:41	7440-22-4	
BVR 7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury	ND	ug/L	0.20	0.20	1	08/08/24 08:47	08/08/24 15:14	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.10	0.093	1	08/06/24 09:00	08/07/24 11:24	83-32-9	1c,C4
Acenaphthylene	ND	ug/L	0.10	0.088	1	08/06/24 09:00	08/07/24 11:24	208-96-8	1c,C4
Anthracene	ND	ug/L	0.10	0.087	1	08/06/24 09:00	08/07/24 11:24	120-12-7	1c,C4
Benzo(a)anthracene	ND	ug/L	0.10	0.081	1	08/06/24 09:00	08/07/24 11:24	56-55-3	1c,C4
Benzo(a)pyrene	ND	ug/L	0.10	0.078	1	08/06/24 09:00	08/07/24 11:24	50-32-8	1c,C4
Benzo(b)fluoranthene	ND	ug/L	0.10	0.087	1	08/06/24 09:00	08/07/24 11:24	205-99-2	1c,C4
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.073	1	08/06/24 09:00	08/07/24 11:24	191-24-2	1c,C4
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	08/06/24 09:00	08/07/24 11:24	207-08-9	1c,C4
Chrysene	ND	ug/L	0.10	0.074	1	08/06/24 09:00	08/07/24 11:24	218-01-9	1c,C4
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.080	1	08/06/24 09:00	08/07/24 11:24	53-70-3	1c,C4
Fluoranthene	ND	ug/L	0.10	0.088	1	08/06/24 09:00	08/07/24 11:24	206-44-0	1c,C4
Fluorene	ND	ug/L	0.10	0.090	1	08/06/24 09:00	08/07/24 11:24	86-73-7	1c,C4
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.078	1	08/06/24 09:00	08/07/24 11:24	193-39-5	1c,C4
Naphthalene	ND	ug/L	0.20	0.19	1	08/06/24 09:00	08/07/24 11:24	91-20-3	1c,C4
Phenanthrene	ND	ug/L	0.10	0.088	1	08/06/24 09:00	08/07/24 11:24	85-01-8	1c,C4
Pyrene	ND	ug/L	0.10	0.086	1	08/06/24 09:00	08/07/24 11:24	129-00-0	1c,C4
Surrogates									
2-Fluorobiphenyl (S)	92	%.	43-95		1	08/06/24 09:00	08/07/24 11:24	321-60-8	
Terphenyl-d14 (S)	100	%.	47-118		1	08/06/24 09:00	08/07/24 11:24	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/08/24 14:26	83-32-9	C4
Acenaphthylene	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/08/24 14:26	208-96-8	C4,L1
Anthracene	ND	ug/L	1.0	0.66	1	08/07/24 08:20	08/08/24 14:26	120-12-7	C4,L1
Azobenzene	ND	ug/L	1.0	0.65	1	08/07/24 08:20	08/08/24 14:26	103-33-3	C4
Benzo(a)anthracene	ND	ug/L	1.0	0.77	1	08/07/24 08:20	08/08/24 14:26	56-55-3	C4
Benzo(a)pyrene	ND	ug/L	1.0	0.76	1	08/07/24 08:20	08/08/24 14:26	50-32-8	C4,L1
Benzo(b)fluoranthene	ND	ug/L	1.0	0.75	1	08/07/24 08:20	08/08/24 14:26	205-99-2	C4
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.80	1	08/07/24 08:20	08/08/24 14:26	191-24-2	C4,L1
Benzo(k)fluoranthene	ND	ug/L	1.0	0.72	1	08/07/24 08:20	08/08/24 14:26	207-08-9	C4

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Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-2-01-1030 **Lab ID: 30705771018** Collected: 08/02/24 08:30 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	15.0	4.3	1	08/07/24 08:20	08/08/24 14:26	65-85-0	C4,CL
Benzyl alcohol	ND	ug/L	1.0	0.98	1	08/07/24 08:20	08/08/24 14:26	100-51-6	C4,R1
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.68	1	08/07/24 08:20	08/08/24 14:26	101-55-3	C4
Butylbenzylphthalate	ND	ug/L	2.5	0.71	1	08/07/24 08:20	08/08/24 14:26	85-68-7	C4,CH
Carbazole	ND	ug/L	1.0	0.70	1	08/07/24 08:20	08/08/24 14:26	86-74-8	C4
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.63	1	08/07/24 08:20	08/08/24 14:26	59-50-7	C4
4-Chloroaniline	ND	ug/L	1.0	0.50	1	08/07/24 08:20	08/08/24 14:26	106-47-8	C4,R1
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/08/24 14:26	111-91-1	C4
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.53	1	08/07/24 08:20	08/08/24 14:26	111-44-4	C4
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.62	1	08/07/24 08:20	08/08/24 14:26	108-60-1	C4
2-Chloronaphthalene	ND	ug/L	1.0	0.66	1	08/07/24 08:20	08/08/24 14:26	91-58-7	C4,L1
2-Chlorophenol	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/08/24 14:26	95-57-8	C4
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/08/24 14:26	7005-72-3	C4
Chrysene	ND	ug/L	1.0	0.80	1	08/07/24 08:20	08/08/24 14:26	218-01-9	C4,L1
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.76	1	08/07/24 08:20	08/08/24 14:26	53-70-3	C4,L1
Dibenzofuran	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/08/24 14:26	132-64-9	C4
1,2-Dichlorobenzene	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/08/24 14:26	95-50-1	C4
1,3-Dichlorobenzene	ND	ug/L	1.0	0.56	1	08/07/24 08:20	08/08/24 14:26	541-73-1	C4
1,4-Dichlorobenzene	ND	ug/L	1.0	0.56	1	08/07/24 08:20	08/08/24 14:26	106-46-7	C4
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.81	1	08/07/24 08:20	08/08/24 14:26	91-94-1	C4
2,4-Dichlorophenol	ND	ug/L	1.0	0.61	1	08/07/24 08:20	08/08/24 14:26	120-83-2	C4,L1
Diethylphthalate	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/08/24 14:26	84-66-2	C4
2,4-Dimethylphenol	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/08/24 14:26	105-67-9	C4,CH,L1
Dimethylphthalate	ND	ug/L	1.0	0.64	1	08/07/24 08:20	08/08/24 14:26	131-11-3	C4,L1
Di-n-butylphthalate	ND	ug/L	1.0	0.80	1	08/07/24 08:20	08/08/24 14:26	84-74-2	C4
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1.7	1	08/07/24 08:20	08/08/24 14:26	534-52-1	C4
2,4-Dinitrophenol	ND	ug/L	2.5	2.4	1	08/07/24 08:20	08/08/24 14:26	51-28-5	C4,CL
2,4-Dinitrotoluene	ND	ug/L	1.0	0.46	1	08/07/24 08:20	08/08/24 14:26	121-14-2	C4
2,6-Dinitrotoluene	ND	ug/L	1.0	0.55	1	08/07/24 08:20	08/08/24 14:26	606-20-2	C4,L1
Di-n-octylphthalate	ND	ug/L	2.5	1.1	1	08/07/24 08:20	08/08/24 14:26	117-84-0	C4
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.5	1.5	1	08/07/24 08:20	08/08/24 14:26	117-81-7	C4
Fluoranthene	ND	ug/L	1.0	0.71	1	08/07/24 08:20	08/08/24 14:26	206-44-0	C4,L1
Fluorene	ND	ug/L	1.0	0.61	1	08/07/24 08:20	08/08/24 14:26	86-73-7	C4
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/08/24 14:26	87-68-3	C4
Hexachlorobenzene	ND	ug/L	1.0	0.68	1	08/07/24 08:20	08/08/24 14:26	118-74-1	C4,L1
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.57	1	08/07/24 08:20	08/08/24 14:26	77-47-4	C4,L1
Hexachloroethane	ND	ug/L	1.0	0.57	1	08/07/24 08:20	08/08/24 14:26	67-72-1	C4
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.70	1	08/07/24 08:20	08/08/24 14:26	193-39-5	C4,L1
Isophorone	ND	ug/L	1.0	0.60	1	08/07/24 08:20	08/08/24 14:26	78-59-1	C4
1-Methylnaphthalene	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/08/24 14:26	90-12-0	C4
2-Methylnaphthalene	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/08/24 14:26	91-57-6	C4,L1
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.49	1	08/07/24 08:20	08/08/24 14:26	95-48-7	C4
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.89	1	08/07/24 08:20	08/08/24 14:26		C4
Naphthalene	ND	ug/L	2.5	0.67	1	08/07/24 08:20	08/08/24 14:26	91-20-3	C4,L1

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-2-01-1030 **Lab ID: 30705771018** Collected: 08/02/24 08:30 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/L	2.5	1.2	1	08/07/24 08:20	08/08/24 14:26	88-74-4	C4
3-Nitroaniline	ND	ug/L	2.5	1.4	1	08/07/24 08:20	08/08/24 14:26	99-09-2	C4
4-Nitroaniline	ND	ug/L	2.5	1.4	1	08/07/24 08:20	08/08/24 14:26	100-01-6	C4,R1
Nitrobenzene	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/08/24 14:26	98-95-3	C4,L1
2-Nitrophenol	ND	ug/L	1.0	0.67	1	08/07/24 08:20	08/08/24 14:26	88-75-5	C4
4-Nitrophenol	ND	ug/L	1.0	0.35	1	08/07/24 08:20	08/08/24 14:26	100-02-7	C4
N-Nitrosodimethylamine	ND	ug/L	1.0	0.34	1	08/07/24 08:20	08/08/24 14:26	62-75-9	C4,R1
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.58	1	08/07/24 08:20	08/08/24 14:26	621-64-7	C4
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.68	1	08/07/24 08:20	08/08/24 14:26	86-30-6	C4
Pentachlorophenol	ND	ug/L	2.5	1.5	1	08/07/24 08:20	08/08/24 14:26	87-86-5	C4
Phenanthrene	ND	ug/L	1.0	0.66	1	08/07/24 08:20	08/08/24 14:26	85-01-8	C4,L1
Phenol	ND	ug/L	1.0	0.25	1	08/07/24 08:20	08/08/24 14:26	108-95-2	C4
Pyrene	ND	ug/L	1.0	0.76	1	08/07/24 08:20	08/08/24 14:26	129-00-0	C4
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/08/24 14:26	120-82-1	C4,L1
2,4,5-Trichlorophenol	ND	ug/L	2.5	1.6	1	08/07/24 08:20	08/08/24 14:26	95-95-4	C4
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.59	1	08/07/24 08:20	08/08/24 14:26	88-06-2	C4
Surrogates									
Nitrobenzene-d5 (S)	99	%.	43-123		1	08/07/24 08:20	08/08/24 14:26	4165-60-0	
2-Fluorobiphenyl (S)	97	%.	36-126		1	08/07/24 08:20	08/08/24 14:26	321-60-8	
Terphenyl-d14 (S)	116	%.	56-129		1	08/07/24 08:20	08/08/24 14:26	1718-51-0	
Phenol-d6 (S)	16	%.	11-56		1	08/07/24 08:20	08/08/24 14:26	13127-88-3	
2-Fluorophenol (S)	26	%.	25-80		1	08/07/24 08:20	08/08/24 14:26	367-12-4	
2,4,6-Tribromophenol (S)	90	%.	44-136		1	08/07/24 08:20	08/08/24 14:26	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		08/13/24 15:40	67-64-1	2c
Benzene	ND	ug/L	1.0	0.34	1		08/13/24 15:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/13/24 15:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/13/24 15:40	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		08/13/24 15:40	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		08/13/24 15:40	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/13/24 15:40		
2-Butanone (MEK)	**1.7J**	ug/L	10.0	1.5	1		08/13/24 15:40	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/13/24 15:40	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/13/24 15:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/13/24 15:40	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		08/13/24 15:40	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		08/13/24 15:40	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		08/13/24 15:40	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/13/24 15:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/13/24 15:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/13/24 15:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/13/24 15:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		08/13/24 15:40	75-34-3	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: GVMC-EB-2-01-1030 **Lab ID: 30705771018** Collected: 08/02/24 08:30 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/13/24 15:40	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/13/24 15:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		08/13/24 15:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/13/24 15:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		08/13/24 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		08/13/24 15:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/13/24 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/13/24 15:40	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/13/24 15:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/13/24 15:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		08/13/24 15:40	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		08/13/24 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/13/24 15:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/13/24 15:40	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		08/13/24 15:40	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/13/24 15:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/13/24 15:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/13/24 15:40	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/13/24 15:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		08/13/24 15:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/13/24 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/13/24 15:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		08/13/24 15:40	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/13/24 15:40	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/13/24 15:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/13/24 15:40	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/13/24 15:40	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/13/24 15:40	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/13/24 15:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	70-130		1		08/13/24 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1		08/13/24 15:40	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		1		08/13/24 15:40	2037-26-5	
Dibromofluoromethane (S)	99	%.	70-130		1		08/13/24 15:40	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: TRIP BLANK **Lab ID: 30705771019** Collected: 08/01/24 00:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		08/13/24 13:08	67-64-1	2c
Benzene	ND	ug/L	1.0	0.34	1		08/13/24 13:08	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		08/13/24 13:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		08/13/24 13:08	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		08/13/24 13:08	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		08/13/24 13:08	74-83-9	
TOTAL BTEX	ND	ug/L	6.0	2.4	1		08/13/24 13:08		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		08/13/24 13:08	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		08/13/24 13:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		08/13/24 13:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		08/13/24 13:08	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		08/13/24 13:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		08/13/24 13:08	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		08/13/24 13:08	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	0.43	1		08/13/24 13:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		08/13/24 13:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		08/13/24 13:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		08/13/24 13:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		08/13/24 13:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		08/13/24 13:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		08/13/24 13:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		08/13/24 13:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		08/13/24 13:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		08/13/24 13:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		08/13/24 13:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		08/13/24 13:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		08/13/24 13:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		08/13/24 13:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		08/13/24 13:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		08/13/24 13:08	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		08/13/24 13:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		08/13/24 13:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		08/13/24 13:08	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		08/13/24 13:08	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		08/13/24 13:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		08/13/24 13:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		08/13/24 13:08	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		08/13/24 13:08	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		08/13/24 13:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		08/13/24 13:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		08/13/24 13:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		08/13/24 13:08	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		08/13/24 13:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		08/13/24 13:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		08/13/24 13:08	75-01-4	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: WV1966-Revised Report
Pace Project No.: 30705771

Sample: TRIP BLANK **Lab ID: 30705771019** Collected: 08/01/24 00:00 Received: 08/02/24 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Xylene (Total)	ND	ug/L	3.0	1.4	1		08/13/24 13:08	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		08/13/24 13:08	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		08/13/24 13:08	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	70-130		1		08/13/24 13:08	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1		08/13/24 13:08	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		1		08/13/24 13:08	2037-26-5	
Dibromofluoromethane (S)	97	%.	70-130		1		08/13/24 13:08	1868-53-7	

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225 Industrial Park RD
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QUALIFIERS

Project: WV1966-Revised Report
Pace Project No.: 30705771

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 687294

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	The analyte did not meet the method recommended minimum RF.
C4	Sample container did not meet EPA or method requirements.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
ED	Due to the extract's physical characteristics, the analysis was performed at dilution.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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Beaver, WV 25813
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QUALIFIERS

Project: WV1966-Revised Report
Pace Project No.: 30705771

ANALYTE QUALIFIERS

MH	Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
P1	Routine initial sample volume or weight was not used for extraction, resulting in elevated reporting limits.
R1	RPD value was outside control limits.
SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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225 Industrial Park RD
Beaver, WV 25813
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WV1966-Revised Report
Pace Project No.: 30705771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30705771001	**GVMC-SS-2(1-2)-01-1017**	EPA 3050B	687051	EPA 6010D	687513
30705771002	**GVMC-SB-2(7-8)-01-1018**	EPA 3050B	687051	EPA 6010D	687513
30705771003	**GVMC-SS-9(1-2)-01-1019**	EPA 3050B	687051	EPA 6010D	687513
30705771004	**GVMC-SB-9(7-8)-01-1020**	EPA 3050B	687051	EPA 6010D	687513
30705771005	**GVMC-SS-10(1-2)-01-1021**	EPA 3050B	687051	EPA 6010D	687513
30705771006	**GVMC-SB-10(7-8)-01-1022**	EPA 3050B	687073	EPA 6010D	687512
30705771007	**GVMC-SS-11(1-2)-01-1023**	EPA 3050B	687073	EPA 6010D	687512
30705771008	**GVMC-SB-11(7-8)-01-1024**	EPA 3050B	687073	EPA 6010D	687512
30705771009	**GVMC-SS-12(1-2)-01-1025**	EPA 3050B	687073	EPA 6010D	687512
30705771010	**GVMC-SS-12(1-2)-02-1026**	EPA 3050B	687073	EPA 6010D	687512
30705771011	**GVMC-SB-12(7-8)-01-1027**	EPA 3050B	687073	EPA 6010D	687512
30705771012	**GVMC-SB-12(7-8)-02-1028**	EPA 3050B	687073	EPA 6010D	687512
30705771013	**GVMC-SS-13(1-2)-01-1031**	EPA 3050B	687073	EPA 6010D	687512
30705771014	**GVMC-SB-13(7-8)-01-1032**	EPA 3050B	687073	EPA 6010D	687512
30705771015	**GVMC-SS-14(1-2)-01-1033**	EPA 3050B	687073	EPA 6010D	687512
30705771016	**GVMC-SB-14(7-8)-01-1034**	EPA 3050B	687073	EPA 6010D	687512
30705771017	**GVMC-EB-1-01-1029**	EPA 3010A	687130	EPA 6010D	687230
30705771018	**GVMC-EB-2-01-1030**	EPA 3010A	687130	EPA 6010D	687230
30705771017	**GVMC-EB-1-01-1029**	EPA 7470A	687997	EPA 7470A	688142
30705771018	**GVMC-EB-2-01-1030**	EPA 7470A	687997	EPA 7470A	688142
30705771001	**GVMC-SS-2(1-2)-01-1017**	EPA 7471B	687403	EPA 7471B	687538
30705771002	**GVMC-SB-2(7-8)-01-1018**	EPA 7471B	687403	EPA 7471B	687538
30705771003	**GVMC-SS-9(1-2)-01-1019**	EPA 7471B	687403	EPA 7471B	687538
30705771004	**GVMC-SB-9(7-8)-01-1020**	EPA 7471B	687403	EPA 7471B	687538
30705771005	**GVMC-SS-10(1-2)-01-1021**	EPA 7471B	687403	EPA 7471B	687538
30705771006	**GVMC-SB-10(7-8)-01-1022**	EPA 7471B	687403	EPA 7471B	687538
30705771007	**GVMC-SS-11(1-2)-01-1023**	EPA 7471B	687403	EPA 7471B	687538
30705771008	**GVMC-SB-11(7-8)-01-1024**	EPA 7471B	687403	EPA 7471B	687538
30705771009	**GVMC-SS-12(1-2)-01-1025**	EPA 7471B	687403	EPA 7471B	687538
30705771010	**GVMC-SS-12(1-2)-02-1026**	EPA 7471B	687403	EPA 7471B	687538
30705771011	**GVMC-SB-12(7-8)-01-1027**	EPA 7471B	687403	EPA 7471B	687538
30705771012	**GVMC-SB-12(7-8)-02-1028**	EPA 7471B	687403	EPA 7471B	687538
30705771013	**GVMC-SS-13(1-2)-01-1031**	EPA 7471B	687403	EPA 7471B	687538
30705771014	**GVMC-SB-13(7-8)-01-1032**	EPA 7471B	687403	EPA 7471B	687538
30705771015	**GVMC-SS-14(1-2)-01-1033**	EPA 7471B	687403	EPA 7471B	687538
30705771016	**GVMC-SB-14(7-8)-01-1034**	EPA 7471B	687403	EPA 7471B	687538
30705771017	**GVMC-EB-1-01-1029**	EPA 3510C	687294	EPA 8270E By SIM	687665
30705771018	**GVMC-EB-2-01-1030**	EPA 3510C	687294	EPA 8270E By SIM	687665
30705771001	**GVMC-SS-2(1-2)-01-1017**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771002	**GVMC-SB-2(7-8)-01-1018**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771003	**GVMC-SS-9(1-2)-01-1019**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771004	**GVMC-SB-9(7-8)-01-1020**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771005	**GVMC-SS-10(1-2)-01-1021**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771006	**GVMC-SB-10(7-8)-01-1022**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771007	**GVMC-SS-11(1-2)-01-1023**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771008	**GVMC-SB-11(7-8)-01-1024**	EPA 3546	688472	EPA 8270E by SIM	688861

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WV1966-Revised Report
Pace Project No.: 30705771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30705771009	**GVMC-SS-12(1-2)-01-1025**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771010	**GVMC-SS-12(1-2)-02-1026**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771011	**GVMC-SB-12(7-8)-01-1027**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771012	**GVMC-SB-12(7-8)-02-1028**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771013	**GVMC-SS-13(1-2)-01-1031**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771014	**GVMC-SB-13(7-8)-01-1032**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771015	**GVMC-SS-14(1-2)-01-1033**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771016	**GVMC-SB-14(7-8)-01-1034**	EPA 3546	688472	EPA 8270E by SIM	688861
30705771001	**GVMC-SS-2(1-2)-01-1017**	EPA 3546	688135	EPA 8270E	688554
30705771002	**GVMC-SB-2(7-8)-01-1018**	EPA 3546	688135	EPA 8270E	688554
30705771003	**GVMC-SS-9(1-2)-01-1019**	EPA 3546	688135	EPA 8270E	688554
30705771004	**GVMC-SB-9(7-8)-01-1020**	EPA 3546	688135	EPA 8270E	688554
30705771005	**GVMC-SS-10(1-2)-01-1021**	EPA 3546	688135	EPA 8270E	688554
30705771006	**GVMC-SB-10(7-8)-01-1022**	EPA 3546	688135	EPA 8270E	688554
30705771007	**GVMC-SS-11(1-2)-01-1023**	EPA 3546	688135	EPA 8270E	688554
30705771008	**GVMC-SB-11(7-8)-01-1024**	EPA 3546	688135	EPA 8270E	688554
30705771009	**GVMC-SS-12(1-2)-01-1025**	EPA 3546	688135	EPA 8270E	688554
30705771010	**GVMC-SS-12(1-2)-02-1026**	EPA 3546	688135	EPA 8270E	688554
30705771011	**GVMC-SB-12(7-8)-01-1027**	EPA 3546	688135	EPA 8270E	688554
30705771012	**GVMC-SB-12(7-8)-02-1028**	EPA 3546	688135	EPA 8270E	688554
30705771013	**GVMC-SS-13(1-2)-01-1031**	EPA 3546	688135	EPA 8270E	688554
30705771014	**GVMC-SB-13(7-8)-01-1032**	EPA 3546	688135	EPA 8270E	688554
30705771015	**GVMC-SS-14(1-2)-01-1033**	EPA 3546	688135	EPA 8270E	688554
30705771016	**GVMC-SB-14(7-8)-01-1034**	EPA 3546	688135	EPA 8270E	688554
30705771017	**GVMC-EB-1-01-1029**	EPA 3510C	687655	EPA 8270E	687849
30705771018	**GVMC-EB-2-01-1030**	EPA 3510C	687655	EPA 8270E	687849
30705771001	**GVMC-SS-2(1-2)-01-1017**	EPA 5035A	687459	EPA 8260D	687482
30705771002	**GVMC-SB-2(7-8)-01-1018**	EPA 5035A	687459	EPA 8260D	687482
30705771003	**GVMC-SS-9(1-2)-01-1019**	EPA 5035A	687459	EPA 8260D	687482
30705771004	**GVMC-SB-9(7-8)-01-1020**	EPA 5035A	687459	EPA 8260D	687482
30705771005	**GVMC-SS-10(1-2)-01-1021**	EPA 5035A	687459	EPA 8260D	687482
30705771006	**GVMC-SB-10(7-8)-01-1022**	EPA 5035A	687459	EPA 8260D	687482
30705771007	**GVMC-SS-11(1-2)-01-1023**	EPA 5035A	687459	EPA 8260D	687482
30705771008	**GVMC-SB-11(7-8)-01-1024**	EPA 5035A	687459	EPA 8260D	687482
30705771009	**GVMC-SS-12(1-2)-01-1025**	EPA 5035A	687459	EPA 8260D	687482
30705771010	**GVMC-SS-12(1-2)-02-1026**	EPA 5035A	687459	EPA 8260D	687482
30705771011	**GVMC-SB-12(7-8)-01-1027**	EPA 5035A	687459	EPA 8260D	687482
30705771012	**GVMC-SB-12(7-8)-02-1028**	EPA 5035A	687459	EPA 8260D	687482
30705771013	**GVMC-SS-13(1-2)-01-1031**	EPA 5035A	687459	EPA 8260D	687482
30705771014	**GVMC-SB-13(7-8)-01-1032**	EPA 5035A	687459	EPA 8260D	687482
30705771015	**GVMC-SS-14(1-2)-01-1033**	EPA 5035A	687459	EPA 8260D	687482
30705771016	**GVMC-SB-14(7-8)-01-1034**	EPA 5035A	687459	EPA 8260D	687482
30705771017	**GVMC-EB-1-01-1029**	EPA 8260D	689019		
30705771018	**GVMC-EB-2-01-1030**	EPA 8260D	689019		
30705771019	**TRIP BLANK**	EPA 8260D	689019		
30705771001	**GVMC-SS-2(1-2)-01-1017**	SM 2540G-2015	687312		

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WV1966-Revised Report
Pace Project No.: 30705771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30705771002	**GVMC-SB-2(7-8)-01-1018**	SM 2540G-2015	687312		
30705771003	**GVMC-SS-9(1-2)-01-1019**	SM 2540G-2015	687312		
30705771004	**GVMC-SB-9(7-8)-01-1020**	SM 2540G-2015	687312		
30705771005	**GVMC-SS-10(1-2)-01-1021**	SM 2540G-2015	687312		
30705771006	**GVMC-SB-10(7-8)-01-1022**	SM 2540G-2015	687312		
30705771007	**GVMC-SS-11(1-2)-01-1023**	SM 2540G-2015	687312		
30705771008	**GVMC-SB-11(7-8)-01-1024**	SM 2540G-2015	687312		
30705771009	**GVMC-SS-12(1-2)-01-1025**	SM 2540G-2015	687312		
30705771010	**GVMC-SS-12(1-2)-02-1026**	SM 2540G-2015	687312		
30705771011	**GVMC-SB-12(7-8)-01-1027**	SM 2540G-2015	687312		
30705771012	**GVMC-SB-12(7-8)-02-1028**	SM 2540G-2015	687312		
30705771013	**GVMC-SS-13(1-2)-01-1031**	SM 2540G-2015	687312		
30705771014	**GVMC-SB-13(7-8)-01-1032**	SM 2540G-2015	687312		
30705771015	**GVMC-SS-14(1-2)-01-1033**	SM 2540G-2015	687312		
30705771016	**GVMC-SB-14(7-8)-01-1034**	SM 2540G-2015	687312		

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WO# : 30705771

30705771

LAB USE ONLY- Affix Workorde

ALL SHADED

Company: KEMRON Environmental Services, Inc.	Billing Information:
Address: 108 Cardinal Way, Suite 5, Poca, WV	
Report To: Andy Chaber	Email To: achaber@kemron.com
Copy To: Evan Auvil	Site Collection Info/Address: GVMC/Rhoncroth, WV
Customer Project Name/Number: WV1966	State: WV County/City: Greenbrier/Rhoncroth Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0999 Email: achaber@kemron.com	Site/Facility ID #: GVMC
Collected By (print): Evan Auvil	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Compliance Monitoring? [ ] Yes [ ] No
	DW PWS ID #: DW Location Code:
	Immediately Packed on Ice: [ ] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Total MSA Metals Gw10
GVMC-SS-2(1-2)-01-1017	SL	Grab	7/31/24	1325					X	X	X	X
GVMC-SB-2(7-8)-01-1018				1330					X	X	X	X
GVMC-SS-9(1-2)-01-1019				1630					X	X	X	X
GVMC-SB-9(7-8)-01-1020				1640					X	X	X	X
GVMC-SS-10(1-2)-01-1021			8/1/24	925					X	X	X	X
GVMC-SB-10(7-8)-01-1022				1125					X	X	X	X
GVMC-SS-11(1-2)-01-1023				1300					X	X	X	X
GVMC-SB-11(7-8)-01-1024				1315					X	X	X	X
GVMC-SS-12(1-2)-01-1025				1520					X	X	X	X
GVMC-SS-1(1-2)-01-1026				1520					X	X	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

NON-CONFORMANCE
No preservative Types
or # of ctns

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2857736

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 1.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 8/2/24 1145	Received by/Company: (Signature)	Date/Time: 8/2/24 1145
Relinquished by/Company: (Signature) Kemron	Date/Time: 8/2/24 1400	Received by/Company: (Signature) 8-2-24	Date/Time: 1400
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

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ALL SHADED AREAS are for LAB USE ONLY

Company: Kenvon Environmental Services, Inc.	Billing Information:
Address: 108 Cracklock Way, Suite 3, Dover, DE	
Report To: Alexis Clarke	Email To: aclarke@kenvon.com
Copy To: Evan Amick	Site Collection Info/Address: GVMC / Bonneville, WV
Customer Project Name/Number: WV 1966	State: WV County/City: Greenbrier / Rainelle Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-750-0499 Email: aclarke@kenvon.com	Site/Facility ID #: GVMC Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Evan Amick	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Total Arsenic Metals 6010	Lab Sample # / Comments
GVMC-SS-12(1-2)-01-1025MS	SL	Grab	8/1/24	1520					X	X	X	X	
GVMC-SS-12(1-2)-01-1025MSD	SL	Grab	8/1/24	1520					X	X	X	X	
GVMC-SB-12(7-8)-01-1027				1530					X	X	X	X	
GVMC-SB-12(7-8)-02-1028				1530					X	X	X	X	
GVMC-SB-12(7-8)-01-1027MS				1530					X	X	X	X	
GVMC-SB-12(7-8)-01-1027MSD				1530					X	X	X	X	
GVMC-SS-13(1-2)-01-1031			8/2/24	940					X	X	X	X	
GVMC-SB-13(7-8)-01-1032				945					X	X	X	X	
GVMC-SS-14(1-2)-01-1033				1100					X	X	X	X	
GVMC-SB-14(7-8)-01-1034				1110					X	X	X	X	

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949275

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 26

Cooler 1 Temp Upon Receipt: 1.2 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.2 oC

Comments:

Relinquished by/Company: (Signature)	Date/Time: 8/2/24 1145	Received by/Company: (Signature)	Date/Time: 8/2/24 1145
Relinquished by/Company: (Signature) Kenvon	Date/Time: 8/2/24 1400	Received by/Company: (Signature) 8-2-24	Date/Time: 1400
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES / NO

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: KEARON Environmental Srvs., Inc	Billing Information:
Address: 108 Cresdeed Way, Suite 5, Poca, WV	
Report To: Abde Acabar	Email To: aclabar@kearonlam
Copy To: Evan Jewell	Site Collection Info/Address: GVMC/Ranson, WV
Customer Project Name/Number: WV1966	State: WV / County/City: Greenbrier/Jefferson / Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0984 Email: aclabar@kearon.com	Site/Facility ID #: GVMC / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Evan Jewell	Purchase Order #: Quote #: / DW PWS ID #: DW Location Code:
Collected By (Signature):	Turnaround Date Required: Standard / Immediately Packed on Ice: [ ] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Total RCRA Metals 6010								
GVMC-EB-1-01-1029	Water	Grab	8/1/24	1610					X	X	X	X								
GVMC-EB-2-01-1030	↓	↓	8/2/24	930					X	X	X	X								
* Trip Blank								3	X											

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949276

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: 26

Cooler 1 Temp Upon Receipt: 1.2 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 1.2 oC

Comments:

* Percont 8/2/24 2c

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Relinquished by/Company: (Signature)	Date/Time: 8/2/24 1145	Received by/Company: (Signature)	Date/Time: 8/2/24 1145
Relinquished by/Company: (Signature) Kearon	Date/Time: 8/2/24 / 1400	Received by/Company: (Signature)	Date/Time: 1400
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Non Conformance(s): YES / NO

WO# : 30705771

PM: BAA Due Date: 08/14/24

CLIENT: BV-KEENPOCA

LIMS30 Lab Sample Condition Upon Receipt (West Virgin

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ 3rd Party Courier ☐ Pace ☐

Tracking #:

Custody Seal on Cooler/Box/Containers Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used M26 **Type of Ice:** (Wet) Blue None

Cooler Temperature **Observed Temp** 1.2 °C Correction Factor: 0 °C Final Temp: 1.2 °C

Thermal Preservation Requirement Met Yes ☑ No ☐

pH paper Lot#	Date and Initials of person examining contents: JC 8-2-24

	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:		✓		2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT SL	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous sample field filtered:			✓	13.
-pH adjusted within 24 hours? (If yes, indicate acid lot #)			✓	
Filtered volume received for Dissolved tests:			✓	14.
All containers have been checked for chemical preservation:	✓			15.
exceptions: VOA, coliform, O&G, LLMercury, Non-aqueous matrix				
All containers meet method/chemical preservation requirements:	✓			Initial when completed JC Date: 8-2-24
				Tests not preserved:
Headspace in VOA Vials:	✓			16. HS in trip blank
Trip Blank Present:	✓			17.
				Initial when completed: JC Date: 8-2-24

Comments:

***PM review** is documented electronically in LIMS, when the Project Manager closes the SRF Review schedule in LIMS. The status may be reviewed in the Status section of the Workorder Edit Screen.

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorde

WO# : 30705771

30705771

ALL SHADED

Company: KENTRON Environmental Services, Inc.	Billing Information:
Address: 108 Caddell Way, SUITE E, Poca, WV	
Report To: Andy Chaber	Email To: achaber@kentron.com
Copy To: Evan Auvil	Site Collection Info/Address: GVMC/Rancewood, WV
Customer Project Name/Number: WV1966	State: WV County/City: Greenbrier/Rancewood Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0999 Email: achaber@kentron.com	Site/Facility ID #: GVMC
Collected By (print): Evan Auvil	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Tot Mets Metals 6010
GVMC-SB-2(1-2)-01-1017	SL	Grab	7/31/24	1325					X	X	X	X
GVMC-SB-2(7-8)-01-1018				1330					X	X	X	X
GVMC-SB-9(1-2)-01-1019				1630					X	X	X	X
GVMC-SB-9(7-8)-01-1020				1640					X	X	X	X
GVMC-SB-10(1-2)-01-1021			8/1/24	925					X	X	X	X
GVMC-SB-10(7-8)-01-1022				1125					X	X	X	X
GVMC-SB-11(1-2)-01-1023				1300					X	X	X	X
GVMC-SB-11(7-8)-01-1024				1315					X	X	X	X
GVMC-SB-12(1-2)-01-1025				1520					X	X	X	X
GVMC-SB-12(7-8)-01-1026				1520					X	X	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

NON-CONFORMANCE
No preservative types or # of ctns

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2857736

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 1.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 8/2/24 1145	Received by/Company: (Signature)	Date/Time: 8/2/24 1145
Relinquished by/Company: (Signature) Kentron	Date/Time: 8/2/24 1400	Received by/Company: (Signature) Ange 8-2-24	Date/Time: 1400
Relinquished by/Company: (Signature) 8-5-24	Date/Time: 10:30	Received by/Company: (Signature) Nicely's Del. Service 8-5-24	Date/Time: 19:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 3

Page 90 of 94

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Kenron Environmental Services, Inc.	Billing Information:
Address: 108 Cracklock Way, Suite J, Dover, DW	
Report To: Alexis Clarke	Email To: aclarke@kenron.com
Copy To: Evan Amick	Site Collection Info/Address: GVMC / Bonneville, WV
Customer Project Name/Number: WV 1966	State: WV / County/City: Greenbrier / Ronceverte Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-750-0429 Email: aclarke@kenron.com	Site/Facility ID #: GVMC
Collected By (print): Evan Amick	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No	
DW PWS ID #: DW Location Code:	
Immediately Packed on Ice: [ ] Yes [ ] No	
Field Filtered (if applicable): [ ] Yes [ ] No Analysis: _____	

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Container Preservative Type ** | Lab Project Manager:

Analyses

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Total RCRA Mtls 6010
GVMC-SS-12(1-2)-01-1025MS	SL	Grab	8/1/24	1520					X	X	X	X
GVMC-SS-12(1-2)-01-1025MSD	SL	Grab	8/1/24	1520					X	X	X	X
GVMC-SB-12(7-8)-01-1027				1530					X	X	X	X
GVMC-SB-12(7-8)-02-1028				1530					X	X	X	X
GVMC-SB-12(7-8)-01-1027MS				1530					X	X	X	X
GVMC-SB-12(7-8)-01-1027MSD				1530					X	X	X	X
GVMC-SS-13(1-2)-01-1031			8/2/24	940					X	X	X	X
GVMC-SB-13(7-8)-01-1032				945					X	X	X	X
GVMC-SS-14(1-2)-01-1033				1100					X	X	X	X
GVMC-SB-14(7-8)-01-1034				1110					X	X	X	X

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949275

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 1.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time: 8/2/24 1145	Received by/Company: (Signature)	Date/Time: 8/2/24 1145
Relinquished by/Company: (Signature) Kenron	Date/Time: 8/2/24 1400	Received by/Company: (Signature)	Date/Time: 1400
Relinquished by/Company: (Signature) 8-5-24	Date/Time: 10:30	Received by/Company: (Signature) Nicely's Del. Service 8-5-24	Date/Time: 1900

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: KEARON Environmental Srvs., Inc	Billing Information:
Address: 108 Cresddock Way, Suite 5, Pocc, WV	
Report To: Abde Acabar	Email To: acabar@kearon.com
Copy To: Evan Jewett	Site Collection Info/Address: GVMC Morgantown, WV
Customer Project Name/Number: WV1960	State: WV / County/City: Greenbrier / Morgantown Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0629 Email: acabar@kearon.com	Site/Facility ID #: GVMC
Collected By (print): Evan Jewett	Purchase Order #: Quote #:
Collected By (Signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)
	Compliance Monitoring? [ ] Yes [ ] No
	DW PWS ID #: DW Location Code:
	Immediately Packed on Ice: [ ] Yes [ ] No
	Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Total RNA MEMS Gen O	
GVMC-EB-i-01-1029	Water	Grab	8/1/24	1610					X	X	X	X	
GVMC-EB-2-01-1030	↓	↓	8/2/24	930					X	X	X	X	
* Trip Blank								3	X				

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2949276

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 1.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 1.2 oC
Comments:
* Percont. 2c 8/2/24

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Relinquished by/Company: (Signature)	Date/Time: 8/4/24 1145	Received by/Company: (Signature)	Date/Time: 8/2/24 1145
Relinquished by/Company: (Signature)	Date/Time: 8/2/24 1400	Received by/Company: (Signature)	Date/Time: 1400
Relinquished by/Company: (Signature) 8-5-24	Date/Time: 1030	Received by/Company: (Signature) Nicely's Del. Service 8-5-24	Date/Time: 1900

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Non Conformance(s): YES / NO

Page: 3 of: 3

F-GV-S-002-Rev.02 94

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

30705771

Scan QR Code for Instructions

Company Name:	Contact/Report To:
Street Address:	Phone #:
	E-Mail:
	Cc E-Mail:
Customer Project #:	Invoice to:
Project Name:	Invoice E-mail:
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET	County / State origin of sample(s):
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other_____	Regulatory Program (DW, RCRA, etc.) as applicable:
	Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
	Date Results Requested:
	DW PWSID # or WW Permit # as applicable:
	Field Filtered (if applicable): [ ] Yes [ ] No
	Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: / AcctNum / Client ID: / Table #: / Profile / Template: / Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	Sample Comment

Received by Pace Greensburg
Therm ID 17 Corr Factor +/- -0.3
Receipt Temp 2.9
Corrected Temp 2.6
Correct Preservation - Y/N
Res. Chlorine - Y/N - Lot#
Rad Samples Screened <0.05 mrem/hr Y/N
Survey Meter 25043580

Customer Remarks / Special Conditions / Possible Hazards:

Collected By:
Printed Name
Signature

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Nicely's Del. Service	8/5/24 23:00		8/5/24 23:00	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

DW 8/5/24

4 of 4

WO#: 30705771

PM: BAA Due Date: 08/14/24
CLIENT: BV-KEENPOCA

LIMS30 Lab Sample Condition Upon Receipt (West Virgin

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ 3rd Party Courier ☐ Pace ☐

Tracking #:

Custody Seal on Cooler/Box/Containers Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used M26 **Type of Ice:** (Wet) Blue None

Cooler Temperature **Observed Temp** 1.2 °C Correction Factor: 0 °C Final Temp: 1.2 °C

Thermal Preservation Requirement Met Yes ☑ No ☐

pH paper Lot#	Date and Initials of person examining contents: JC 8-2-24

	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:		✓		2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT SL	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous sample field filtered:			✓	13.
-pH adjusted within 24 hours? (If yes, indicate acid lot #)			✓	
Filtered volume received for Dissolved tests:			✓	14.
All containers have been checked for chemical preservation:	✓			15.
exceptions: VOA, coliform, O&G, LLMercury, Non-aqueous matrix				
All containers meet method/chemical preservation requirements:	✓			Initial when completed JC Date: 8-2-24
				Tests not preserved:
Headspace in VOA Vials:	✓			16. HS in trip blank
Trip Blank Present:	✓			17.
				Initial when completed: JC Date: 8-2-24

Comments:

*PM review is documented electronically in LIMS, when the Project Manager closes the SRF Review schedule in LIMS. The status may be reviewed in the Status section of the Workorder Edit Screen.

Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

August 23, 2024

Mr. TERRY WILFONG
KEMRON ENVIRONMENTAL / POCA
108 CRADDOCK WAY
SUITE 5
Poca, WV 251597606

RE: Project: GVMC / WV 1966
Pace Project No.: 30709771

Dear Mr. WILFONG:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

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

Sincerely,

Bobby Adams
bobby.adams@pacelabs.com
(800)999-0105
Project Manager

Enclosures

cc: Mr. Evan Amick, KEMRON ENVIRONMENTAL / POCA
Ms. Crystal Cain, Kemron Environmental
Ms. Rawa Fleisher, Kemron Environmental
Ms. Terry Fondren, KEMRON ENVIRONMENTAL / POCA
Mr. Chris Hedrick, Kemron Environmental Services
Mr. Chris Jackson, KEMRON ENVIRONMENTAL / POCA
Mr. Alex Sweet, Kemron Environmental

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

CERTIFICATIONS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Beaver

225 Industrial Park Road, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE SUMMARY

Project: GVMC / WV 1966
Pace Project No.: 30709771

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30709771001	**GVMC -SS-15(1-2)-01-1035**	Solid	08/06/24 09:20	08/15/24 16:20
30709771002	**GVMC -SB-15(7-8)-01-1036**	Solid	08/06/24 09:20	08/15/24 16:20

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GVMC / WV 1966
Pace Project No.: 30709771

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30709771001	**GVMC -SS-15(1-2)-01-1035**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA
30709771002	**GVMC -SB-15(7-8)-01-1036**	EPA 6010D	AGB	7	PASI-BV
		EPA 7471B	JLH1	1	PASI-BV
		EPA 8270E by SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	74	PASI-PA
		EPA 8260D	EG	52	PASI-PA
		SM 2540G-2015	AJG	1	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SS-15(1-2)-01-1035 **Lab ID: 30709771001** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**15.2**	mg/kg	5.6	0.39	1	08/21/24 08:19	08/23/24 10:43	7440-38-2	
Barium	**45.5**	mg/kg	5.6	0.41	1	08/21/24 08:19	08/23/24 10:43	7440-39-3	
Cadmium	ND	mg/kg	1.1	0.16	1	08/21/24 08:19	08/23/24 10:43	7440-43-9	
Chromium	**45.2**	mg/kg	5.6	0.71	1	08/21/24 08:19	08/23/24 10:43	7440-47-3	
Lead	**30.8**	mg/kg	5.6	0.58	1	08/21/24 08:19	08/23/24 10:43	7439-92-1	
Selenium	**1.6J**	mg/kg	5.6	1.1	1	08/21/24 08:19	08/23/24 10:43	7782-49-2	
Silver	ND	mg/kg	2.8	0.40	1	08/21/24 08:19	08/23/24 10:43	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.091**	mg/kg	0.023	0.022	1	08/19/24 12:14	08/20/24 09:11	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	7.5	2.0	1	08/20/24 10:21	08/21/24 17:07	83-32-9	
Acenaphthylene	ND	ug/kg	7.5	1.6	1	08/20/24 10:21	08/21/24 17:07	208-96-8	
Anthracene	ND	ug/kg	7.5	1.5	1	08/20/24 10:21	08/21/24 17:07	120-12-7	
Benzo(a)anthracene	**2.3J**	ug/kg	7.5	2.0	1	08/20/24 10:21	08/21/24 17:07	56-55-3	
Benzo(a)pyrene	ND	ug/kg	7.5	3.3	1	08/20/24 10:21	08/21/24 17:07	50-32-8	
Benzo(b)fluoranthene	**6.3J**	ug/kg	7.5	2.2	1	08/20/24 10:21	08/21/24 17:07	205-99-2	Ip
Benzo(g,h,i)perylene	ND	ug/kg	7.5	1.1	1	08/20/24 10:21	08/21/24 17:07	191-24-2	
Benzo(k)fluoranthene	**5.8J**	ug/kg	7.5	1.3	1	08/20/24 10:21	08/21/24 17:07	207-08-9	Ip
Chrysene	**3.1J**	ug/kg	7.5	1.2	1	08/20/24 10:21	08/21/24 17:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	7.5	1.5	1	08/20/24 10:21	08/21/24 17:07	53-70-3	
Fluoranthene	**5.6J**	ug/kg	7.5	5.1	1	08/20/24 10:21	08/21/24 17:07	206-44-0	
Fluorene	ND	ug/kg	15.0	7.8	1	08/20/24 10:21	08/21/24 17:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	7.5	2.9	1	08/20/24 10:21	08/21/24 17:07	193-39-5	
Naphthalene	ND	ug/kg	7.5	3.2	1	08/20/24 10:21	08/21/24 17:07	91-20-3	
Phenanthrene	ND	ug/kg	15.0	4.5	1	08/20/24 10:21	08/21/24 17:07	85-01-8	
Pyrene	ND	ug/kg	7.5	6.6	1	08/20/24 10:21	08/21/24 17:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	76	%.	46-99		1	08/20/24 10:21	08/21/24 17:07	321-60-8	
Terphenyl-d14 (S)	84	%.	48-118		1	08/20/24 10:21	08/21/24 17:07	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	369	54.8	1	08/20/24 10:23	08/20/24 17:16	83-32-9	
Acenaphthylene	ND	ug/kg	369	111	1	08/20/24 10:23	08/20/24 17:16	208-96-8	
Anthracene	ND	ug/kg	369	84.7	1	08/20/24 10:23	08/20/24 17:16	120-12-7	
Azobenzene	ND	ug/kg	369	130	1	08/20/24 10:23	08/20/24 17:16	103-33-3	
Benzo(a)anthracene	ND	ug/kg	369	63.9	1	08/20/24 10:23	08/20/24 17:16	56-55-3	
Benzo(a)pyrene	ND	ug/kg	369	115	1	08/20/24 10:23	08/20/24 17:16	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	369	112	1	08/20/24 10:23	08/20/24 17:16	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	369	128	1	08/20/24 10:23	08/20/24 17:16	191-24-2	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SS-15(1-2)-01-1035 **Lab ID: 30709771001** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	369	163	1	08/20/24 10:23	08/20/24 17:16	207-08-9	
Benzoic acid	ND	ug/kg	5530	1870	1	08/20/24 10:23	08/20/24 17:16	65-85-0	CH
Benzyl alcohol	ND	ug/kg	369	326	1	08/20/24 10:23	08/20/24 17:16	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	369	136	1	08/20/24 10:23	08/20/24 17:16	101-55-3	
Butylbenzylphthalate	ND	ug/kg	369	104	1	08/20/24 10:23	08/20/24 17:16	85-68-7	
Carbazole	ND	ug/kg	369	145	1	08/20/24 10:23	08/20/24 17:16	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	369	59.4	1	08/20/24 10:23	08/20/24 17:16	59-50-7	
4-Chloroaniline	ND	ug/kg	369	64.9	1	08/20/24 10:23	08/20/24 17:16	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	369	64.1	1	08/20/24 10:23	08/20/24 17:16	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	369	67.3	1	08/20/24 10:23	08/20/24 17:16	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	369	105	1	08/20/24 10:23	08/20/24 17:16	108-60-1	
2-Chloronaphthalene	ND	ug/kg	369	105	1	08/20/24 10:23	08/20/24 17:16	91-58-7	
2-Chlorophenol	ND	ug/kg	369	52.6	1	08/20/24 10:23	08/20/24 17:16	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	369	107	1	08/20/24 10:23	08/20/24 17:16	7005-72-3	
Chrysene	ND	ug/kg	369	54.7	1	08/20/24 10:23	08/20/24 17:16	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	369	140	1	08/20/24 10:23	08/20/24 17:16	53-70-3	
Dibenzofuran	ND	ug/kg	369	118	1	08/20/24 10:23	08/20/24 17:16	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	369	48.5	1	08/20/24 10:23	08/20/24 17:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	369	45.9	1	08/20/24 10:23	08/20/24 17:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	369	51.0	1	08/20/24 10:23	08/20/24 17:16	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	369	108	1	08/20/24 10:23	08/20/24 17:16	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	369	62.6	1	08/20/24 10:23	08/20/24 17:16	120-83-2	
Diethylphthalate	ND	ug/kg	369	130	1	08/20/24 10:23	08/20/24 17:16	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	369	112	1	08/20/24 10:23	08/20/24 17:16	105-67-9	
Dimethylphthalate	ND	ug/kg	369	114	1	08/20/24 10:23	08/20/24 17:16	131-11-3	
Di-n-butylphthalate	ND	ug/kg	2950	2700	1	08/20/24 10:23	08/20/24 17:16	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	923	275	1	08/20/24 10:23	08/20/24 17:16	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	923	829	1	08/20/24 10:23	08/20/24 17:16	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	369	112	1	08/20/24 10:23	08/20/24 17:16	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	369	112	1	08/20/24 10:23	08/20/24 17:16	606-20-2	
Di-n-octylphthalate	ND	ug/kg	369	243	1	08/20/24 10:23	08/20/24 17:16	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	369	118	1	08/20/24 10:23	08/20/24 17:16	117-81-7	
Fluoranthene	ND	ug/kg	369	119	1	08/20/24 10:23	08/20/24 17:16	206-44-0	
Fluorene	ND	ug/kg	369	113	1	08/20/24 10:23	08/20/24 17:16	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	369	57.8	1	08/20/24 10:23	08/20/24 17:16	87-68-3	
Hexachlorobenzene	ND	ug/kg	369	106	1	08/20/24 10:23	08/20/24 17:16	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	369	178	1	08/20/24 10:23	08/20/24 17:16	77-47-4	L2
Hexachloroethane	ND	ug/kg	369	99.6	1	08/20/24 10:23	08/20/24 17:16	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	369	139	1	08/20/24 10:23	08/20/24 17:16	193-39-5	
Isophorone	ND	ug/kg	369	53.3	1	08/20/24 10:23	08/20/24 17:16	78-59-1	
1-Methylnaphthalene	ND	ug/kg	369	92.7	1	08/20/24 10:23	08/20/24 17:16	90-12-0	
2-Methylnaphthalene	ND	ug/kg	369	54.0	1	08/20/24 10:23	08/20/24 17:16	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	369	133	1	08/20/24 10:23	08/20/24 17:16	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	738	227	1	08/20/24 10:23	08/20/24 17:16		

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SS-15(1-2)-01-1035 **Lab ID: 30709771001** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	923	128	1	08/20/24 10:23	08/20/24 17:16	88-74-4	
3-Nitroaniline	ND	ug/kg	923	241	1	08/20/24 10:23	08/20/24 17:16	99-09-2	
4-Nitroaniline	ND	ug/kg	923	518	1	08/20/24 10:23	08/20/24 17:16	100-01-6	CL
Nitrobenzene	ND	ug/kg	369	53.0	1	08/20/24 10:23	08/20/24 17:16	98-95-3	
2-Nitrophenol	ND	ug/kg	369	69.1	1	08/20/24 10:23	08/20/24 17:16	88-75-5	
4-Nitrophenol	ND	ug/kg	369	124	1	08/20/24 10:23	08/20/24 17:16	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	369	63.3	1	08/20/24 10:23	08/20/24 17:16	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	369	64.9	1	08/20/24 10:23	08/20/24 17:16	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	369	83.2	1	08/20/24 10:23	08/20/24 17:16	86-30-6	
Pentachlorophenol	ND	ug/kg	923	486	1	08/20/24 10:23	08/20/24 17:16	87-86-5	
Phenanthrene	ND	ug/kg	369	66.9	1	08/20/24 10:23	08/20/24 17:16	85-01-8	
Phenol	ND	ug/kg	369	109	1	08/20/24 10:23	08/20/24 17:16	108-95-2	
Pyrene	ND	ug/kg	369	135	1	08/20/24 10:23	08/20/24 17:16	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	369	99.8	1	08/20/24 10:23	08/20/24 17:16	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	923	109	1	08/20/24 10:23	08/20/24 17:16	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	369	96.4	1	08/20/24 10:23	08/20/24 17:16	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	81	%.	32-154		1	08/20/24 10:23	08/20/24 17:16	4165-60-0	
2-Fluorobiphenyl (S)	83	%.	50-144		1	08/20/24 10:23	08/20/24 17:16	321-60-8	
Terphenyl-d14 (S)	91	%.	57-146		1	08/20/24 10:23	08/20/24 17:16	1718-51-0	
Phenol-d6 (S)	86	%.	54-121		1	08/20/24 10:23	08/20/24 17:16	13127-88-3	
2-Fluorophenol (S)	86	%.	57-124		1	08/20/24 10:23	08/20/24 17:16	367-12-4	
2,4,6-Tribromophenol (S)	93	%.	44-127		1	08/20/24 10:23	08/20/24 17:16	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**276**	ug/kg	47.1	31.7	1	08/16/24 15:04	08/16/24 21:45	67-64-1	1c,CL
Benzene	ND	ug/kg	4.7	0.82	1	08/16/24 15:04	08/16/24 21:45	71-43-2	1c
Bromochloromethane	ND	ug/kg	4.7	1.0	1	08/16/24 15:04	08/16/24 21:45	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.7	1.0	1	08/16/24 15:04	08/16/24 21:45	75-27-4	1c
Bromoform	ND	ug/kg	4.7	1.9	1	08/16/24 15:04	08/16/24 21:45	75-25-2	1c
Bromomethane	ND	ug/kg	4.7	1.8	1	08/16/24 15:04	08/16/24 21:45	74-83-9	1c,2c
TOTAL BTEX	ND	ug/kg	28.3	5.8	1	08/16/24 15:04	08/16/24 21:45		
2-Butanone (MEK)	**27.9**	ug/kg	9.4	2.5	1	08/16/24 15:04	08/16/24 21:45	78-93-3	1c
Carbon disulfide	ND	ug/kg	4.7	1.3	1	08/16/24 15:04	08/16/24 21:45	75-15-0	1c,CL
Carbon tetrachloride	ND	ug/kg	4.7	1.6	1	08/16/24 15:04	08/16/24 21:45	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.7	0.74	1	08/16/24 15:04	08/16/24 21:45	108-90-7	1c
Chloroethane	ND	ug/kg	4.7	2.0	1	08/16/24 15:04	08/16/24 21:45	75-00-3	1c
Chloroform	ND	ug/kg	4.7	1.4	1	08/16/24 15:04	08/16/24 21:45	67-66-3	1c
Chloromethane	ND	ug/kg	4.7	1.6	1	08/16/24 15:04	08/16/24 21:45	74-87-3	1c
Dibromochloromethane	ND	ug/kg	4.7	0.74	1	08/16/24 15:04	08/16/24 21:45	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	4.7	0.56	1	08/16/24 15:04	08/16/24 21:45	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.7	0.61	1	08/16/24 15:04	08/16/24 21:45	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.7	0.67	1	08/16/24 15:04	08/16/24 21:45	106-46-7	1c

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SS-15(1-2)-01-1035 **Lab ID: 30709771001** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.7	1.2	1	08/16/24 15:04	08/16/24 21:45	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.7	1.2	1	08/16/24 15:04	08/16/24 21:45	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	9.4	2.3	1	08/16/24 15:04	08/16/24 21:45	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.7	1.8	1	08/16/24 15:04	08/16/24 21:45	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.7	1.1	1	08/16/24 15:04	08/16/24 21:45	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.7	1.2	1	08/16/24 15:04	08/16/24 21:45	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	4.7	0.68	1	08/16/24 15:04	08/16/24 21:45	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.7	0.47	1	08/16/24 15:04	08/16/24 21:45	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.7	0.98	1	08/16/24 15:04	08/16/24 21:45	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.7	1.0	1	08/16/24 15:04	08/16/24 21:45	100-41-4	1c
2-Hexanone	ND	ug/kg	9.4	2.2	1	08/16/24 15:04	08/16/24 21:45	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.7	1.1	1	08/16/24 15:04	08/16/24 21:45	98-82-8	1c
Methylene Chloride	ND	ug/kg	4.7	3.9	1	08/16/24 15:04	08/16/24 21:45	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.4	1.1	1	08/16/24 15:04	08/16/24 21:45	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.7	0.63	1	08/16/24 15:04	08/16/24 21:45	1634-04-4	1c
Naphthalene	ND	ug/kg	4.7	3.7	1	08/16/24 15:04	08/16/24 21:45	91-20-3	1c
Styrene	ND	ug/kg	4.7	1.4	1	08/16/24 15:04	08/16/24 21:45	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.7	0.56	1	08/16/24 15:04	08/16/24 21:45	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.7	1.6	1	08/16/24 15:04	08/16/24 21:45	127-18-4	1c
Toluene	ND	ug/kg	4.7	0.93	1	08/16/24 15:04	08/16/24 21:45	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.7	1.9	1	08/16/24 15:04	08/16/24 21:45	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.7	1.4	1	08/16/24 15:04	08/16/24 21:45	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.7	0.93	1	08/16/24 15:04	08/16/24 21:45	79-00-5	1c
Trichloroethene	ND	ug/kg	4.7	1.4	1	08/16/24 15:04	08/16/24 21:45	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.7	2.3	1	08/16/24 15:04	08/16/24 21:45	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.7	1.9	1	08/16/24 15:04	08/16/24 21:45	108-67-8	1c
Vinyl chloride	ND	ug/kg	4.7	2.0	1	08/16/24 15:04	08/16/24 21:45	75-01-4	1c
Xylene (Total)	ND	ug/kg	14.1	6.4	1	08/16/24 15:04	08/16/24 21:45	1330-20-7	
m&p-Xylene	ND	ug/kg	9.4	5.4	1	08/16/24 15:04	08/16/24 21:45	179601-23-1	1c
o-Xylene	ND	ug/kg	4.7	1.0	1	08/16/24 15:04	08/16/24 21:45	95-47-6	1c
Surrogates									
Toluene-d8 (S)	97	%.	70-130		1	08/16/24 15:04	08/16/24 21:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130		1	08/16/24 15:04	08/16/24 21:45	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%.	70-130		1	08/16/24 15:04	08/16/24 21:45	17060-07-0	
Dibromofluoromethane (S)	96	%.	70-130		1	08/16/24 15:04	08/16/24 21:45	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**12.0**	%	0.10	0.10	1		08/20/24 15:42		H3

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SB-15(7-8)-01-1036 **Lab ID: 30709771002** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D MET ICP,Solid,3050B	Analytical Method: EPA 6010D Preparation Method: EPA 3050B Pace Analytical Services - Beaver								
Arsenic	**8.6**	mg/kg	6.0	0.42	1	08/21/24 08:19	08/23/24 10:45	7440-38-2	
Barium	**74.0**	mg/kg	6.0	0.44	1	08/21/24 08:19	08/23/24 10:45	7440-39-3	
Cadmium	ND	mg/kg	1.2	0.17	1	08/21/24 08:19	08/23/24 10:45	7440-43-9	
Chromium	**24.8**	mg/kg	6.0	0.76	1	08/21/24 08:19	08/23/24 10:45	7440-47-3	
Lead	**19.1**	mg/kg	6.0	0.62	1	08/21/24 08:19	08/23/24 10:45	7439-92-1	
Selenium	**1.6J**	mg/kg	6.0	1.2	1	08/21/24 08:19	08/23/24 10:45	7782-49-2	
Silver	ND	mg/kg	3.0	0.43	1	08/21/24 08:19	08/23/24 10:45	7440-22-4	
BVR 7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B Pace Analytical Services - Beaver								
Mercury	**0.023J**	mg/kg	0.024	0.023	1	08/19/24 12:14	08/20/24 09:18	7439-97-6	
8270E MSSV PAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	8.0	2.1	1	08/20/24 10:21	08/21/24 17:27	83-32-9	
Acenaphthylene	ND	ug/kg	8.0	1.6	1	08/20/24 10:21	08/21/24 17:27	208-96-8	
Anthracene	**3.8J**	ug/kg	8.0	1.6	1	08/20/24 10:21	08/21/24 17:27	120-12-7	
Benzo(a)anthracene	**14.6**	ug/kg	8.0	2.1	1	08/20/24 10:21	08/21/24 17:27	56-55-3	
Benzo(a)pyrene	**13.1**	ug/kg	8.0	3.5	1	08/20/24 10:21	08/21/24 17:27	50-32-8	
Benzo(b)fluoranthene	**29.6**	ug/kg	8.0	2.3	1	08/20/24 10:21	08/21/24 17:27	205-99-2	lp
Benzo(g,h,i)perylene	**7.5J**	ug/kg	8.0	1.2	1	08/20/24 10:21	08/21/24 17:27	191-24-2	
Benzo(k)fluoranthene	**27.3**	ug/kg	8.0	1.3	1	08/20/24 10:21	08/21/24 17:27	207-08-9	lp
Chrysene	**15.0**	ug/kg	8.0	1.3	1	08/20/24 10:21	08/21/24 17:27	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	8.0	1.6	1	08/20/24 10:21	08/21/24 17:27	53-70-3	
Fluoranthene	**30.1**	ug/kg	8.0	5.4	1	08/20/24 10:21	08/21/24 17:27	206-44-0	
Fluorene	ND	ug/kg	16.0	8.3	1	08/20/24 10:21	08/21/24 17:27	86-73-7	
Indeno(1,2,3-cd)pyrene	**6.1J**	ug/kg	8.0	3.1	1	08/20/24 10:21	08/21/24 17:27	193-39-5	
Naphthalene	ND	ug/kg	8.0	3.4	1	08/20/24 10:21	08/21/24 17:27	91-20-3	
Phenanthrene	**19.7**	ug/kg	16.0	4.8	1	08/20/24 10:21	08/21/24 17:27	85-01-8	
Pyrene	**26.8**	ug/kg	8.0	7.0	1	08/20/24 10:21	08/21/24 17:27	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%.	46-99		1	08/20/24 10:21	08/21/24 17:27	321-60-8	
Terphenyl-d14 (S)	75	%.	48-118		1	08/20/24 10:21	08/21/24 17:27	1718-51-0	
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/kg	395	58.6	1	08/20/24 10:23	08/20/24 17:38	83-32-9	
Acenaphthylene	ND	ug/kg	395	118	1	08/20/24 10:23	08/20/24 17:38	208-96-8	
Anthracene	ND	ug/kg	395	90.6	1	08/20/24 10:23	08/20/24 17:38	120-12-7	
Azobenzene	ND	ug/kg	395	139	1	08/20/24 10:23	08/20/24 17:38	103-33-3	
Benzo(a)anthracene	ND	ug/kg	395	68.3	1	08/20/24 10:23	08/20/24 17:38	56-55-3	
Benzo(a)pyrene	ND	ug/kg	395	123	1	08/20/24 10:23	08/20/24 17:38	50-32-8	
Benzo(b)fluoranthene	ND	ug/kg	395	120	1	08/20/24 10:23	08/20/24 17:38	205-99-2	
Benzo(g,h,i)perylene	ND	ug/kg	395	137	1	08/20/24 10:23	08/20/24 17:38	191-24-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SB-15(7-8)-01-1036 **Lab ID: 30709771002** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
Benzo(k)fluoranthene	ND	ug/kg	395	174	1	08/20/24 10:23	08/20/24 17:38	207-08-9	
Benzoic acid	ND	ug/kg	5920	2000	1	08/20/24 10:23	08/20/24 17:38	65-85-0	CH
Benzyl alcohol	ND	ug/kg	395	349	1	08/20/24 10:23	08/20/24 17:38	100-51-6	
4-Bromophenylphenyl ether	ND	ug/kg	395	145	1	08/20/24 10:23	08/20/24 17:38	101-55-3	
Butylbenzylphthalate	ND	ug/kg	395	111	1	08/20/24 10:23	08/20/24 17:38	85-68-7	
Carbazole	ND	ug/kg	395	155	1	08/20/24 10:23	08/20/24 17:38	86-74-8	
4-Chloro-3-methylphenol	ND	ug/kg	395	63.5	1	08/20/24 10:23	08/20/24 17:38	59-50-7	
4-Chloroaniline	ND	ug/kg	395	69.4	1	08/20/24 10:23	08/20/24 17:38	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/kg	395	68.6	1	08/20/24 10:23	08/20/24 17:38	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/kg	395	72.0	1	08/20/24 10:23	08/20/24 17:38	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/kg	395	112	1	08/20/24 10:23	08/20/24 17:38	108-60-1	
2-Chloronaphthalene	ND	ug/kg	395	113	1	08/20/24 10:23	08/20/24 17:38	91-58-7	
2-Chlorophenol	ND	ug/kg	395	56.3	1	08/20/24 10:23	08/20/24 17:38	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/kg	395	114	1	08/20/24 10:23	08/20/24 17:38	7005-72-3	
Chrysene	ND	ug/kg	395	58.5	1	08/20/24 10:23	08/20/24 17:38	218-01-9	
Dibenz(a,h)anthracene	ND	ug/kg	395	150	1	08/20/24 10:23	08/20/24 17:38	53-70-3	
Dibenzofuran	ND	ug/kg	395	127	1	08/20/24 10:23	08/20/24 17:38	132-64-9	
1,2-Dichlorobenzene	ND	ug/kg	395	51.9	1	08/20/24 10:23	08/20/24 17:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/kg	395	49.1	1	08/20/24 10:23	08/20/24 17:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/kg	395	54.5	1	08/20/24 10:23	08/20/24 17:38	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/kg	395	116	1	08/20/24 10:23	08/20/24 17:38	91-94-1	
2,4-Dichlorophenol	ND	ug/kg	395	67.0	1	08/20/24 10:23	08/20/24 17:38	120-83-2	
Diethylphthalate	ND	ug/kg	395	139	1	08/20/24 10:23	08/20/24 17:38	84-66-2	
2,4-Dimethylphenol	ND	ug/kg	395	120	1	08/20/24 10:23	08/20/24 17:38	105-67-9	
Dimethylphthalate	ND	ug/kg	395	122	1	08/20/24 10:23	08/20/24 17:38	131-11-3	
Di-n-butylphthalate	ND	ug/kg	3160	2890	1	08/20/24 10:23	08/20/24 17:38	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/kg	987	294	1	08/20/24 10:23	08/20/24 17:38	534-52-1	
2,4-Dinitrophenol	ND	ug/kg	987	887	1	08/20/24 10:23	08/20/24 17:38	51-28-5	
2,4-Dinitrotoluene	ND	ug/kg	395	120	1	08/20/24 10:23	08/20/24 17:38	121-14-2	
2,6-Dinitrotoluene	ND	ug/kg	395	120	1	08/20/24 10:23	08/20/24 17:38	606-20-2	
Di-n-octylphthalate	ND	ug/kg	395	260	1	08/20/24 10:23	08/20/24 17:38	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/kg	395	126	1	08/20/24 10:23	08/20/24 17:38	117-81-7	
Fluoranthene	ND	ug/kg	395	127	1	08/20/24 10:23	08/20/24 17:38	206-44-0	
Fluorene	ND	ug/kg	395	121	1	08/20/24 10:23	08/20/24 17:38	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/kg	395	61.9	1	08/20/24 10:23	08/20/24 17:38	87-68-3	
Hexachlorobenzene	ND	ug/kg	395	113	1	08/20/24 10:23	08/20/24 17:38	118-74-1	
Hexachlorocyclopentadiene	ND	ug/kg	395	190	1	08/20/24 10:23	08/20/24 17:38	77-47-4	L2
Hexachloroethane	ND	ug/kg	395	107	1	08/20/24 10:23	08/20/24 17:38	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/kg	395	148	1	08/20/24 10:23	08/20/24 17:38	193-39-5	
Isophorone	ND	ug/kg	395	57.0	1	08/20/24 10:23	08/20/24 17:38	78-59-1	
1-Methylnaphthalene	ND	ug/kg	395	99.2	1	08/20/24 10:23	08/20/24 17:38	90-12-0	
2-Methylnaphthalene	ND	ug/kg	395	57.7	1	08/20/24 10:23	08/20/24 17:38	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/kg	395	142	1	08/20/24 10:23	08/20/24 17:38	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/kg	789	242	1	08/20/24 10:23	08/20/24 17:38		

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ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SB-15(7-8)-01-1036 **Lab ID: 30709771002** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV Microwave	Analytical Method: EPA 8270E Preparation Method: EPA 3546 Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/kg	987	137	1	08/20/24 10:23	08/20/24 17:38	88-74-4	
3-Nitroaniline	ND	ug/kg	987	258	1	08/20/24 10:23	08/20/24 17:38	99-09-2	
4-Nitroaniline	ND	ug/kg	987	554	1	08/20/24 10:23	08/20/24 17:38	100-01-6	CL
Nitrobenzene	ND	ug/kg	395	56.7	1	08/20/24 10:23	08/20/24 17:38	98-95-3	
2-Nitrophenol	ND	ug/kg	395	73.9	1	08/20/24 10:23	08/20/24 17:38	88-75-5	
4-Nitrophenol	ND	ug/kg	395	133	1	08/20/24 10:23	08/20/24 17:38	100-02-7	
N-Nitrosodimethylamine	ND	ug/kg	395	67.6	1	08/20/24 10:23	08/20/24 17:38	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/kg	395	69.4	1	08/20/24 10:23	08/20/24 17:38	621-64-7	
N-Nitrosodiphenylamine	ND	ug/kg	395	89.0	1	08/20/24 10:23	08/20/24 17:38	86-30-6	
Pentachlorophenol	ND	ug/kg	987	520	1	08/20/24 10:23	08/20/24 17:38	87-86-5	
Phenanthrene	ND	ug/kg	395	71.6	1	08/20/24 10:23	08/20/24 17:38	85-01-8	
Phenol	ND	ug/kg	395	117	1	08/20/24 10:23	08/20/24 17:38	108-95-2	
Pyrene	ND	ug/kg	395	144	1	08/20/24 10:23	08/20/24 17:38	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/kg	395	107	1	08/20/24 10:23	08/20/24 17:38	120-82-1	
2,4,5-Trichlorophenol	ND	ug/kg	987	117	1	08/20/24 10:23	08/20/24 17:38	95-95-4	
2,4,6-Trichlorophenol	ND	ug/kg	395	103	1	08/20/24 10:23	08/20/24 17:38	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	74	%.	32-154		1	08/20/24 10:23	08/20/24 17:38	4165-60-0	
2-Fluorobiphenyl (S)	80	%.	50-144		1	08/20/24 10:23	08/20/24 17:38	321-60-8	
Terphenyl-d14 (S)	88	%.	57-146		1	08/20/24 10:23	08/20/24 17:38	1718-51-0	
Phenol-d6 (S)	84	%.	54-121		1	08/20/24 10:23	08/20/24 17:38	13127-88-3	
2-Fluorophenol (S)	86	%.	57-124		1	08/20/24 10:23	08/20/24 17:38	367-12-4	
2,4,6-Tribromophenol (S)	92	%.	44-127		1	08/20/24 10:23	08/20/24 17:38	118-79-6	
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
Acetone	**205**	ug/kg	48.3	32.4	1	08/16/24 15:04	08/16/24 22:12	67-64-1	1c,CL
Benzene	ND	ug/kg	4.8	0.84	1	08/16/24 15:04	08/16/24 22:12	71-43-2	1c
Bromochloromethane	ND	ug/kg	4.8	1.1	1	08/16/24 15:04	08/16/24 22:12	74-97-5	1c
Bromodichloromethane	ND	ug/kg	4.8	1.1	1	08/16/24 15:04	08/16/24 22:12	75-27-4	1c
Bromoform	ND	ug/kg	4.8	2.0	1	08/16/24 15:04	08/16/24 22:12	75-25-2	1c
Bromomethane	ND	ug/kg	4.8	1.8	1	08/16/24 15:04	08/16/24 22:12	74-83-9	1c,2c
TOTAL BTEX	ND	ug/kg	29.0	5.9	1	08/16/24 15:04	08/16/24 22:12		
2-Butanone (MEK)	**27.4**	ug/kg	9.7	2.5	1	08/16/24 15:04	08/16/24 22:12	78-93-3	1c
Carbon disulfide	**27.6**	ug/kg	4.8	1.4	1	08/16/24 15:04	08/16/24 22:12	75-15-0	1c,CL
Carbon tetrachloride	ND	ug/kg	4.8	1.7	1	08/16/24 15:04	08/16/24 22:12	56-23-5	1c
Chlorobenzene	ND	ug/kg	4.8	0.75	1	08/16/24 15:04	08/16/24 22:12	108-90-7	1c
Chloroethane	ND	ug/kg	4.8	2.0	1	08/16/24 15:04	08/16/24 22:12	75-00-3	1c
Chloroform	ND	ug/kg	4.8	1.4	1	08/16/24 15:04	08/16/24 22:12	67-66-3	1c
Chloromethane	ND	ug/kg	4.8	1.6	1	08/16/24 15:04	08/16/24 22:12	74-87-3	1c
Dibromochloromethane	ND	ug/kg	4.8	0.76	1	08/16/24 15:04	08/16/24 22:12	124-48-1	1c
1,2-Dichlorobenzene	ND	ug/kg	4.8	0.57	1	08/16/24 15:04	08/16/24 22:12	95-50-1	1c
1,3-Dichlorobenzene	ND	ug/kg	4.8	0.63	1	08/16/24 15:04	08/16/24 22:12	541-73-1	1c
1,4-Dichlorobenzene	ND	ug/kg	4.8	0.69	1	08/16/24 15:04	08/16/24 22:12	106-46-7	1c

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC / WV 1966
Pace Project No.: 30709771

Sample: GVMC -SB-15(7-8)-01-1036 **Lab ID: 30709771002** Collected: 08/06/24 09:20 Received: 08/15/24 16:20 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV 5035 Low Level	Analytical Method: EPA 8260D Preparation Method: EPA 5035A Pace Analytical Services - Greensburg								
1,1-Dichloroethane	ND	ug/kg	4.8	1.2	1	08/16/24 15:04	08/16/24 22:12	75-34-3	1c
1,2-Dichloroethane	ND	ug/kg	4.8	1.2	1	08/16/24 15:04	08/16/24 22:12	107-06-2	1c
1,2-Dichloroethene (Total)	ND	ug/kg	9.7	2.3	1	08/16/24 15:04	08/16/24 22:12	540-59-0	
1,1-Dichloroethene	ND	ug/kg	4.8	1.8	1	08/16/24 15:04	08/16/24 22:12	75-35-4	1c
cis-1,2-Dichloroethene	ND	ug/kg	4.8	1.1	1	08/16/24 15:04	08/16/24 22:12	156-59-2	1c
trans-1,2-Dichloroethene	ND	ug/kg	4.8	1.2	1	08/16/24 15:04	08/16/24 22:12	156-60-5	1c
1,2-Dichloropropane	ND	ug/kg	4.8	0.69	1	08/16/24 15:04	08/16/24 22:12	78-87-5	1c
cis-1,3-Dichloropropene	ND	ug/kg	4.8	0.48	1	08/16/24 15:04	08/16/24 22:12	10061-01-5	1c
trans-1,3-Dichloropropene	ND	ug/kg	4.8	1.0	1	08/16/24 15:04	08/16/24 22:12	10061-02-6	1c
Ethylbenzene	ND	ug/kg	4.8	1.0	1	08/16/24 15:04	08/16/24 22:12	100-41-4	1c
2-Hexanone	**10.8**	ug/kg	9.7	2.2	1	08/16/24 15:04	08/16/24 22:12	591-78-6	1c
Isopropylbenzene (Cumene)	ND	ug/kg	4.8	1.1	1	08/16/24 15:04	08/16/24 22:12	98-82-8	1c
Methylene Chloride	ND	ug/kg	4.8	4.0	1	08/16/24 15:04	08/16/24 22:12	75-09-2	1c
4-Methyl-2-pentanone (MIBK)	ND	ug/kg	9.7	1.1	1	08/16/24 15:04	08/16/24 22:12	108-10-1	1c
Methyl-tert-butyl ether	ND	ug/kg	4.8	0.65	1	08/16/24 15:04	08/16/24 22:12	1634-04-4	1c
Naphthalene	ND	ug/kg	4.8	3.8	1	08/16/24 15:04	08/16/24 22:12	91-20-3	1c
Styrene	ND	ug/kg	4.8	1.4	1	08/16/24 15:04	08/16/24 22:12	100-42-5	1c
1,1,2,2-Tetrachloroethane	ND	ug/kg	4.8	0.57	1	08/16/24 15:04	08/16/24 22:12	79-34-5	1c
Tetrachloroethene	ND	ug/kg	4.8	1.7	1	08/16/24 15:04	08/16/24 22:12	127-18-4	1c
Toluene	ND	ug/kg	4.8	0.96	1	08/16/24 15:04	08/16/24 22:12	108-88-3	1c
1,2,4-Trichlorobenzene	ND	ug/kg	4.8	1.9	1	08/16/24 15:04	08/16/24 22:12	120-82-1	1c
1,1,1-Trichloroethane	ND	ug/kg	4.8	1.5	1	08/16/24 15:04	08/16/24 22:12	71-55-6	1c
1,1,2-Trichloroethane	ND	ug/kg	4.8	0.96	1	08/16/24 15:04	08/16/24 22:12	79-00-5	1c
Trichloroethene	ND	ug/kg	4.8	1.4	1	08/16/24 15:04	08/16/24 22:12	79-01-6	1c
1,2,4-Trimethylbenzene	ND	ug/kg	4.8	2.4	1	08/16/24 15:04	08/16/24 22:12	95-63-6	1c
1,3,5-Trimethylbenzene	ND	ug/kg	4.8	2.0	1	08/16/24 15:04	08/16/24 22:12	108-67-8	1c
Vinyl chloride	ND	ug/kg	4.8	2.0	1	08/16/24 15:04	08/16/24 22:12	75-01-4	1c
Xylene (Total)	ND	ug/kg	14.5	6.6	1	08/16/24 15:04	08/16/24 22:12	1330-20-7	
m&p-Xylene	ND	ug/kg	9.7	5.6	1	08/16/24 15:04	08/16/24 22:12	179601-23-1	1c
o-Xylene	ND	ug/kg	4.8	1.0	1	08/16/24 15:04	08/16/24 22:12	95-47-6	1c
Surrogates									
Toluene-d8 (S)	93	%.	70-130		1	08/16/24 15:04	08/16/24 22:12	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	70-130		1	08/16/24 15:04	08/16/24 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1	08/16/24 15:04	08/16/24 22:12	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130		1	08/16/24 15:04	08/16/24 22:12	1868-53-7	
Percent Moisture	Analytical Method: SM 2540G-2015 Pace Analytical Services - Greensburg								
Percent Moisture	**16.7**	%	0.10	0.10	1		08/20/24 15:42		H3

REPORT OF LABORATORY ANALYSIS

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Beaver, WV 25813
(800)999-0105

QUALIFIERS

Project: GVMC / WV 1966
Pace Project No.: 30709771

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 690021

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	The analyte did not meet the method recommended minimum RF.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
H3	Sample was received or analysis requested beyond the recognized method holding time.
Ip	Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria specified in the test method. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GVMC / WV 1966
Pace Project No.: 30709771

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30709771001	**GVMC -SS-15(1-2)-01-1035**	EPA 3050B	690758	EPA 6010D	691392
30709771002	**GVMC -SB-15(7-8)-01-1036**	EPA 3050B	690758	EPA 6010D	691392
30709771001	**GVMC -SS-15(1-2)-01-1035**	EPA 7471B	690252	EPA 7471B	690374
30709771002	**GVMC -SB-15(7-8)-01-1036**	EPA 7471B	690252	EPA 7471B	690374
30709771001	**GVMC -SS-15(1-2)-01-1035**	EPA 3546	690439	EPA 8270E by SIM	690681
30709771002	**GVMC -SB-15(7-8)-01-1036**	EPA 3546	690439	EPA 8270E by SIM	690681
30709771001	**GVMC -SS-15(1-2)-01-1035**	EPA 3546	690449	EPA 8270E	690639
30709771002	**GVMC -SB-15(7-8)-01-1036**	EPA 3546	690449	EPA 8270E	690639
30709771001	**GVMC -SS-15(1-2)-01-1035**	EPA 5035A	690021	EPA 8260D	690033
30709771002	**GVMC -SB-15(7-8)-01-1036**	EPA 5035A	690021	EPA 8260D	690033
30709771001	**GVMC -SS-15(1-2)-01-1035**	SM 2540G-2015	690472		
30709771002	**GVMC -SB-15(7-8)-01-1036**	SM 2540G-2015	690472		

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CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or

WO# : 30709771

30709771

Company: KEMRON Environmental Svcs., Inc.	Billing Information:
Address: 1prospect Crossing, Suite 5, Parkersburg, WV	
Report To: Debb Unruh	Email To: dunruh@kemron.com
Copy To: Evan Samuel	Site Collection Info/Address:
Customer Project Name/Number: GVMC / WV 1966	State: WV County/City: Greenbrier/Rainelle Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: 304-755-0499 Email: dunruh@kemron.com	Site/Facility ID #: GVMC
Collected By (print): Evan Samuel	Purchase Order #: WV 1966 Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [ ] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

** Preservative Types: (1) HCl, (2) [illegible] acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAH 8270 SIM	TOM Hg/MeHg Lowlvl	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Lab Profile/Line:
GVMC-SS-15(1-2)-20-1035	SL	Comb	8/6/24	0920					X	X	X	X											001
GVMC-SB-15(2-8)-20-1036	SL	↓	↓	0930					X	X	X	X											002

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N NA
Custody Signatures Present	Y	N NA
Collector Signature Present	Y	N NA
Bottles Intact	Y	N NA
Correct Bottles	Y	N NA
Sufficient Volume	Y	N NA
Samples Received on Ice	Y	N NA
VOA - Headspace Acceptable	Y	N NA
USDA Regulated Soils	Y	N NA
Samples in Holding Time	Y	N NA
Residual Chlorine Present	Y	N NA
Cl Strips:		
Sample pH Acceptable	Y	N NA
pH Strips:		
Sulfide Present	Y	N NA
Lead Acetate Strips:		

LAB USE ONLY:
Lab Sample # / Comments: JS 8/16/24

Received by Pace Beaver
Therm ID 24 Corr Factor +/- 0
Receipt Temp 2.2
Corrected Temp 2.2
Correct Preservation (Y) N

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Ice

Radchem sample(s) screened (<500 cpm): (Y) N NA

SHORT HOLDS PRESENT (<72 hours): Y (N) N/A

Lab Tracking #: 2949277

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: 17
Cooler 1 Temp Upon Receipt: 4.7 oC
Cooler 1 Therm Corr. Factor: -.3 oC
Cooler 1 Corrected Temp: 4.4 oC
Comments:

BR 8-15-24

Trip Blank Received: Y (N) NA
HCL MeOH TSP Other

Relinquished by/Company: (Signature)	Date/Time: 8/13/24 0640	Received by/Company: (Signature)	Date/Time: 8/14/24 945
Relinquished by/Company: (Signature)	Date/Time: 8/14/24 1400	Received by/Company: (Signature)	Date/Time: 8/15/24 12:00
Relinquished by/Company: (Signature)	Date/Time: 8/15/24 16:20	Received by/Company: (Signature)	Date/Time: 8/15/24 1620

MTJL LAB USE ONLY

Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Non Conformance(s): YES / (NO)

Page: 2 of: 2

Pace® Location Requested (City/State):

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Contact/Report To:
Street Address:	Phone #:
	E-Mail:
	Cc E-Mail:
Customer Project #:	Invoice to:
Project Name:	Invoice E-mail:
Site Collection Info/Facility ID (as applicable):	Purchase Order # (if applicable):
	Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [ ] ET	County / State origin of sample(s):
Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other_____	Regulatory Program (DW, RCRA, etc.) as applicable: Reportable [ ] Yes [ ] No
	Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day Other _____ **Date Results Requested:**
	DW PWSID # or WW Permit # as applicable: Field Filtered (if applicable): [ ] Yes [ ] No Analysis:

Specify Container Size **

Identify Container Preservative Type***

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: / AcctNum / Client ID: / Table #: / Profile / Template: / Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Composite Start Date	Composite Start Time	Collected or Composite End Date	Collected or Composite End Time	# Cont.	Residual Chlorine Result	Residual Chlorine Units	Sample Comment

Additional Instructions from Pace® :

Collected By:
Printed Name
Signature

Customer Remarks / Special Conditions / Possible Hazards:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C):	Corrected Temp. (°C):	[ ] On Ice

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
[signature]	8/16/24 1700	Nicely's Del. Service		
Nicely's Del. Service	8-17-24 0337	[signature]	8-19-24 0730	Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
				Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v02_110123 ©

Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

September 20, 2024

Mr. TERRY WILFONG
KEMRON ENVIRONMENTAL / POCA
108 CRADDOCK WAY
SUITE 5
Poca, WV 251597606

RE: Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Dear Mr. WILFONG:

Enclosed are the analytical results for sample(s) received by the laboratory on September 06, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Beaver
- Pace Analytical Services - Greensburg

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

Sincerely,

Bobby Adams
bobby.adams@pacelabs.com
(800)999-0105
Project Manager

Enclosures

cc: Mr. Evan Amick, KEMRON ENVIRONMENTAL / POCA
Ms. Crystal Cain, Kemron Environmental
Ms. Rawa Fleisher, Kemron Environmental
Ms. Terry Fondren, KEMRON ENVIRONMENTAL / POCA
Mr. Chris Hedrick, Kemron Environmental Services
Mr. Chris Jackson, KEMRON ENVIRONMENTAL / POCA
Mr. Alex Sweet, Kemron Environmental

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

CERTIFICATIONS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

Pace Analytical Services Beaver

225 Industrial Park Road, Beaver, WV 25813
Virginia VELAP 460148
West Virginia DEP 060
West Virginia DHHR 00412CM
North Carolina DEQ 466
Kentucky Wastewater Certification KY90039
Pennsylvania DEP 68-00839

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE SUMMARY

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30715797001	**GVMC-MW-6-01-1031**	Water	09/04/24 17:50	09/06/24 16:23
30715797002	**GVMC-EB-01-1032**	Water	09/05/24 07:45	09/06/24 16:23
30715797003	**GVMC-MW-5-01-1033**	Water	09/05/24 09:10	09/06/24 16:23
30715797004	**GVMC-MW-4-01-1034**	Water	09/05/24 11:10	09/06/24 16:23
30715797005	**GVMC-MW-3-01-1035**	Water	09/05/24 14:50	09/06/24 16:23
30715797006	**GVMC-MW-3-02-1036**	Water	09/05/24 14:50	09/06/24 16:23
30715797007	**GVMC-MW-7-01-1037**	Water	09/05/24 16:55	09/06/24 16:23
30715797008	**GVMC-FB-01-1038**	Water	09/06/24 07:20	09/06/24 16:23
30715797009	**GVMC-MW-8-01-1039**	Water	09/06/24 08:30	09/06/24 16:23
30715797010	**GVMC-MW-11-01-1040**	Water	09/06/24 11:45	09/06/24 16:23
30715797011	**GVMC-MW-10-01-1041**	Water	09/06/24 12:50	09/06/24 16:23
30715797012	**GVMC-MW-9-01-1042**	Water	09/06/24 14:25	09/06/24 16:23
30715797013	**GVMC-TB-01-1043**	Water	09/06/24 14:45	09/06/24 16:23

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

SAMPLE ANALYTE COUNT

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30715797001	**GVMC-MW-6-01-1031**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797002	**GVMC-EB-01-1032**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797003	**GVMC-MW-5-01-1033**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797004	**GVMC-MW-4-01-1034**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797005	**GVMC-MW-3-01-1035**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797006	**GVMC-MW-3-02-1036**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797007	**GVMC-MW-7-01-1037**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797008	**GVMC-FB-01-1038**	EPA 8260D	EAB	52	PASI-PA
30715797009	**GVMC-MW-8-01-1039**	EPA 6010D	AGB	7	PASI-BV

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(800)999-0105

SAMPLE ANALYTE COUNT

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797010	**GVMC-MW-11-01-1040**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797011	**GVMC-MW-10-01-1041**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797012	**GVMC-MW-9-01-1042**	EPA 6010D	AGB	7	PASI-BV
		EPA 7470A	JLH1	1	PASI-BV
		EPA 8270E By SIM	SJG	18	PASI-PA
		EPA 8270E	EAC	75	PASI-PA
		EPA 8260D	EAB	52	PASI-PA
30715797013	**GVMC-TB-01-1043**	EPA 8260D	EAB	52	PASI-PA

PASI-BV = Pace Analytical Services - Beaver
PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-6-01-1031 **Lab ID: 30715797001** Collected: 09/04/24 17:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:17	7440-38-2	
Barium, Dissolved	**152**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:17	7440-39-3	
Cadmium, Dissolved	ND	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:17	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:17	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:17	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:17	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:17	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 11:48	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**0.19**	ug/L	0.10	0.095	1	09/10/24 10:00	09/11/24 16:13	83-32-9	
Acenaphthylene	**0.11**	ug/L	0.10	0.090	1	09/10/24 10:00	09/11/24 16:13	208-96-8	
Anthracene	ND	ug/L	0.10	0.089	1	09/10/24 10:00	09/11/24 16:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.083	1	09/10/24 10:00	09/11/24 16:13	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.10	0.080	1	09/10/24 10:00	09/11/24 16:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.088	1	09/10/24 10:00	09/11/24 16:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.074	1	09/10/24 10:00	09/11/24 16:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.042	1	09/10/24 10:00	09/11/24 16:13	207-08-9	
Chrysene	ND	ug/L	0.10	0.076	1	09/10/24 10:00	09/11/24 16:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.082	1	09/10/24 10:00	09/11/24 16:13	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.090	1	09/10/24 10:00	09/11/24 16:13	206-44-0	
Fluorene	**0.21**	ug/L	0.10	0.092	1	09/10/24 10:00	09/11/24 16:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.080	1	09/10/24 10:00	09/11/24 16:13	193-39-5	
Naphthalene	**59.5**	ug/L	2.0	2.0	10	09/10/24 10:00	09/17/24 12:16	91-20-3	
Phenanthrene	**0.20**	ug/L	0.10	0.090	1	09/10/24 10:00	09/11/24 16:13	85-01-8	
Pyrene	ND	ug/L	0.10	0.088	1	09/10/24 10:00	09/11/24 16:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	69	%.	43-95		1	09/10/24 10:00	09/11/24 16:13	321-60-8	
Terphenyl-d14 (S)	89	%.	47-118		1	09/10/24 10:00	09/11/24 16:13	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 16:52	83-32-9	
Acenaphthylene	ND	ug/L	1.0	0.65	1	09/10/24 10:00	09/12/24 16:52	208-96-8	
Anthracene	ND	ug/L	1.0	0.67	1	09/10/24 10:00	09/12/24 16:52	120-12-7	
Azobenzene	ND	ug/L	1.0	0.67	1	09/10/24 10:00	09/12/24 16:52	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.0	0.79	1	09/10/24 10:00	09/12/24 16:52	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	0.77	1	09/10/24 10:00	09/12/24 16:52	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	0.76	1	09/10/24 10:00	09/12/24 16:52	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.81	1	09/10/24 10:00	09/12/24 16:52	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	0.73	1	09/10/24 10:00	09/12/24 16:52	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-6-01-1031 **Lab ID: 30715797001** Collected: 09/04/24 17:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	15.3	4.4	1	09/10/24 10:00	09/12/24 16:52	65-85-0	
Benzyl alcohol	**15.1**	ug/L	1.0	1.0	1	09/10/24 10:00	09/12/24 16:52	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.69	1	09/10/24 10:00	09/12/24 16:52	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.6	0.73	1	09/10/24 10:00	09/12/24 16:52	85-68-7	
Carbazole	ND	ug/L	1.0	0.72	1	09/10/24 10:00	09/12/24 16:52	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.65	1	09/10/24 10:00	09/12/24 16:52	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	0.51	1	09/10/24 10:00	09/12/24 16:52	106-47-8	
bis(2-Chloroethoxy)methane	**1.6**	ug/L	1.0	0.59	1	09/10/24 10:00	09/12/24 16:52	111-91-1	
bis(2-Chloroethyl) ether	**11.7**	ug/L	1.0	0.54	1	09/10/24 10:00	09/12/24 16:52	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.64	1	09/10/24 10:00	09/12/24 16:52	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	0.67	1	09/10/24 10:00	09/12/24 16:52	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	0.60	1	09/10/24 10:00	09/12/24 16:52	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 16:52	7005-72-3	
Chrysene	ND	ug/L	1.0	0.81	1	09/10/24 10:00	09/12/24 16:52	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.77	1	09/10/24 10:00	09/12/24 16:52	53-70-3	
Dibenzofuran	ND	ug/L	1.0	0.59	1	09/10/24 10:00	09/12/24 16:52	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 16:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.57	1	09/10/24 10:00	09/12/24 16:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.57	1	09/10/24 10:00	09/12/24 16:52	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.83	1	09/10/24 10:00	09/12/24 16:52	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 16:52	120-83-2	
Diethylphthalate	ND	ug/L	1.0	0.65	1	09/10/24 10:00	09/12/24 16:52	84-66-2	
2,4-Dimethylphenol	**1.2**	ug/L	1.0	0.66	1	09/10/24 10:00	09/12/24 16:52	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	0.65	1	09/10/24 10:00	09/12/24 16:52	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	0.82	1	09/10/24 10:00	09/12/24 16:52	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1.8	1	09/10/24 10:00	09/12/24 16:52	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	2.4	1	09/10/24 10:00	09/12/24 16:52	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.0	0.47	1	09/10/24 10:00	09/12/24 16:52	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	0.56	1	09/10/24 10:00	09/12/24 16:52	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.6	1.1	1	09/10/24 10:00	09/12/24 16:52	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.6	1.5	1	09/10/24 10:00	09/12/24 16:52	117-81-7	
Fluoranthene	ND	ug/L	1.0	0.72	1	09/10/24 10:00	09/12/24 16:52	206-44-0	
Fluorene	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 16:52	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 16:52	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	0.69	1	09/10/24 10:00	09/12/24 16:52	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.58	1	09/10/24 10:00	09/12/24 16:52	77-47-4	CH
Hexachloroethane	ND	ug/L	1.0	0.58	1	09/10/24 10:00	09/12/24 16:52	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.71	1	09/10/24 10:00	09/12/24 16:52	193-39-5	
Isophorone	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 16:52	78-59-1	
1-Methylnaphthalene	**30.5**	ug/L	5.1	3.0	5	09/10/24 10:00	09/13/24 17:20	90-12-0	
2-Methylnaphthalene	**49.0**	ug/L	5.1	3.0	5	09/10/24 10:00	09/13/24 17:20	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.50	1	09/10/24 10:00	09/12/24 16:52	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.91	1	09/10/24 10:00	09/12/24 16:52		
Naphthalene	**51.9**	ug/L	12.8	3.4	5	09/10/24 10:00	09/13/24 17:20	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1.3	1	09/10/24 10:00	09/12/24 16:52	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-6-01-1031 **Lab ID: 30715797001** Collected: 09/04/24 17:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.6	1.4	1	09/10/24 10:00	09/12/24 16:52	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1.4	1	09/10/24 10:00	09/12/24 16:52	100-01-6	
Nitrobenzene	ND	ug/L	1.0	0.60	1	09/10/24 10:00	09/12/24 16:52	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	0.69	1	09/10/24 10:00	09/12/24 16:52	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	0.36	1	09/10/24 10:00	09/12/24 16:52	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	0.35	1	09/10/24 10:00	09/12/24 16:52	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.59	1	09/10/24 10:00	09/12/24 16:52	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.69	1	09/10/24 10:00	09/12/24 16:52	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1.6	1	09/10/24 10:00	09/12/24 16:52	87-86-5	
Phenanthrene	ND	ug/L	1.0	0.67	1	09/10/24 10:00	09/12/24 16:52	85-01-8	
Phenol	ND	ug/L	1.0	0.26	1	09/10/24 10:00	09/12/24 16:52	108-95-2	
Pyrene	ND	ug/L	1.0	0.77	1	09/10/24 10:00	09/12/24 16:52	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.60	1	09/10/24 10:00	09/12/24 16:52	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1.7	1	09/10/24 10:00	09/12/24 16:52	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 16:52	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	179	%.	43-123		1	09/10/24 10:00	09/12/24 16:52	4165-60-0	ST
2-Fluorobiphenyl (S)	69	%.	36-126		1	09/10/24 10:00	09/12/24 16:52	321-60-8	
Terphenyl-d14 (S)	88	%.	56-129		1	09/10/24 10:00	09/12/24 16:52	1718-51-0	
Phenol-d6 (S)	29	%.	11-56		1	09/10/24 10:00	09/12/24 16:52	13127-88-3	
2-Fluorophenol (S)	42	%.	25-80		1	09/10/24 10:00	09/12/24 16:52	367-12-4	
2,4,6-Tribromophenol (S)	89	%.	44-136		1	09/10/24 10:00	09/12/24 16:52	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	**128**	ug/L	50.0	11.4	1		09/13/24 15:40	67-64-1	3c
Benzene	**13.1**	ug/L	1.0	0.34	1		09/13/24 15:40	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 15:40	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 15:40	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 15:40	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 15:40	74-83-9	CL
TOTAL BTEX	**537**	ug/L	6.0	2.4	1		09/13/24 15:40		
2-Butanone (MEK)	**31.1**	ug/L	10.0	1.5	1		09/13/24 15:40	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 15:40	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 15:40	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 15:40	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 15:40	75-00-3	
Chloroform	**4.8**	ug/L	1.0	0.93	1		09/13/24 15:40	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 15:40	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 15:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 15:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 15:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 15:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 15:40	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 15:40	107-06-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-6-01-1031 **Lab ID: 30715797001** Collected: 09/04/24 17:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 15:40	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 15:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 15:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 15:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 15:40	10061-02-6	
Ethylbenzene	**107**	ug/L	1.0	0.40	1		09/13/24 15:40	100-41-4	
2-Hexanone	**11.3**	ug/L	10.0	0.58	1		09/13/24 15:40	591-78-6	
Isopropylbenzene (Cumene)	**133**	ug/L	1.0	0.47	1		09/13/24 15:40	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**7.6J**	ug/L	10.0	0.42	1		09/13/24 15:40	108-10-1	
Methyl-tert-butyl ether	**1.9**	ug/L	1.0	0.25	1		09/13/24 15:40	1634-04-4	
Naphthalene	**72.2**	ug/L	4.0	2.1	1		09/13/24 15:40	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 15:40	100-42-5	
1,1,2,2-Tetrachloroethane	**3.3**	ug/L	1.0	0.47	1		09/13/24 15:40	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 15:40	127-18-4	
Toluene	**2.9**	ug/L	1.0	0.32	1		09/13/24 15:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 15:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 15:40	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 15:40	79-01-6	
1,2,4-Trimethylbenzene	**445**	ug/L	10.0	6.3	10		09/16/24 15:32	95-63-6	
1,3,5-Trimethylbenzene	**148**	ug/L	1.0	0.45	1		09/13/24 15:40	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 15:40	75-01-4	
Xylene (Total)	**414**	ug/L	3.0	1.4	1		09/13/24 15:40	1330-20-7	
m&p-Xylene	**239**	ug/L	2.0	0.94	1		09/13/24 15:40	179601-23-1	
o-Xylene	**175**	ug/L	1.0	0.41	1		09/13/24 15:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%.	70-130		1		09/13/24 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%.	70-130		1		09/13/24 15:40	17060-07-0	
Toluene-d8 (S)	103	%.	70-130		1		09/13/24 15:40	2037-26-5	
Dibromofluoromethane (S)	102	%.	70-130		1		09/13/24 15:40	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-EB-01-1032 **Lab ID: 30715797002** Collected: 09/05/24 07:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:19	7440-38-2	
Barium, Dissolved	ND	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:19	7440-39-3	
Cadmium, Dissolved	ND	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:19	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:19	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:19	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:19	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:19	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 11:51	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**0.14**	ug/L	0.10	0.097	1	09/10/24 10:00	09/11/24 16:30	83-32-9	
Acenaphthylene	ND	ug/L	0.10	0.092	1	09/10/24 10:00	09/11/24 16:30	208-96-8	
Anthracene	ND	ug/L	0.10	0.091	1	09/10/24 10:00	09/11/24 16:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.10	0.085	1	09/10/24 10:00	09/11/24 16:30	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.10	0.081	1	09/10/24 10:00	09/11/24 16:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.10	0.090	1	09/10/24 10:00	09/11/24 16:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.10	0.076	1	09/10/24 10:00	09/11/24 16:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.10	0.043	1	09/10/24 10:00	09/11/24 16:30	207-08-9	
Chrysene	ND	ug/L	0.10	0.078	1	09/10/24 10:00	09/11/24 16:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.10	0.083	1	09/10/24 10:00	09/11/24 16:30	53-70-3	
Fluoranthene	ND	ug/L	0.10	0.092	1	09/10/24 10:00	09/11/24 16:30	206-44-0	
Fluorene	ND	ug/L	0.10	0.093	1	09/10/24 10:00	09/11/24 16:30	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.10	0.081	1	09/10/24 10:00	09/11/24 16:30	193-39-5	
Naphthalene	ND	ug/L	0.21	0.20	1	09/10/24 10:00	09/11/24 16:30	91-20-3	
Phenanthrene	ND	ug/L	0.10	0.092	1	09/10/24 10:00	09/11/24 16:30	85-01-8	
Pyrene	ND	ug/L	0.10	0.089	1	09/10/24 10:00	09/11/24 16:30	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	88	%.	43-95		1	09/10/24 10:00	09/11/24 16:30	321-60-8	
Terphenyl-d14 (S)	93	%.	47-118		1	09/10/24 10:00	09/11/24 16:30	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 17:11	83-32-9	
Acenaphthylene	ND	ug/L	1.0	0.66	1	09/10/24 10:00	09/12/24 17:11	208-96-8	
Anthracene	ND	ug/L	1.0	0.68	1	09/10/24 10:00	09/12/24 17:11	120-12-7	
Azobenzene	ND	ug/L	1.0	0.68	1	09/10/24 10:00	09/12/24 17:11	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.0	0.80	1	09/10/24 10:00	09/12/24 17:11	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.0	0.79	1	09/10/24 10:00	09/12/24 17:11	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.0	0.78	1	09/10/24 10:00	09/12/24 17:11	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.83	1	09/10/24 10:00	09/12/24 17:11	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.0	0.75	1	09/10/24 10:00	09/12/24 17:11	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-EB-01-1032 **Lab ID: 30715797002** Collected: 09/05/24 07:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	**8.4J**	ug/L	15.6	4.5	1	09/10/24 10:00	09/12/24 17:11	65-85-0	
Benzyl alcohol	ND	ug/L	1.0	1.0	1	09/10/24 10:00	09/12/24 17:11	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.70	1	09/10/24 10:00	09/12/24 17:11	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.6	0.74	1	09/10/24 10:00	09/12/24 17:11	85-68-7	
Carbazole	ND	ug/L	1.0	0.73	1	09/10/24 10:00	09/12/24 17:11	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.66	1	09/10/24 10:00	09/12/24 17:11	59-50-7	
4-Chloroaniline	ND	ug/L	1.0	0.52	1	09/10/24 10:00	09/12/24 17:11	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.0	0.60	1	09/10/24 10:00	09/12/24 17:11	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.56	1	09/10/24 10:00	09/12/24 17:11	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.65	1	09/10/24 10:00	09/12/24 17:11	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.0	0.69	1	09/10/24 10:00	09/12/24 17:11	91-58-7	
2-Chlorophenol	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 17:11	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 17:11	7005-72-3	
Chrysene	ND	ug/L	1.0	0.83	1	09/10/24 10:00	09/12/24 17:11	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.79	1	09/10/24 10:00	09/12/24 17:11	53-70-3	
Dibenzofuran	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 17:11	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 17:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.59	1	09/10/24 10:00	09/12/24 17:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.59	1	09/10/24 10:00	09/12/24 17:11	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.84	1	09/10/24 10:00	09/12/24 17:11	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.0	0.64	1	09/10/24 10:00	09/12/24 17:11	120-83-2	
Diethylphthalate	ND	ug/L	1.0	0.66	1	09/10/24 10:00	09/12/24 17:11	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.0	0.67	1	09/10/24 10:00	09/12/24 17:11	105-67-9	
Dimethylphthalate	ND	ug/L	1.0	0.66	1	09/10/24 10:00	09/12/24 17:11	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.0	0.84	1	09/10/24 10:00	09/12/24 17:11	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.6	1.8	1	09/10/24 10:00	09/12/24 17:11	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.6	2.5	1	09/10/24 10:00	09/12/24 17:11	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.0	0.48	1	09/10/24 10:00	09/12/24 17:11	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	0.58	1	09/10/24 10:00	09/12/24 17:11	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.6	1.2	1	09/10/24 10:00	09/12/24 17:11	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.6	1.5	1	09/10/24 10:00	09/12/24 17:11	117-81-7	
Fluoranthene	ND	ug/L	1.0	0.74	1	09/10/24 10:00	09/12/24 17:11	206-44-0	
Fluorene	ND	ug/L	1.0	0.64	1	09/10/24 10:00	09/12/24 17:11	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 17:11	87-68-3	
Hexachlorobenzene	ND	ug/L	1.0	0.71	1	09/10/24 10:00	09/12/24 17:11	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.59	1	09/10/24 10:00	09/12/24 17:11	77-47-4	CH
Hexachloroethane	ND	ug/L	1.0	0.59	1	09/10/24 10:00	09/12/24 17:11	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.73	1	09/10/24 10:00	09/12/24 17:11	193-39-5	
Isophorone	ND	ug/L	1.0	0.63	1	09/10/24 10:00	09/12/24 17:11	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.0	0.60	1	09/10/24 10:00	09/12/24 17:11	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 17:11	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.0	0.51	1	09/10/24 10:00	09/12/24 17:11	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.1	0.92	1	09/10/24 10:00	09/12/24 17:11		
Naphthalene	ND	ug/L	2.6	0.69	1	09/10/24 10:00	09/12/24 17:11	91-20-3	
2-Nitroaniline	ND	ug/L	2.6	1.3	1	09/10/24 10:00	09/12/24 17:11	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-EB-01-1032 **Lab ID: 30715797002** Collected: 09/05/24 07:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.6	1.4	1	09/10/24 10:00	09/12/24 17:11	99-09-2	
4-Nitroaniline	ND	ug/L	2.6	1.4	1	09/10/24 10:00	09/12/24 17:11	100-01-6	
Nitrobenzene	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 17:11	98-95-3	
2-Nitrophenol	ND	ug/L	1.0	0.70	1	09/10/24 10:00	09/12/24 17:11	88-75-5	
4-Nitrophenol	ND	ug/L	1.0	0.37	1	09/10/24 10:00	09/12/24 17:11	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.0	0.35	1	09/10/24 10:00	09/12/24 17:11	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.60	1	09/10/24 10:00	09/12/24 17:11	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.71	1	09/10/24 10:00	09/12/24 17:11	86-30-6	
Pentachlorophenol	ND	ug/L	2.6	1.6	1	09/10/24 10:00	09/12/24 17:11	87-86-5	
Phenanthrene	ND	ug/L	1.0	0.69	1	09/10/24 10:00	09/12/24 17:11	85-01-8	
Phenol	ND	ug/L	1.0	0.26	1	09/10/24 10:00	09/12/24 17:11	108-95-2	
Pyrene	ND	ug/L	1.0	0.79	1	09/10/24 10:00	09/12/24 17:11	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.61	1	09/10/24 10:00	09/12/24 17:11	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.6	1.7	1	09/10/24 10:00	09/12/24 17:11	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.62	1	09/10/24 10:00	09/12/24 17:11	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	86	%.	43-123		1	09/10/24 10:00	09/12/24 17:11	4165-60-0	
2-Fluorobiphenyl (S)	85	%.	36-126		1	09/10/24 10:00	09/12/24 17:11	321-60-8	
Terphenyl-d14 (S)	96	%.	56-129		1	09/10/24 10:00	09/12/24 17:11	1718-51-0	
Phenol-d6 (S)	32	%.	11-56		1	09/10/24 10:00	09/12/24 17:11	13127-88-3	
2-Fluorophenol (S)	45	%.	25-80		1	09/10/24 10:00	09/12/24 17:11	367-12-4	
2,4,6-Tribromophenol (S)	86	%.	44-136		1	09/10/24 10:00	09/12/24 17:11	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 16:05	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 16:05	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 16:05	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 16:05	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 16:05	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 16:05	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 16:05		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 16:05	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 16:05	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 16:05	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 16:05	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 16:05	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		09/13/24 16:05	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 16:05	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 16:05	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 16:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 16:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 16:05	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 16:05	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 16:05	107-06-2	

REPORT OF LABORATORY ANALYSIS

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-EB-01-1032 **Lab ID: 30715797002** Collected: 09/05/24 07:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 16:05	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 16:05	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 16:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 16:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 16:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 16:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 16:05	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 16:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 16:05	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 16:05	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 16:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 16:05	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 16:05	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 16:05	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 16:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 16:05	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 16:05	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 16:05	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 16:05	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 16:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 16:05	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 16:05	79-01-6	
1,2,4-Trimethylbenzene	**0.89J**	ug/L	1.0	0.63	1		09/13/24 16:05	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 16:05	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 16:05	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 16:05	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 16:05	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 16:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%.	70-130		1		09/13/24 16:05	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%.	70-130		1		09/13/24 16:05	17060-07-0	
Toluene-d8 (S)	98	%.	70-130		1		09/13/24 16:05	2037-26-5	
Dibromofluoromethane (S)	99	%.	70-130		1		09/13/24 16:05	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-5-01-1033 **Lab ID: 30715797003** Collected: 09/05/24 09:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:21	7440-38-2	
Barium, Dissolved	**1050**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:21	7440-39-3	
Cadmium, Dissolved	**0.56J**	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:21	7440-43-9	
Chromium, Dissolved	**0.44J**	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:21	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:21	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:21	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:21	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 11:53	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.098	0.091	1	09/10/24 10:00	09/11/24 16:46	83-32-9	
Acenaphthylene	ND	ug/L	0.098	0.087	1	09/10/24 10:00	09/11/24 16:46	208-96-8	
Anthracene	ND	ug/L	0.098	0.086	1	09/10/24 10:00	09/11/24 16:46	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.098	0.080	1	09/10/24 10:00	09/11/24 16:46	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.098	0.077	1	09/10/24 10:00	09/11/24 16:46	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.098	0.085	1	09/10/24 10:00	09/11/24 16:46	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.098	0.071	1	09/10/24 10:00	09/11/24 16:46	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.098	0.041	1	09/10/24 10:00	09/11/24 16:46	207-08-9	
Chrysene	ND	ug/L	0.098	0.073	1	09/10/24 10:00	09/11/24 16:46	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.098	0.078	1	09/10/24 10:00	09/11/24 16:46	53-70-3	
Fluoranthene	ND	ug/L	0.098	0.086	1	09/10/24 10:00	09/11/24 16:46	206-44-0	
Fluorene	ND	ug/L	0.098	0.088	1	09/10/24 10:00	09/11/24 16:46	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.098	0.077	1	09/10/24 10:00	09/11/24 16:46	193-39-5	
Naphthalene	ND	ug/L	0.20	0.19	1	09/10/24 10:00	09/11/24 16:46	91-20-3	
Phenanthrene	ND	ug/L	0.098	0.087	1	09/10/24 10:00	09/11/24 16:46	85-01-8	
Pyrene	ND	ug/L	0.098	0.084	1	09/10/24 10:00	09/11/24 16:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75	%.	43-95		1	09/10/24 10:00	09/11/24 16:46	321-60-8	
Terphenyl-d14 (S)	85	%.	47-118		1	09/10/24 10:00	09/11/24 16:46	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.98	0.59	1	09/10/24 10:00	09/12/24 17:31	83-32-9	
Acenaphthylene	ND	ug/L	0.98	0.62	1	09/10/24 10:00	09/12/24 17:31	208-96-8	
Anthracene	ND	ug/L	0.98	0.64	1	09/10/24 10:00	09/12/24 17:31	120-12-7	
Azobenzene	ND	ug/L	0.98	0.64	1	09/10/24 10:00	09/12/24 17:31	103-33-3	
Benzo(a)anthracene	ND	ug/L	0.98	0.75	1	09/10/24 10:00	09/12/24 17:31	56-55-3	
Benzo(a)pyrene	ND	ug/L	0.98	0.74	1	09/10/24 10:00	09/12/24 17:31	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.98	0.73	1	09/10/24 10:00	09/12/24 17:31	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.98	0.78	1	09/10/24 10:00	09/12/24 17:31	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.98	0.70	1	09/10/24 10:00	09/12/24 17:31	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-5-01-1033 **Lab ID: 30715797003** Collected: 09/05/24 09:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	14.7	4.2	1	09/10/24 10:00	09/12/24 17:31	65-85-0	
Benzyl alcohol	ND	ug/L	0.98	0.96	1	09/10/24 10:00	09/12/24 17:31	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	0.98	0.66	1	09/10/24 10:00	09/12/24 17:31	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.5	0.70	1	09/10/24 10:00	09/12/24 17:31	85-68-7	
Carbazole	ND	ug/L	0.98	0.69	1	09/10/24 10:00	09/12/24 17:31	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	0.98	0.62	1	09/10/24 10:00	09/12/24 17:31	59-50-7	
4-Chloroaniline	ND	ug/L	0.98	0.49	1	09/10/24 10:00	09/12/24 17:31	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	0.98	0.57	1	09/10/24 10:00	09/12/24 17:31	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	0.98	0.52	1	09/10/24 10:00	09/12/24 17:31	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	0.98	0.61	1	09/10/24 10:00	09/12/24 17:31	108-60-1	
2-Chloronaphthalene	ND	ug/L	0.98	0.65	1	09/10/24 10:00	09/12/24 17:31	91-58-7	
2-Chlorophenol	ND	ug/L	0.98	0.57	1	09/10/24 10:00	09/12/24 17:31	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	0.98	0.59	1	09/10/24 10:00	09/12/24 17:31	7005-72-3	
Chrysene	ND	ug/L	0.98	0.78	1	09/10/24 10:00	09/12/24 17:31	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.98	0.74	1	09/10/24 10:00	09/12/24 17:31	53-70-3	
Dibenzofuran	ND	ug/L	0.98	0.57	1	09/10/24 10:00	09/12/24 17:31	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	0.98	0.59	1	09/10/24 10:00	09/12/24 17:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	0.98	0.55	1	09/10/24 10:00	09/12/24 17:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	0.98	0.55	1	09/10/24 10:00	09/12/24 17:31	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	0.98	0.79	1	09/10/24 10:00	09/12/24 17:31	91-94-1	
2,4-Dichlorophenol	ND	ug/L	0.98	0.60	1	09/10/24 10:00	09/12/24 17:31	120-83-2	
Diethylphthalate	ND	ug/L	0.98	0.62	1	09/10/24 10:00	09/12/24 17:31	84-66-2	
2,4-Dimethylphenol	ND	ug/L	0.98	0.63	1	09/10/24 10:00	09/12/24 17:31	105-67-9	
Dimethylphthalate	ND	ug/L	0.98	0.62	1	09/10/24 10:00	09/12/24 17:31	131-11-3	
Di-n-butylphthalate	ND	ug/L	0.98	0.79	1	09/10/24 10:00	09/12/24 17:31	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1.7	1	09/10/24 10:00	09/12/24 17:31	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.5	2.3	1	09/10/24 10:00	09/12/24 17:31	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	0.98	0.46	1	09/10/24 10:00	09/12/24 17:31	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	0.98	0.54	1	09/10/24 10:00	09/12/24 17:31	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.5	1.1	1	09/10/24 10:00	09/12/24 17:31	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.5	1.4	1	09/10/24 10:00	09/12/24 17:31	117-81-7	
Fluoranthene	ND	ug/L	0.98	0.69	1	09/10/24 10:00	09/12/24 17:31	206-44-0	
Fluorene	ND	ug/L	0.98	0.60	1	09/10/24 10:00	09/12/24 17:31	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	0.98	0.58	1	09/10/24 10:00	09/12/24 17:31	87-68-3	
Hexachlorobenzene	ND	ug/L	0.98	0.66	1	09/10/24 10:00	09/12/24 17:31	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	0.98	0.56	1	09/10/24 10:00	09/12/24 17:31	77-47-4	CH
Hexachloroethane	ND	ug/L	0.98	0.56	1	09/10/24 10:00	09/12/24 17:31	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.98	0.68	1	09/10/24 10:00	09/12/24 17:31	193-39-5	
Isophorone	ND	ug/L	0.98	0.59	1	09/10/24 10:00	09/12/24 17:31	78-59-1	
1-Methylnaphthalene	ND	ug/L	0.98	0.57	1	09/10/24 10:00	09/12/24 17:31	90-12-0	
2-Methylnaphthalene	ND	ug/L	0.98	0.58	1	09/10/24 10:00	09/12/24 17:31	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	0.98	0.48	1	09/10/24 10:00	09/12/24 17:31	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.0	0.87	1	09/10/24 10:00	09/12/24 17:31		
Naphthalene	ND	ug/L	2.5	0.65	1	09/10/24 10:00	09/12/24 17:31	91-20-3	
2-Nitroaniline	ND	ug/L	2.5	1.2	1	09/10/24 10:00	09/12/24 17:31	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-5-01-1033 **Lab ID: 30715797003** Collected: 09/05/24 09:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.5	1.3	1	09/10/24 10:00	09/12/24 17:31	99-09-2	
4-Nitroaniline	ND	ug/L	2.5	1.4	1	09/10/24 10:00	09/12/24 17:31	100-01-6	
Nitrobenzene	ND	ug/L	0.98	0.58	1	09/10/24 10:00	09/12/24 17:31	98-95-3	
2-Nitrophenol	ND	ug/L	0.98	0.66	1	09/10/24 10:00	09/12/24 17:31	88-75-5	
4-Nitrophenol	ND	ug/L	0.98	0.35	1	09/10/24 10:00	09/12/24 17:31	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	0.98	0.33	1	09/10/24 10:00	09/12/24 17:31	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	0.98	0.57	1	09/10/24 10:00	09/12/24 17:31	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	0.98	0.67	1	09/10/24 10:00	09/12/24 17:31	86-30-6	
Pentachlorophenol	ND	ug/L	2.5	1.5	1	09/10/24 10:00	09/12/24 17:31	87-86-5	
Phenanthrene	ND	ug/L	0.98	0.65	1	09/10/24 10:00	09/12/24 17:31	85-01-8	
Phenol	ND	ug/L	0.98	0.25	1	09/10/24 10:00	09/12/24 17:31	108-95-2	
Pyrene	ND	ug/L	0.98	0.74	1	09/10/24 10:00	09/12/24 17:31	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	0.98	0.58	1	09/10/24 10:00	09/12/24 17:31	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1.6	1	09/10/24 10:00	09/12/24 17:31	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	0.98	0.58	1	09/10/24 10:00	09/12/24 17:31	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78	%.	43-123		1	09/10/24 10:00	09/12/24 17:31	4165-60-0	
2-Fluorobiphenyl (S)	71	%.	36-126		1	09/10/24 10:00	09/12/24 17:31	321-60-8	
Terphenyl-d14 (S)	87	%.	56-129		1	09/10/24 10:00	09/12/24 17:31	1718-51-0	
Phenol-d6 (S)	26	%.	11-56		1	09/10/24 10:00	09/12/24 17:31	13127-88-3	
2-Fluorophenol (S)	40	%.	25-80		1	09/10/24 10:00	09/12/24 17:31	367-12-4	
2,4,6-Tribromophenol (S)	67	%.	44-136		1	09/10/24 10:00	09/12/24 17:31	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 16:31	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 16:31	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 16:31	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 16:31	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 16:31	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 16:31	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 16:31		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 16:31	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 16:31	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 16:31	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 16:31	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 16:31	75-00-3	
Chloroform	**16.2**	ug/L	1.0	0.93	1		09/13/24 16:31	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 16:31	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 16:31	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 16:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 16:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 16:31	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 16:31	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 16:31	107-06-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-5-01-1033 **Lab ID: 30715797003** Collected: 09/05/24 09:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 16:31	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 16:31	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 16:31	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 16:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 16:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 16:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 16:31	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 16:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 16:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 16:31	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 16:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 16:31	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 16:31	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 16:31	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 16:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 16:31	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 16:31	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 16:31	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 16:31	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 16:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 16:31	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 16:31	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		09/13/24 16:31	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 16:31	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 16:31	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 16:31	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 16:31	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 16:31	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	70-130		1		09/13/24 16:31	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%.	70-130		1		09/13/24 16:31	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		1		09/13/24 16:31	2037-26-5	
Dibromofluoromethane (S)	104	%.	70-130		1		09/13/24 16:31	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-4-01-1034 **Lab ID: 30715797004** Collected: 09/05/24 11:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:23	7440-38-2	
Barium, Dissolved	**138**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:23	7440-39-3	
Cadmium, Dissolved	ND	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:23	7440-43-9	
Chromium, Dissolved	**7.6**	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:23	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:23	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:23	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:23	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 11:56	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	**0.19**	ug/L	0.11	0.11	1	09/10/24 10:00	09/11/24 17:02	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:02	208-96-8	
Anthracene	ND	ug/L	0.11	0.099	1	09/10/24 10:00	09/11/24 17:02	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.092	1	09/10/24 10:00	09/11/24 17:02	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.089	1	09/10/24 10:00	09/11/24 17:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.098	1	09/10/24 10:00	09/11/24 17:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.083	1	09/10/24 10:00	09/11/24 17:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.047	1	09/10/24 10:00	09/11/24 17:02	207-08-9	
Chrysene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 17:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.091	1	09/10/24 10:00	09/11/24 17:02	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:02	206-44-0	
Fluorene	**0.20**	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:02	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.089	1	09/10/24 10:00	09/11/24 17:02	193-39-5	
Naphthalene	**20.1**	ug/L	0.23	0.22	1	09/10/24 10:00	09/11/24 17:02	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:02	85-01-8	
Pyrene	ND	ug/L	0.11	0.098	1	09/10/24 10:00	09/11/24 17:02	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%.	43-95		1	09/10/24 10:00	09/11/24 17:02	321-60-8	
Terphenyl-d14 (S)	96	%.	47-118		1	09/10/24 10:00	09/11/24 17:02	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 17:50	83-32-9	
Acenaphthene	ND	ug/L	1.0	0.60	1	09/17/24 09:00	09/18/24 14:30	83-32-9	1c,2c, H2
Acenaphthylene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 17:50	208-96-8	
Acenaphthylene	ND	ug/L	1.0	0.64	1	09/17/24 09:00	09/18/24 14:30	208-96-8	1c,2c, H2
Anthracene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 17:50	120-12-7	
Anthracene	ND	ug/L	1.0	0.66	1	09/17/24 09:00	09/18/24 14:30	120-12-7	1c,2c, H2
Azobenzene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 17:50	103-33-3	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-4-01-1034 **Lab ID: 30715797004** Collected: 09/05/24 11:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Azobenzene	ND	ug/L	1.0	0.65	1	09/17/24 09:00	09/18/24 14:30	103-33-3	1c,2c, H2
Benzo(a)anthracene	ND	ug/L	1.1	0.88	1	09/10/24 10:00	09/12/24 17:50	56-55-3	
Benzo(a)anthracene	ND	ug/L	1.0	0.77	1	09/17/24 09:00	09/18/24 14:30	56-55-3	1c,2c, H2
Benzo(a)pyrene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 17:50	50-32-8	
Benzo(a)pyrene	ND	ug/L	1.0	0.76	1	09/17/24 09:00	09/18/24 14:30	50-32-8	1c,2c, H2
Benzo(b)fluoranthene	ND	ug/L	1.1	0.85	1	09/10/24 10:00	09/12/24 17:50	205-99-2	
Benzo(b)fluoranthene	ND	ug/L	1.0	0.75	1	09/17/24 09:00	09/18/24 14:30	205-99-2	1c,2c, H2
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.90	1	09/10/24 10:00	09/12/24 17:50	191-24-2	
Benzo(g,h,i)perylene	ND	ug/L	1.0	0.80	1	09/17/24 09:00	09/18/24 14:30	191-24-2	1c,2c, H2
Benzo(k)fluoranthene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 17:50	207-08-9	
Benzo(k)fluoranthene	ND	ug/L	1.0	0.72	1	09/17/24 09:00	09/18/24 14:30	207-08-9	1c,2c, H2
Benzoic acid	**10.6J**	ug/L	17.0	4.9	1	09/10/24 10:00	09/12/24 17:50	65-85-0	
Benzoic acid	ND	ug/L	15.0	4.3	1	09/17/24 09:00	09/18/24 14:30	65-85-0	1c,2c, CL,H2
Benzyl alcohol	ND	ug/L	1.1	1.1	1	09/10/24 10:00	09/12/24 17:50	100-51-6	
Benzyl alcohol	ND	ug/L	1.0	0.98	1	09/17/24 09:00	09/18/24 14:30	100-51-6	1c,2c, H2
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 17:50	101-55-3	
4-Bromophenylphenyl ether	ND	ug/L	1.0	0.68	1	09/17/24 09:00	09/18/24 14:30	101-55-3	1c,2c, H2
Butylbenzylphthalate	ND	ug/L	2.8	0.81	1	09/10/24 10:00	09/12/24 17:50	85-68-7	
Butylbenzylphthalate	ND	ug/L	2.5	0.71	1	09/17/24 09:00	09/18/24 14:30	85-68-7	1c,2c, H2
Carbazole	ND	ug/L	1.1	0.80	1	09/10/24 10:00	09/12/24 17:50	86-74-8	
Carbazole	ND	ug/L	1.0	0.70	1	09/17/24 09:00	09/18/24 14:30	86-74-8	1c,2c, H2
4-Chloro-3-methylphenol	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 17:50	59-50-7	
4-Chloro-3-methylphenol	ND	ug/L	1.0	0.63	1	09/17/24 09:00	09/18/24 14:30	59-50-7	1c,2c, H2
4-Chloroaniline	ND	ug/L	1.1	0.57	1	09/10/24 10:00	09/12/24 17:50	106-47-8	
4-Chloroaniline	ND	ug/L	1.0	0.50	1	09/17/24 09:00	09/18/24 14:30	106-47-8	1c,2c, H2
bis(2-Chloroethoxy)methane	**4.4**	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 17:50	111-91-1	
bis(2-Chloroethoxy)methane	**5.4**	ug/L	1.0	0.58	1	09/17/24 09:00	09/18/24 14:30	111-91-1	1c,2c, H2
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 17:50	111-44-4	
bis(2-Chloroethyl) ether	ND	ug/L	1.0	0.53	1	09/17/24 09:00	09/18/24 14:30	111-44-4	1c,2c, H2
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 17:50	108-60-1	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.0	0.62	1	09/17/24 09:00	09/18/24 14:30	108-60-1	1c,2c, H2
2-Chloronaphthalene	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 17:50	91-58-7	
2-Chloronaphthalene	ND	ug/L	1.0	0.66	1	09/17/24 09:00	09/18/24 14:30	91-58-7	1c,2c, H2

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-4-01-1034 **Lab ID: 30715797004** Collected: 09/05/24 11:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
2-Chlorophenol	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 17:50	95-57-8	
2-Chlorophenol	ND	ug/L	1.0	0.59	1	09/17/24 09:00	09/18/24 14:30	95-57-8	1c,2c, H2
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 17:50	7005-72-3	
4-Chlorophenylphenyl ether	ND	ug/L	1.0	0.60	1	09/17/24 09:00	09/18/24 14:30	7005-72-3	1c,2c, H2
Chrysene	ND	ug/L	1.1	0.91	1	09/10/24 10:00	09/12/24 17:50	218-01-9	
Chrysene	ND	ug/L	1.0	0.80	1	09/17/24 09:00	09/18/24 14:30	218-01-9	1c,2c, H2
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 17:50	53-70-3	
Dibenz(a,h)anthracene	ND	ug/L	1.0	0.76	1	09/17/24 09:00	09/18/24 14:30	53-70-3	1c,2c, H2
Dibenzofuran	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 17:50	132-64-9	
Dibenzofuran	ND	ug/L	1.0	0.58	1	09/17/24 09:00	09/18/24 14:30	132-64-9	1c,2c, H2
1,2-Dichlorobenzene	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 17:50	95-50-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.60	1	09/17/24 09:00	09/18/24 14:30	95-50-1	1c,2c, H2
1,3-Dichlorobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 17:50	541-73-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.56	1	09/17/24 09:00	09/18/24 14:30	541-73-1	1c,2c, H2
1,4-Dichlorobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 17:50	106-46-7	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.56	1	09/17/24 09:00	09/18/24 14:30	106-46-7	1c,2c, H2
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.92	1	09/10/24 10:00	09/12/24 17:50	91-94-1	
3,3'-Dichlorobenzidine	ND	ug/L	1.0	0.81	1	09/17/24 09:00	09/18/24 14:30	91-94-1	1c,2c, H2
2,4-Dichlorophenol	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 17:50	120-83-2	
2,4-Dichlorophenol	ND	ug/L	1.0	0.61	1	09/17/24 09:00	09/18/24 14:30	120-83-2	1c,2c, H2
Diethylphthalate	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 17:50	84-66-2	
Diethylphthalate	ND	ug/L	1.0	0.64	1	09/17/24 09:00	09/18/24 14:30	84-66-2	1c,2c, H2
2,4-Dimethylphenol	**13.1**	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 17:50	105-67-9	
2,4-Dimethylphenol	**16.6**	ug/L	1.0	0.64	1	09/17/24 09:00	09/18/24 14:30	105-67-9	1c,2c, CH,H2
Dimethylphthalate	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 17:50	131-11-3	
Dimethylphthalate	ND	ug/L	1.0	0.64	1	09/17/24 09:00	09/18/24 14:30	131-11-3	1c,2c, H2
Di-n-butylphthalate	ND	ug/L	1.1	0.91	1	09/10/24 10:00	09/12/24 17:50	84-74-2	
Di-n-butylphthalate	ND	ug/L	1.0	0.80	1	09/17/24 09:00	09/18/24 14:30	84-74-2	1c,2c, H2
4,6-Dinitro-2-methylphenol	ND	ug/L	2.8	2.0	1	09/10/24 10:00	09/12/24 17:50	534-52-1	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.5	1.7	1	09/17/24 09:00	09/18/24 14:30	534-52-1	1c,2c, H2
2,4-Dinitrophenol	ND	ug/L	2.8	2.7	1	09/10/24 10:00	09/12/24 17:50	51-28-5	CH
2,4-Dinitrophenol	ND	ug/L	2.5	2.4	1	09/17/24 09:00	09/18/24 14:30	51-28-5	1c,2c, CL,H2
2,4-Dinitrotoluene	ND	ug/L	1.1	0.53	1	09/10/24 10:00	09/12/24 17:50	121-14-2	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-4-01-1034 **Lab ID: 30715797004** Collected: 09/05/24 11:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
2,4-Dinitrotoluene	ND	ug/L	1.0	0.46	1	09/17/24 09:00	09/18/24 14:30	121-14-2	1c,2c,H2
2,6-Dinitrotoluene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 17:50	606-20-2	
2,6-Dinitrotoluene	ND	ug/L	1.0	0.55	1	09/17/24 09:00	09/18/24 14:30	606-20-2	1c,2c,H2
Di-n-octylphthalate	ND	ug/L	2.8	1.3	1	09/10/24 10:00	09/12/24 17:50	117-84-0	
Di-n-octylphthalate	ND	ug/L	2.5	1.1	1	09/17/24 09:00	09/18/24 14:30	117-84-0	1c,2c,H2
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.8	1.7	1	09/10/24 10:00	09/12/24 17:50	117-81-7	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.5	1.5	1	09/17/24 09:00	09/18/24 14:30	117-81-7	1c,2c,H2
Fluoranthene	ND	ug/L	1.1	0.80	1	09/10/24 10:00	09/12/24 17:50	206-44-0	
Fluoranthene	ND	ug/L	1.0	0.71	1	09/17/24 09:00	09/18/24 14:30	206-44-0	1c,2c,H2
Fluorene	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 17:50	86-73-7	
Fluorene	ND	ug/L	1.0	0.61	1	09/17/24 09:00	09/18/24 14:30	86-73-7	1c,2c,H2
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 17:50	87-68-3	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.60	1	09/17/24 09:00	09/18/24 14:30	87-68-3	1c,2c,H2
Hexachlorobenzene	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 17:50	118-74-1	
Hexachlorobenzene	ND	ug/L	1.0	0.68	1	09/17/24 09:00	09/18/24 14:30	118-74-1	1c,2c,H2
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 17:50	77-47-4	CH
Hexachlorocyclopentadiene	ND	ug/L	1.0	0.57	1	09/17/24 09:00	09/18/24 14:30	77-47-4	1c,2c,H2
Hexachloroethane	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 17:50	67-72-1	
Hexachloroethane	ND	ug/L	1.0	0.57	1	09/17/24 09:00	09/18/24 14:30	67-72-1	1c,2c,H2
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.79	1	09/10/24 10:00	09/12/24 17:50	193-39-5	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.0	0.70	1	09/17/24 09:00	09/18/24 14:30	193-39-5	1c,2c,H2
Isophorone	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 17:50	78-59-1	
Isophorone	ND	ug/L	1.0	0.60	1	09/17/24 09:00	09/18/24 14:30	78-59-1	1c,2c,H2
1-Methylnaphthalene	**12.5**	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 17:50	90-12-0	
1-Methylnaphthalene	**19.3**	ug/L	1.0	0.58	1	09/17/24 09:00	09/18/24 14:30	90-12-0	1c,2c,H2
2-Methylnaphthalene	**7.8**	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 17:50	91-57-6	
2-Methylnaphthalene	**11.9**	ug/L	1.0	0.59	1	09/17/24 09:00	09/18/24 14:30	91-57-6	1c,2c,H2
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.56	1	09/10/24 10:00	09/12/24 17:50	95-48-7	
2-Methylphenol(o-Cresol)	**0.52J**	ug/L	1.0	0.49	1	09/17/24 09:00	09/18/24 14:30	95-48-7	1c,2c,H2
3&4-Methylphenol(m&p Cresol)	**1.3J**	ug/L	2.3	1.0	1	09/10/24 10:00	09/12/24 17:50		
3&4-Methylphenol(m&p Cresol)	**1.4J**	ug/L	2.0	0.89	1	09/17/24 09:00	09/18/24 14:30		1c,2c,H2
Naphthalene	**30.6**	ug/L	2.5	0.67	1	09/17/24 09:00	09/18/24 14:30	91-20-3	1c,2c,E,H2
2-Nitroaniline	ND	ug/L	2.8	1.4	1	09/10/24 10:00	09/12/24 17:50	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-4-01-1034 **Lab ID: 30715797004** Collected: 09/05/24 11:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
2-Nitroaniline	ND	ug/L	2.5	1.2	1	09/17/24 09:00	09/18/24 14:30	88-74-4	1c,2c, H2
3-Nitroaniline	ND	ug/L	2.8	1.5	1	09/10/24 10:00	09/12/24 17:50	99-09-2	
3-Nitroaniline	ND	ug/L	2.5	1.4	1	09/17/24 09:00	09/18/24 14:30	99-09-2	1c,2c, H2
4-Nitroaniline	ND	ug/L	2.8	1.6	1	09/10/24 10:00	09/12/24 17:50	100-01-6	
4-Nitroaniline	ND	ug/L	2.5	1.4	1	09/17/24 09:00	09/18/24 14:30	100-01-6	1c,2c, H2
Nitrobenzene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 17:50	98-95-3	
Nitrobenzene	ND	ug/L	1.0	0.59	1	09/17/24 09:00	09/18/24 14:30	98-95-3	1c,2c, H2
2-Nitrophenol	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 17:50	88-75-5	
2-Nitrophenol	ND	ug/L	1.0	0.67	1	09/17/24 09:00	09/18/24 14:30	88-75-5	1c,2c, H2
4-Nitrophenol	ND	ug/L	1.1	0.40	1	09/10/24 10:00	09/12/24 17:50	100-02-7	
4-Nitrophenol	ND	ug/L	1.0	0.35	1	09/17/24 09:00	09/18/24 14:30	100-02-7	1c,2c, H2
N-Nitrosodimethylamine	ND	ug/L	1.1	0.39	1	09/10/24 10:00	09/12/24 17:50	62-75-9	
N-Nitrosodimethylamine	ND	ug/L	1.0	0.34	1	09/17/24 09:00	09/18/24 14:30	62-75-9	1c,2c, H2,L1
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 17:50	621-64-7	
N-Nitroso-di-n-propylamine	ND	ug/L	1.0	0.58	1	09/17/24 09:00	09/18/24 14:30	621-64-7	1c,2c, H2
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 17:50	86-30-6	
N-Nitrosodiphenylamine	ND	ug/L	1.0	0.68	1	09/17/24 09:00	09/18/24 14:30	86-30-6	1c,2c, H2
Pentachlorophenol	ND	ug/L	2.8	1.7	1	09/10/24 10:00	09/12/24 17:50	87-86-5	
Pentachlorophenol	ND	ug/L	2.5	1.5	1	09/17/24 09:00	09/18/24 14:30	87-86-5	1c,2c, H2
Phenanthrene	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 17:50	85-01-8	
Phenanthrene	ND	ug/L	1.0	0.66	1	09/17/24 09:00	09/18/24 14:30	85-01-8	1c,2c, H2
Phenol	**0.57J**	ug/L	1.1	0.29	1	09/10/24 10:00	09/12/24 17:50	108-95-2	
Phenol	**0.88J**	ug/L	1.0	0.25	1	09/17/24 09:00	09/18/24 14:30	108-95-2	1c,2c, H2
Pyrene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 17:50	129-00-0	
Pyrene	ND	ug/L	1.0	0.76	1	09/17/24 09:00	09/18/24 14:30	129-00-0	1c,2c, H2
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 17:50	120-82-1	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.59	1	09/17/24 09:00	09/18/24 14:30	120-82-1	1c,2c, H2
2,4,5-Trichlorophenol	ND	ug/L	2.8	1.9	1	09/10/24 10:00	09/12/24 17:50	95-95-4	
2,4,5-Trichlorophenol	ND	ug/L	2.5	1.6	1	09/17/24 09:00	09/18/24 14:30	95-95-4	1c,2c, H2
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 17:50	88-06-2	
2,4,6-Trichlorophenol	ND	ug/L	1.0	0.59	1	09/17/24 09:00	09/18/24 14:30	88-06-2	1c,2c, H2
Surrogates									
Nitrobenzene-d5 (S)	0	%.	43-123		1	09/10/24 10:00	09/12/24 17:50	4165-60-0	SR
Nitrobenzene-d5 (S)	237	%.	43-123		1	09/17/24 09:00	09/18/24 14:30	4165-60-0	ST

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-4-01-1034 **Lab ID: 30715797004** Collected: 09/05/24 11:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Surrogates									
2-Fluorobiphenyl (S)	65	%.	36-126		1	09/17/24 09:00	09/18/24 14:30	321-60-8	
2-Fluorobiphenyl (S)	60	%.	36-126		1	09/10/24 10:00	09/12/24 17:50	321-60-8	
Terphenyl-d14 (S)	93	%.	56-129		1	09/10/24 10:00	09/12/24 17:50	1718-51-0	
Terphenyl-d14 (S)	94	%.	56-129		1	09/17/24 09:00	09/18/24 14:30	1718-51-0	
Phenol-d6 (S)	34	%.	11-56		1	09/10/24 10:00	09/12/24 17:50	13127-88-3	
Phenol-d6 (S)	46	%.	11-56		1	09/17/24 09:00	09/18/24 14:30	13127-88-3	
2-Fluorophenol (S)	53	%.	25-80		1	09/17/24 09:00	09/18/24 14:30	367-12-4	
2-Fluorophenol (S)	42	%.	25-80		1	09/10/24 10:00	09/12/24 17:50	367-12-4	
2,4,6-Tribromophenol (S)	100	%.	44-136		1	09/17/24 09:00	09/18/24 14:30	118-79-6	
2,4,6-Tribromophenol (S)	93	%.	44-136		1	09/10/24 10:00	09/12/24 17:50	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	**115**	ug/L	50.0	11.4	1		09/13/24 16:56	67-64-1	3c
Benzene	**55.5**	ug/L	1.0	0.34	1		09/13/24 16:56	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 16:56	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 16:56	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 16:56	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 16:56	74-83-9	CL
TOTAL BTEX	**1620**	ug/L	60.0	24.0	10		09/16/24 15:57		
2-Butanone (MEK)	**33.5**	ug/L	10.0	1.5	1		09/13/24 16:56	78-93-3	
Carbon disulfide	**1.5**	ug/L	1.0	0.32	1		09/13/24 16:56	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 16:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 16:56	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 16:56	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		09/13/24 16:56	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 16:56	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 16:56	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 16:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 16:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 16:56	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 16:56	75-34-3	IL
1,2-Dichloroethane	**1.0**	ug/L	1.0	0.33	1		09/13/24 16:56	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 16:56	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 16:56	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 16:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 16:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 16:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 16:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 16:56	10061-02-6	
Ethylbenzene	**424**	ug/L	10.0	4.0	10		09/16/24 15:57	100-41-4	
2-Hexanone	**18.9**	ug/L	10.0	0.58	1		09/13/24 16:56	591-78-6	
Isopropylbenzene (Cumene)	**177**	ug/L	1.0	0.47	1		09/13/24 16:56	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 16:56	75-09-2	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-4-01-1034 **Lab ID: 30715797004** Collected: 09/05/24 11:10 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
4-Methyl-2-pentanone (MIBK)	**17.5**	ug/L	10.0	0.42	1		09/13/24 16:56	108-10-1	
Methyl-tert-butyl ether	**0.59J**	ug/L	1.0	0.25	1		09/13/24 16:56	1634-04-4	
Naphthalene	**96.9**	ug/L	4.0	2.1	1		09/13/24 16:56	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 16:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 16:56	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 16:56	127-18-4	
Toluene	**56.3**	ug/L	1.0	0.32	1		09/13/24 16:56	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 16:56	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 16:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 16:56	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 16:56	79-01-6	
1,2,4-Trimethylbenzene	**938**	ug/L	10.0	6.3	10		09/16/24 15:57	95-63-6	
1,3,5-Trimethylbenzene	**335**	ug/L	1.0	0.45	1		09/13/24 16:56	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 16:56	75-01-4	
Xylene (Total)	**1080**	ug/L	30.0	13.5	10		09/16/24 15:57	1330-20-7	
m&p-Xylene	**889**	ug/L	20.0	9.4	10		09/16/24 15:57	179601-23-1	
o-Xylene	**195**	ug/L	1.0	0.41	1		09/13/24 16:56	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%.	70-130		1		09/13/24 16:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130		1		09/13/24 16:56	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		1		09/13/24 16:56	2037-26-5	
Dibromofluoromethane (S)	98	%.	70-130		1		09/13/24 16:56	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-01-1035 **Lab ID: 30715797005** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:25	7440-38-2	
Barium, Dissolved	**190**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:25	7440-39-3	
Cadmium, Dissolved	**2.0**	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:25	7440-43-9	
Chromium, Dissolved	**7.2**	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:25	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:25	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:25	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:25	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 11:58	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.11	1	09/10/24 10:00	09/11/24 17:18	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:18	208-96-8	
Anthracene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:18	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.093	1	09/10/24 10:00	09/11/24 17:18	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.090	1	09/10/24 10:00	09/11/24 17:18	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:18	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.084	1	09/10/24 10:00	09/11/24 17:18	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.048	1	09/10/24 10:00	09/11/24 17:18	207-08-9	
Chrysene	ND	ug/L	0.11	0.086	1	09/10/24 10:00	09/11/24 17:18	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.092	1	09/10/24 10:00	09/11/24 17:18	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:18	206-44-0	
Fluorene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:18	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.090	1	09/10/24 10:00	09/11/24 17:18	193-39-5	
Naphthalene	ND	ug/L	0.23	0.22	1	09/10/24 10:00	09/11/24 17:18	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:18	85-01-8	
Pyrene	ND	ug/L	0.11	0.099	1	09/10/24 10:00	09/11/24 17:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	48	%.	43-95		1	09/10/24 10:00	09/11/24 17:18	321-60-8	
Terphenyl-d14 (S)	84	%.	47-118		1	09/10/24 10:00	09/11/24 17:18	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:09	83-32-9	
Acenaphthylene	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 18:09	208-96-8	
Anthracene	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 18:09	120-12-7	
Azobenzene	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 18:09	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.1	0.89	1	09/10/24 10:00	09/12/24 18:09	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 18:09	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 18:09	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.91	1	09/10/24 10:00	09/12/24 18:09	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 18:09	207-08-9	

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-01-1035 **Lab ID: 30715797005** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	17.2	5.0	1	09/10/24 10:00	09/12/24 18:09	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1.1	1	09/10/24 10:00	09/12/24 18:09	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.78	1	09/10/24 10:00	09/12/24 18:09	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.9	0.82	1	09/10/24 10:00	09/12/24 18:09	85-68-7	
Carbazole	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 18:09	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 18:09	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	0.58	1	09/10/24 10:00	09/12/24 18:09	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 18:09	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 18:09	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 18:09	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 18:09	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 18:09	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:09	7005-72-3	
Chrysene	ND	ug/L	1.1	0.92	1	09/10/24 10:00	09/12/24 18:09	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 18:09	53-70-3	
Dibenzofuran	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 18:09	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:09	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.93	1	09/10/24 10:00	09/12/24 18:09	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 18:09	120-83-2	
Diethylphthalate	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 18:09	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 18:09	105-67-9	
Dimethylphthalate	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 18:09	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.1	0.92	1	09/10/24 10:00	09/12/24 18:09	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.9	2.0	1	09/10/24 10:00	09/12/24 18:09	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.9	2.7	1	09/10/24 10:00	09/12/24 18:09	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.1	0.53	1	09/10/24 10:00	09/12/24 18:09	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:09	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.9	1.3	1	09/10/24 10:00	09/12/24 18:09	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.9	1.7	1	09/10/24 10:00	09/12/24 18:09	117-81-7	
Fluoranthene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 18:09	206-44-0	
Fluorene	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 18:09	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:09	87-68-3	
Hexachlorobenzene	ND	ug/L	1.1	0.78	1	09/10/24 10:00	09/12/24 18:09	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 18:09	77-47-4	CH
Hexachloroethane	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 18:09	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.80	1	09/10/24 10:00	09/12/24 18:09	193-39-5	
Isophorone	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 18:09	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 18:09	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 18:09	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.57	1	09/10/24 10:00	09/12/24 18:09	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.3	1.0	1	09/10/24 10:00	09/12/24 18:09		
Naphthalene	ND	ug/L	2.9	0.77	1	09/10/24 10:00	09/12/24 18:09	91-20-3	
2-Nitroaniline	ND	ug/L	2.9	1.4	1	09/10/24 10:00	09/12/24 18:09	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-01-1035 **Lab ID: 30715797005** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.9	1.6	1	09/10/24 10:00	09/12/24 18:09	99-09-2	
4-Nitroaniline	ND	ug/L	2.9	1.6	1	09/10/24 10:00	09/12/24 18:09	100-01-6	
Nitrobenzene	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 18:09	98-95-3	
2-Nitrophenol	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 18:09	88-75-5	
4-Nitrophenol	ND	ug/L	1.1	0.41	1	09/10/24 10:00	09/12/24 18:09	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.1	0.39	1	09/10/24 10:00	09/12/24 18:09	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 18:09	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.78	1	09/10/24 10:00	09/12/24 18:09	86-30-6	
Pentachlorophenol	ND	ug/L	2.9	1.7	1	09/10/24 10:00	09/12/24 18:09	87-86-5	
Phenanthrene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 18:09	85-01-8	
Phenol	ND	ug/L	1.1	0.29	1	09/10/24 10:00	09/12/24 18:09	108-95-2	
Pyrene	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 18:09	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 18:09	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.9	1.9	1	09/10/24 10:00	09/12/24 18:09	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 18:09	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	53	%.	43-123		1	09/10/24 10:00	09/12/24 18:09	4165-60-0	
2-Fluorobiphenyl (S)	48	%.	36-126		1	09/10/24 10:00	09/12/24 18:09	321-60-8	
Terphenyl-d14 (S)	87	%.	56-129		1	09/10/24 10:00	09/12/24 18:09	1718-51-0	
Phenol-d6 (S)	18	%.	11-56		1	09/10/24 10:00	09/12/24 18:09	13127-88-3	
2-Fluorophenol (S)	28	%.	25-80		1	09/10/24 10:00	09/12/24 18:09	367-12-4	
2,4,6-Tribromophenol (S)	47	%.	44-136		1	09/10/24 10:00	09/12/24 18:09	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 17:22	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 17:22	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 17:22	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 17:22	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 17:22	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 17:22	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 17:22		
2-Butanone (MEK)	**1.5J**	ug/L	10.0	1.5	1		09/13/24 17:22	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 17:22	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 17:22	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 17:22	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 17:22	75-00-3	
Chloroform	**10.4**	ug/L	1.0	0.93	1		09/13/24 17:22	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 17:22	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 17:22	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 17:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 17:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 17:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 17:22	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 17:22	107-06-2	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-01-1035 **Lab ID: 30715797005** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 17:22	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 17:22	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 17:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 17:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 17:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 17:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 17:22	10061-02-6	
Ethylbenzene	**0.46J**	ug/L	1.0	0.40	1		09/13/24 17:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 17:22	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 17:22	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 17:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 17:22	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 17:22	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 17:22	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 17:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 17:22	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 17:22	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 17:22	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 17:22	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 17:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 17:22	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 17:22	79-01-6	
1,2,4-Trimethylbenzene	**2.1**	ug/L	1.0	0.63	1		09/13/24 17:22	95-63-6	
1,3,5-Trimethylbenzene	**0.71J**	ug/L	1.0	0.45	1		09/13/24 17:22	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 17:22	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 17:22	1330-20-7	
m&p-Xylene	**1.1J**	ug/L	2.0	0.94	1		09/13/24 17:22	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 17:22	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%.	70-130		1		09/13/24 17:22	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1		09/13/24 17:22	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		1		09/13/24 17:22	2037-26-5	
Dibromofluoromethane (S)	104	%.	70-130		1		09/13/24 17:22	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-02-1036 **Lab ID: 30715797006** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:31	7440-38-2	
Barium, Dissolved	**189**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:31	7440-39-3	
Cadmium, Dissolved	**2.2**	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:31	7440-43-9	
Chromium, Dissolved	**5.5**	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:31	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:31	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:31	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:31	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 12:00	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 17:35	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 17:35	208-96-8	
Anthracene	ND	ug/L	0.11	0.095	1	09/10/24 10:00	09/11/24 17:35	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.088	1	09/10/24 10:00	09/11/24 17:35	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 17:35	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.094	1	09/10/24 10:00	09/11/24 17:35	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.079	1	09/10/24 10:00	09/11/24 17:35	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.045	1	09/10/24 10:00	09/11/24 17:35	207-08-9	
Chrysene	ND	ug/L	0.11	0.081	1	09/10/24 10:00	09/11/24 17:35	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.087	1	09/10/24 10:00	09/11/24 17:35	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 17:35	206-44-0	
Fluorene	ND	ug/L	0.11	0.098	1	09/10/24 10:00	09/11/24 17:35	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 17:35	193-39-5	
Naphthalene	ND	ug/L	0.22	0.21	1	09/10/24 10:00	09/11/24 17:35	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 17:35	85-01-8	
Pyrene	ND	ug/L	0.11	0.093	1	09/10/24 10:00	09/11/24 17:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%.	43-95		1	09/10/24 10:00	09/11/24 17:35	321-60-8	
Terphenyl-d14 (S)	84	%.	47-118		1	09/10/24 10:00	09/11/24 17:35	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:29	83-32-9	
Acenaphthylene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:29	208-96-8	
Anthracene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 18:29	120-12-7	
Azobenzene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 18:29	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.1	0.84	1	09/10/24 10:00	09/12/24 18:29	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 18:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 18:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 18:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	0.78	1	09/10/24 10:00	09/12/24 18:29	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-02-1036 **Lab ID: 30715797006** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	16.3	4.7	1	09/10/24 10:00	09/12/24 18:29	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1.1	1	09/10/24 10:00	09/12/24 18:29	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 18:29	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.7	0.78	1	09/10/24 10:00	09/12/24 18:29	85-68-7	
Carbazole	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 18:29	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:29	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	0.54	1	09/10/24 10:00	09/12/24 18:29	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:29	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.58	1	09/10/24 10:00	09/12/24 18:29	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 18:29	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 18:29	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:29	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:29	7005-72-3	
Chrysene	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 18:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 18:29	53-70-3	
Dibenzofuran	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:29	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 18:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 18:29	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.88	1	09/10/24 10:00	09/12/24 18:29	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 18:29	120-83-2	
Diethylphthalate	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:29	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 18:29	105-67-9	
Dimethylphthalate	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:29	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 18:29	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.7	1.9	1	09/10/24 10:00	09/12/24 18:29	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.7	2.6	1	09/10/24 10:00	09/12/24 18:29	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.1	0.51	1	09/10/24 10:00	09/12/24 18:29	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.1	0.60	1	09/10/24 10:00	09/12/24 18:29	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.7	1.2	1	09/10/24 10:00	09/12/24 18:29	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.7	1.6	1	09/10/24 10:00	09/12/24 18:29	117-81-7	
Fluoranthene	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 18:29	206-44-0	
Fluorene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 18:29	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:29	87-68-3	
Hexachlorobenzene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 18:29	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 18:29	77-47-4	CH
Hexachloroethane	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 18:29	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 18:29	193-39-5	
Isophorone	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 18:29	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:29	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:29	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.53	1	09/10/24 10:00	09/12/24 18:29	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.2	0.96	1	09/10/24 10:00	09/12/24 18:29		
Naphthalene	ND	ug/L	2.7	0.72	1	09/10/24 10:00	09/12/24 18:29	91-20-3	
2-Nitroaniline	ND	ug/L	2.7	1.4	1	09/10/24 10:00	09/12/24 18:29	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-02-1036 **Lab ID: 30715797006** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 18:29	99-09-2	
4-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 18:29	100-01-6	
Nitrobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:29	98-95-3	
2-Nitrophenol	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 18:29	88-75-5	
4-Nitrophenol	ND	ug/L	1.1	0.38	1	09/10/24 10:00	09/12/24 18:29	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.1	0.37	1	09/10/24 10:00	09/12/24 18:29	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:29	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 18:29	86-30-6	
Pentachlorophenol	ND	ug/L	2.7	1.7	1	09/10/24 10:00	09/12/24 18:29	87-86-5	
Phenanthrene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 18:29	85-01-8	
Phenol	ND	ug/L	1.1	0.27	1	09/10/24 10:00	09/12/24 18:29	108-95-2	
Pyrene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 18:29	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:29	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.7	1.8	1	09/10/24 10:00	09/12/24 18:29	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:29	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	64	%.	43-123		1	09/10/24 10:00	09/12/24 18:29	4165-60-0	
2-Fluorobiphenyl (S)	58	%.	36-126		1	09/10/24 10:00	09/12/24 18:29	321-60-8	
Terphenyl-d14 (S)	86	%.	56-129		1	09/10/24 10:00	09/12/24 18:29	1718-51-0	
Phenol-d6 (S)	19	%.	11-56		1	09/10/24 10:00	09/12/24 18:29	13127-88-3	
2-Fluorophenol (S)	28	%.	25-80		1	09/10/24 10:00	09/12/24 18:29	367-12-4	
2,4,6-Tribromophenol (S)	57	%.	44-136		1	09/10/24 10:00	09/12/24 18:29	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 17:47	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 17:47	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 17:47	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 17:47	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 17:47	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 17:47	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 17:47		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 17:47	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 17:47	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 17:47	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 17:47	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 17:47	75-00-3	
Chloroform	**10.7**	ug/L	1.0	0.93	1		09/13/24 17:47	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 17:47	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 17:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 17:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 17:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 17:47	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 17:47	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 17:47	107-06-2	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-3-02-1036 **Lab ID: 30715797006** Collected: 09/05/24 14:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 17:47	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 17:47	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 17:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 17:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 17:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 17:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 17:47	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 17:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 17:47	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 17:47	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 17:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 17:47	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 17:47	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 17:47	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 17:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 17:47	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 17:47	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 17:47	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 17:47	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 17:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 17:47	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 17:47	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		09/13/24 17:47	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 17:47	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 17:47	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 17:47	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 17:47	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 17:47	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%.	70-130		1		09/13/24 17:47	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130		1		09/13/24 17:47	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		1		09/13/24 17:47	2037-26-5	
Dibromofluoromethane (S)	104	%.	70-130		1		09/13/24 17:47	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-7-01-1037 **Lab ID: 30715797007** Collected: 09/05/24 16:55 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:33	7440-38-2	
Barium, Dissolved	**246**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:33	7440-39-3	
Cadmium, Dissolved	ND	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:33	7440-43-9	
Chromium, Dissolved	**5.6**	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:33	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:33	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:33	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:33	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 12:03	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.099	1	09/10/24 10:00	09/11/24 17:51	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.094	1	09/10/24 10:00	09/11/24 17:51	208-96-8	
Anthracene	ND	ug/L	0.11	0.093	1	09/10/24 10:00	09/11/24 17:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.086	1	09/10/24 10:00	09/11/24 17:51	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.083	1	09/10/24 10:00	09/11/24 17:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.092	1	09/10/24 10:00	09/11/24 17:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.078	1	09/10/24 10:00	09/11/24 17:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.044	1	09/10/24 10:00	09/11/24 17:51	207-08-9	
Chrysene	ND	ug/L	0.11	0.079	1	09/10/24 10:00	09/11/24 17:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 17:51	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.094	1	09/10/24 10:00	09/11/24 17:51	206-44-0	
Fluorene	ND	ug/L	0.11	0.095	1	09/10/24 10:00	09/11/24 17:51	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.083	1	09/10/24 10:00	09/11/24 17:51	193-39-5	
Naphthalene	ND	ug/L	0.21	0.20	1	09/10/24 10:00	09/11/24 17:51	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.094	1	09/10/24 10:00	09/11/24 17:51	85-01-8	
Pyrene	ND	ug/L	0.11	0.091	1	09/10/24 10:00	09/11/24 17:51	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	58	%.	43-95		1	09/10/24 10:00	09/11/24 17:51	321-60-8	
Terphenyl-d14 (S)	89	%.	47-118		1	09/10/24 10:00	09/11/24 17:51	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:48	83-32-9	
Acenaphthylene	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 18:48	208-96-8	
Anthracene	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 18:48	120-12-7	
Azobenzene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:48	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 18:48	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 18:48	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	0.79	1	09/10/24 10:00	09/12/24 18:48	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.85	1	09/10/24 10:00	09/12/24 18:48	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 18:48	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-7-01-1037 **Lab ID: 30715797007** Collected: 09/05/24 16:55 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	16.0	4.6	1	09/10/24 10:00	09/12/24 18:48	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1.0	1	09/10/24 10:00	09/12/24 18:48	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 18:48	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.7	0.76	1	09/10/24 10:00	09/12/24 18:48	85-68-7	
Carbazole	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 18:48	86-74-8	
4-Chloro-3-methylphenol	**1.5**	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 18:48	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	0.53	1	09/10/24 10:00	09/12/24 18:48	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 18:48	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.57	1	09/10/24 10:00	09/12/24 18:48	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 18:48	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 18:48	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 18:48	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:48	7005-72-3	
Chrysene	ND	ug/L	1.1	0.85	1	09/10/24 10:00	09/12/24 18:48	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 18:48	53-70-3	
Dibenzofuran	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 18:48	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.1	0.60	1	09/10/24 10:00	09/12/24 18:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.1	0.60	1	09/10/24 10:00	09/12/24 18:48	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 18:48	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:48	120-83-2	
Diethylphthalate	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 18:48	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 18:48	105-67-9	
Dimethylphthalate	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 18:48	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 18:48	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.7	1.9	1	09/10/24 10:00	09/12/24 18:48	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.7	2.5	1	09/10/24 10:00	09/12/24 18:48	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.1	0.49	1	09/10/24 10:00	09/12/24 18:48	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.1	0.59	1	09/10/24 10:00	09/12/24 18:48	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.7	1.2	1	09/10/24 10:00	09/12/24 18:48	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.7	1.6	1	09/10/24 10:00	09/12/24 18:48	117-81-7	
Fluoranthene	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 18:48	206-44-0	
Fluorene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 18:48	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:48	87-68-3	
Hexachlorobenzene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 18:48	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 18:48	77-47-4	CH
Hexachloroethane	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 18:48	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 18:48	193-39-5	
Isophorone	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 18:48	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 18:48	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 18:48	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.52	1	09/10/24 10:00	09/12/24 18:48	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.1	0.94	1	09/10/24 10:00	09/12/24 18:48		
Naphthalene	ND	ug/L	2.7	0.71	1	09/10/24 10:00	09/12/24 18:48	91-20-3	
2-Nitroaniline	ND	ug/L	2.7	1.3	1	09/10/24 10:00	09/12/24 18:48	88-74-4	

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(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-7-01-1037 **Lab ID: 30715797007** Collected: 09/05/24 16:55 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.7	1.4	1	09/10/24 10:00	09/12/24 18:48	99-09-2	
4-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 18:48	100-01-6	
Nitrobenzene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:48	98-95-3	
2-Nitrophenol	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 18:48	88-75-5	
4-Nitrophenol	ND	ug/L	1.1	0.38	1	09/10/24 10:00	09/12/24 18:48	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.1	0.36	1	09/10/24 10:00	09/12/24 18:48	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 18:48	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 18:48	86-30-6	
Pentachlorophenol	ND	ug/L	2.7	1.6	1	09/10/24 10:00	09/12/24 18:48	87-86-5	
Phenanthrene	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 18:48	85-01-8	
Phenol	ND	ug/L	1.1	0.27	1	09/10/24 10:00	09/12/24 18:48	108-95-2	
Pyrene	ND	ug/L	1.1	0.80	1	09/10/24 10:00	09/12/24 18:48	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:48	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.7	1.7	1	09/10/24 10:00	09/12/24 18:48	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 18:48	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	70	%.	43-123		1	09/10/24 10:00	09/12/24 18:48	4165-60-0	
2-Fluorobiphenyl (S)	57	%.	36-126		1	09/10/24 10:00	09/12/24 18:48	321-60-8	
Terphenyl-d14 (S)	94	%.	56-129		1	09/10/24 10:00	09/12/24 18:48	1718-51-0	
Phenol-d6 (S)	21	%.	11-56		1	09/10/24 10:00	09/12/24 18:48	13127-88-3	
2-Fluorophenol (S)	35	%.	25-80		1	09/10/24 10:00	09/12/24 18:48	367-12-4	
2,4,6-Tribromophenol (S)	71	%.	44-136		1	09/10/24 10:00	09/12/24 18:48	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 19:04	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 19:04	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 19:04	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 19:04	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 19:04	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 19:04	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 19:04		
2-Butanone (MEK)	**2.9J**	ug/L	10.0	1.5	1		09/13/24 19:04	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 19:04	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 19:04	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 19:04	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 19:04	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		09/13/24 19:04	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 19:04	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 19:04	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 19:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 19:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 19:04	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 19:04	75-34-3	IL
1,2-Dichloroethane	**1.4**	ug/L	1.0	0.33	1		09/13/24 19:04	107-06-2	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-7-01-1037 **Lab ID: 30715797007** Collected: 09/05/24 16:55 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 19:04	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 19:04	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 19:04	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 19:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 19:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 19:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 19:04	10061-02-6	
Ethylbenzene	**2.2**	ug/L	1.0	0.40	1		09/13/24 19:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 19:04	591-78-6	
Isopropylbenzene (Cumene)	**6.4**	ug/L	1.0	0.47	1		09/13/24 19:04	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 19:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 19:04	108-10-1	
Methyl-tert-butyl ether	**1.2**	ug/L	1.0	0.25	1		09/13/24 19:04	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 19:04	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 19:04	100-42-5	
1,1,2,2-Tetrachloroethane	**2.2**	ug/L	1.0	0.47	1		09/13/24 19:04	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 19:04	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 19:04	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 19:04	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 19:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 19:04	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 19:04	79-01-6	
1,2,4-Trimethylbenzene	**2.4**	ug/L	1.0	0.63	1		09/13/24 19:04	95-63-6	
1,3,5-Trimethylbenzene	**3.2**	ug/L	1.0	0.45	1		09/13/24 19:04	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 19:04	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 19:04	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 19:04	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 19:04	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%.	70-130		1		09/13/24 19:04	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130		1		09/13/24 19:04	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		1		09/13/24 19:04	2037-26-5	
Dibromofluoromethane (S)	105	%.	70-130		1		09/13/24 19:04	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-FB-01-1038 **Lab ID: 30715797008** Collected: 09/06/24 07:20 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 19:29	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 19:29	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 19:29	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 19:29	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 19:29	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 19:29	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 19:29		
2-Butanone (MEK)	**1.6J**	ug/L	10.0	1.5	1		09/13/24 19:29	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 19:29	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 19:29	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 19:29	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 19:29	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		09/13/24 19:29	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 19:29	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 19:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 19:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 19:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 19:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 19:29	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 19:29	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 19:29	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 19:29	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 19:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 19:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 19:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 19:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 19:29	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 19:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 19:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 19:29	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 19:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 19:29	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 19:29	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 19:29	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 19:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 19:29	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 19:29	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 19:29	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 19:29	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 19:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 19:29	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 19:29	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		09/13/24 19:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 19:29	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 19:29	75-01-4	

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(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-FB-01-1038 **Lab ID: 30715797008** Collected: 09/06/24 07:20 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 19:29	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 19:29	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 19:29	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%.	70-130		1		09/13/24 19:29	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1		09/13/24 19:29	17060-07-0	
Toluene-d8 (S)	100	%.	70-130		1		09/13/24 19:29	2037-26-5	
Dibromofluoromethane (S)	108	%.	70-130		1		09/13/24 19:29	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-8-01-1039 **Lab ID: 30715797009** Collected: 09/06/24 08:30 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:35	7440-38-2	
Barium, Dissolved	**92.5**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:35	7440-39-3	
Cadmium, Dissolved	ND	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:35	7440-43-9	
Chromium, Dissolved	**0.49J**	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:35	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:35	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:35	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:35	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 12:05	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 18:07	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 18:07	208-96-8	
Anthracene	ND	ug/L	0.11	0.095	1	09/10/24 10:00	09/11/24 18:07	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.088	1	09/10/24 10:00	09/11/24 18:07	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 18:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.094	1	09/10/24 10:00	09/11/24 18:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.079	1	09/10/24 10:00	09/11/24 18:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.045	1	09/10/24 10:00	09/11/24 18:07	207-08-9	
Chrysene	ND	ug/L	0.11	0.081	1	09/10/24 10:00	09/11/24 18:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.087	1	09/10/24 10:00	09/11/24 18:07	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 18:07	206-44-0	
Fluorene	ND	ug/L	0.11	0.098	1	09/10/24 10:00	09/11/24 18:07	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 18:07	193-39-5	
Naphthalene	ND	ug/L	0.22	0.21	1	09/10/24 10:00	09/11/24 18:07	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 18:07	85-01-8	
Pyrene	ND	ug/L	0.11	0.093	1	09/10/24 10:00	09/11/24 18:07	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	43-95		1	09/10/24 10:00	09/11/24 18:07	321-60-8	
Terphenyl-d14 (S)	74	%.	47-118		1	09/10/24 10:00	09/11/24 18:07	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 19:07	83-32-9	
Acenaphthylene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 19:07	208-96-8	
Anthracene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 19:07	120-12-7	
Azobenzene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 19:07	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.1	0.84	1	09/10/24 10:00	09/12/24 19:07	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 19:07	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 19:07	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 19:07	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	0.78	1	09/10/24 10:00	09/12/24 19:07	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-8-01-1039 **Lab ID: 30715797009** Collected: 09/06/24 08:30 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	16.3	4.7	1	09/10/24 10:00	09/12/24 19:07	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1.1	1	09/10/24 10:00	09/12/24 19:07	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 19:07	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.7	0.78	1	09/10/24 10:00	09/12/24 19:07	85-68-7	
Carbazole	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 19:07	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 19:07	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	0.54	1	09/10/24 10:00	09/12/24 19:07	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 19:07	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.58	1	09/10/24 10:00	09/12/24 19:07	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 19:07	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 19:07	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 19:07	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 19:07	7005-72-3	
Chrysene	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 19:07	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 19:07	53-70-3	
Dibenzofuran	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 19:07	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 19:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 19:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 19:07	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.88	1	09/10/24 10:00	09/12/24 19:07	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 19:07	120-83-2	
Diethylphthalate	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 19:07	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 19:07	105-67-9	
Dimethylphthalate	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 19:07	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 19:07	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.7	1.9	1	09/10/24 10:00	09/12/24 19:07	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.7	2.6	1	09/10/24 10:00	09/12/24 19:07	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.1	0.51	1	09/10/24 10:00	09/12/24 19:07	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.1	0.60	1	09/10/24 10:00	09/12/24 19:07	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.7	1.2	1	09/10/24 10:00	09/12/24 19:07	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.7	1.6	1	09/10/24 10:00	09/12/24 19:07	117-81-7	
Fluoranthene	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 19:07	206-44-0	
Fluorene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 19:07	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 19:07	87-68-3	
Hexachlorobenzene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 19:07	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 19:07	77-47-4	CH
Hexachloroethane	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 19:07	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 19:07	193-39-5	
Isophorone	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 19:07	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 19:07	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 19:07	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.53	1	09/10/24 10:00	09/12/24 19:07	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.2	0.96	1	09/10/24 10:00	09/12/24 19:07		
Naphthalene	ND	ug/L	2.7	0.72	1	09/10/24 10:00	09/12/24 19:07	91-20-3	
2-Nitroaniline	ND	ug/L	2.7	1.4	1	09/10/24 10:00	09/12/24 19:07	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-8-01-1039 **Lab ID: 30715797009** Collected: 09/06/24 08:30 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 19:07	99-09-2	
4-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 19:07	100-01-6	
Nitrobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 19:07	98-95-3	
2-Nitrophenol	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 19:07	88-75-5	
4-Nitrophenol	ND	ug/L	1.1	0.38	1	09/10/24 10:00	09/12/24 19:07	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.1	0.37	1	09/10/24 10:00	09/12/24 19:07	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 19:07	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 19:07	86-30-6	
Pentachlorophenol	ND	ug/L	2.7	1.7	1	09/10/24 10:00	09/12/24 19:07	87-86-5	
Phenanthrene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 19:07	85-01-8	
Phenol	ND	ug/L	1.1	0.27	1	09/10/24 10:00	09/12/24 19:07	108-95-2	
Pyrene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 19:07	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 19:07	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.7	1.8	1	09/10/24 10:00	09/12/24 19:07	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 19:07	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	57	%.	43-123		1	09/10/24 10:00	09/12/24 19:07	4165-60-0	
2-Fluorobiphenyl (S)	55	%.	36-126		1	09/10/24 10:00	09/12/24 19:07	321-60-8	
Terphenyl-d14 (S)	76	%.	56-129		1	09/10/24 10:00	09/12/24 19:07	1718-51-0	
Phenol-d6 (S)	19	%.	11-56		1	09/10/24 10:00	09/12/24 19:07	13127-88-3	
2-Fluorophenol (S)	28	%.	25-80		1	09/10/24 10:00	09/12/24 19:07	367-12-4	
2,4,6-Tribromophenol (S)	55	%.	44-136		1	09/10/24 10:00	09/12/24 19:07	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 13:33	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 13:33	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 13:33	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 13:33	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 13:33	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 13:33	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 13:33		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 13:33	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 13:33	75-15-0	IL,ML
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 13:33	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 13:33	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 13:33	75-00-3	R1
Chloroform	ND	ug/L	1.0	0.93	1		09/13/24 13:33	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 13:33	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 13:33	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 13:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 13:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 13:33	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 13:33	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 13:33	107-06-2	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-8-01-1039 **Lab ID: 30715797009** Collected: 09/06/24 08:30 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 13:33	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 13:33	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 13:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 13:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 13:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 13:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 13:33	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 13:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 13:33	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 13:33	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 13:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 13:33	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 13:33	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 13:33	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 13:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 13:33	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 13:33	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 13:33	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 13:33	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 13:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 13:33	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 13:33	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		09/13/24 13:33	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 13:33	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 13:33	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 13:33	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 13:33	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 13:33	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	70-130		1		09/13/24 13:33	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1		09/13/24 13:33	17060-07-0	
Toluene-d8 (S)	97	%.	70-130		1		09/13/24 13:33	2037-26-5	
Dibromofluoromethane (S)	102	%.	70-130		1		09/13/24 13:33	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-11-01-1040 **Lab ID: 30715797010** Collected: 09/06/24 11:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:45	7440-38-2	
Barium, Dissolved	**45.8**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:45	7440-39-3	
Cadmium, Dissolved	ND	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:45	7440-43-9	
Chromium, Dissolved	**2.5J**	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:45	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:45	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:45	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:45	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 12:17	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 18:56	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.099	1	09/10/24 10:00	09/11/24 18:56	208-96-8	
Anthracene	ND	ug/L	0.11	0.098	1	09/10/24 10:00	09/11/24 18:56	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.091	1	09/10/24 10:00	09/11/24 18:56	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.088	1	09/10/24 10:00	09/11/24 18:56	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.097	1	09/10/24 10:00	09/11/24 18:56	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.082	1	09/10/24 10:00	09/11/24 18:56	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.047	1	09/10/24 10:00	09/11/24 18:56	207-08-9	
Chrysene	ND	ug/L	0.11	0.084	1	09/10/24 10:00	09/11/24 18:56	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.090	1	09/10/24 10:00	09/11/24 18:56	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.099	1	09/10/24 10:00	09/11/24 18:56	206-44-0	
Fluorene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 18:56	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.088	1	09/10/24 10:00	09/11/24 18:56	193-39-5	
Naphthalene	ND	ug/L	0.22	0.22	1	09/10/24 10:00	09/11/24 18:56	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.099	1	09/10/24 10:00	09/11/24 18:56	85-01-8	
Pyrene	ND	ug/L	0.11	0.097	1	09/10/24 10:00	09/11/24 18:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%.	43-95		1	09/10/24 10:00	09/11/24 18:56	321-60-8	
Terphenyl-d14 (S)	83	%.	47-118		1	09/10/24 10:00	09/11/24 18:56	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 20:05	83-32-9	
Acenaphthylene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:05	208-96-8	
Anthracene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 20:05	120-12-7	
Azobenzene	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 20:05	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 20:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	0.85	1	09/10/24 10:00	09/12/24 20:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	0.84	1	09/10/24 10:00	09/12/24 20:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.89	1	09/10/24 10:00	09/12/24 20:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	0.80	1	09/10/24 10:00	09/12/24 20:05	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-11-01-1040 **Lab ID: 30715797010** Collected: 09/06/24 11:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	16.9	4.8	1	09/10/24 10:00	09/12/24 20:05	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1.1	1	09/10/24 10:00	09/12/24 20:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 20:05	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.8	0.80	1	09/10/24 10:00	09/12/24 20:05	85-68-7	
Carbazole	ND	ug/L	1.1	0.79	1	09/10/24 10:00	09/12/24 20:05	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:05	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	0.56	1	09/10/24 10:00	09/12/24 20:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.60	1	09/10/24 10:00	09/12/24 20:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 20:05	108-60-1	
2-Chloronaphthalene	**1.1J**	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 20:05	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 20:05	7005-72-3	
Chrysene	ND	ug/L	1.1	0.90	1	09/10/24 10:00	09/12/24 20:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.85	1	09/10/24 10:00	09/12/24 20:05	53-70-3	
Dibenzofuran	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 20:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.91	1	09/10/24 10:00	09/12/24 20:05	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 20:05	120-83-2	
Diethylphthalate	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:05	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 20:05	105-67-9	
Dimethylphthalate	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:05	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.1	0.90	1	09/10/24 10:00	09/12/24 20:05	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.8	2.0	1	09/10/24 10:00	09/12/24 20:05	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.8	2.7	1	09/10/24 10:00	09/12/24 20:05	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.1	0.52	1	09/10/24 10:00	09/12/24 20:05	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 20:05	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.8	1.2	1	09/10/24 10:00	09/12/24 20:05	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.8	1.6	1	09/10/24 10:00	09/12/24 20:05	117-81-7	
Fluoranthene	ND	ug/L	1.1	0.80	1	09/10/24 10:00	09/12/24 20:05	206-44-0	
Fluorene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 20:05	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 20:05	87-68-3	
Hexachlorobenzene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 20:05	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:05	77-47-4	CH
Hexachloroethane	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:05	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.78	1	09/10/24 10:00	09/12/24 20:05	193-39-5	
Isophorone	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 20:05	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:05	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:05	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.55	1	09/10/24 10:00	09/12/24 20:05	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.2	1.0	1	09/10/24 10:00	09/12/24 20:05		
Naphthalene	ND	ug/L	2.8	0.75	1	09/10/24 10:00	09/12/24 20:05	91-20-3	
2-Nitroaniline	ND	ug/L	2.8	1.4	1	09/10/24 10:00	09/12/24 20:05	88-74-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-11-01-1040 **Lab ID: 30715797010** Collected: 09/06/24 11:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.8	1.5	1	09/10/24 10:00	09/12/24 20:05	99-09-2	
4-Nitroaniline	ND	ug/L	2.8	1.6	1	09/10/24 10:00	09/12/24 20:05	100-01-6	
Nitrobenzene	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:05	98-95-3	
2-Nitrophenol	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 20:05	88-75-5	
4-Nitrophenol	ND	ug/L	1.1	0.40	1	09/10/24 10:00	09/12/24 20:05	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.1	0.38	1	09/10/24 10:00	09/12/24 20:05	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:05	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 20:05	86-30-6	
Pentachlorophenol	ND	ug/L	2.8	1.7	1	09/10/24 10:00	09/12/24 20:05	87-86-5	
Phenanthrene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 20:05	85-01-8	
Phenol	ND	ug/L	1.1	0.28	1	09/10/24 10:00	09/12/24 20:05	108-95-2	
Pyrene	ND	ug/L	1.1	0.85	1	09/10/24 10:00	09/12/24 20:05	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:05	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.8	1.8	1	09/10/24 10:00	09/12/24 20:05	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 20:05	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	65	%.	43-123		1	09/10/24 10:00	09/12/24 20:05	4165-60-0	
2-Fluorobiphenyl (S)	64	%.	36-126		1	09/10/24 10:00	09/12/24 20:05	321-60-8	
Terphenyl-d14 (S)	84	%.	56-129		1	09/10/24 10:00	09/12/24 20:05	1718-51-0	
Phenol-d6 (S)	30	%.	11-56		1	09/10/24 10:00	09/12/24 20:05	13127-88-3	
2-Fluorophenol (S)	41	%.	25-80		1	09/10/24 10:00	09/12/24 20:05	367-12-4	
2,4,6-Tribromophenol (S)	73	%.	44-136		1	09/10/24 10:00	09/12/24 20:05	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 20:46	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 20:46	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 20:46	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 20:46	75-27-4	
Bromoform	**1.6J**	ug/L	4.0	1.5	1		09/13/24 20:46	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 20:46	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 20:46		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 20:46	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 20:46	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 20:46	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 20:46	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 20:46	75-00-3	
Chloroform	**1.3**	ug/L	1.0	0.93	1		09/13/24 20:46	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 20:46	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 20:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 20:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 20:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 20:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 20:46	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 20:46	107-06-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-11-01-1040 **Lab ID: 30715797010** Collected: 09/06/24 11:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 20:46	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 20:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 20:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 20:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 20:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 20:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 20:46	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 20:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 20:46	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 20:46	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 20:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 20:46	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 20:46	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 20:46	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 20:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 20:46	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 20:46	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 20:46	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 20:46	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 20:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 20:46	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 20:46	79-01-6	
1,2,4-Trimethylbenzene	**2.2**	ug/L	1.0	0.63	1		09/13/24 20:46	95-63-6	
1,3,5-Trimethylbenzene	**0.51J**	ug/L	1.0	0.45	1		09/13/24 20:46	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 20:46	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 20:46	1330-20-7	
m&p-Xylene	**0.95J**	ug/L	2.0	0.94	1		09/13/24 20:46	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 20:46	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%.	70-130		1		09/13/24 20:46	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%.	70-130		1		09/13/24 20:46	17060-07-0	
Toluene-d8 (S)	102	%.	70-130		1		09/13/24 20:46	2037-26-5	
Dibromofluoromethane (S)	101	%.	70-130		1		09/13/24 20:46	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-10-01-1041 **Lab ID: 30715797011** Collected: 09/06/24 12:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:47	7440-38-2	
Barium, Dissolved	**62.9**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:47	7440-39-3	
Cadmium, Dissolved	ND	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:47	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:47	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:47	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:47	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:47	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 12:19	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 19:12	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.095	1	09/10/24 10:00	09/11/24 19:12	208-96-8	
Anthracene	ND	ug/L	0.11	0.094	1	09/10/24 10:00	09/11/24 19:12	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.087	1	09/10/24 10:00	09/11/24 19:12	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.084	1	09/10/24 10:00	09/11/24 19:12	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.093	1	09/10/24 10:00	09/11/24 19:12	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.078	1	09/10/24 10:00	09/11/24 19:12	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.045	1	09/10/24 10:00	09/11/24 19:12	207-08-9	
Chrysene	ND	ug/L	0.11	0.080	1	09/10/24 10:00	09/11/24 19:12	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.086	1	09/10/24 10:00	09/11/24 19:12	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.095	1	09/10/24 10:00	09/11/24 19:12	206-44-0	
Fluorene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 19:12	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.084	1	09/10/24 10:00	09/11/24 19:12	193-39-5	
Naphthalene	ND	ug/L	0.22	0.21	1	09/10/24 10:00	09/11/24 19:12	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.095	1	09/10/24 10:00	09/11/24 19:12	85-01-8	
Pyrene	ND	ug/L	0.11	0.092	1	09/10/24 10:00	09/11/24 19:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	78	%.	43-95		1	09/10/24 10:00	09/11/24 19:12	321-60-8	
Terphenyl-d14 (S)	94	%.	47-118		1	09/10/24 10:00	09/11/24 19:12	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:24	83-32-9	
Acenaphthylene	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 20:24	208-96-8	
Anthracene	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 20:24	120-12-7	
Azobenzene	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 20:24	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.1	0.83	1	09/10/24 10:00	09/12/24 20:24	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 20:24	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	0.80	1	09/10/24 10:00	09/12/24 20:24	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.85	1	09/10/24 10:00	09/12/24 20:24	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 20:24	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-10-01-1041 **Lab ID: 30715797011** Collected: 09/06/24 12:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	16.1	4.6	1	09/10/24 10:00	09/12/24 20:24	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1.0	1	09/10/24 10:00	09/12/24 20:24	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 20:24	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.7	0.77	1	09/10/24 10:00	09/12/24 20:24	85-68-7	
Carbazole	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 20:24	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 20:24	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	0.54	1	09/10/24 10:00	09/12/24 20:24	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 20:24	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.57	1	09/10/24 10:00	09/12/24 20:24	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 20:24	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:24	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:24	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:24	7005-72-3	
Chrysene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 20:24	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 20:24	53-70-3	
Dibenzofuran	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:24	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 20:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 20:24	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 20:24	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:24	120-83-2	
Diethylphthalate	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 20:24	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 20:24	105-67-9	
Dimethylphthalate	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 20:24	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 20:24	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.7	1.9	1	09/10/24 10:00	09/12/24 20:24	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.7	2.6	1	09/10/24 10:00	09/12/24 20:24	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.1	0.50	1	09/10/24 10:00	09/12/24 20:24	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.1	0.59	1	09/10/24 10:00	09/12/24 20:24	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.7	1.2	1	09/10/24 10:00	09/12/24 20:24	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.7	1.6	1	09/10/24 10:00	09/12/24 20:24	117-81-7	
Fluoranthene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 20:24	206-44-0	
Fluorene	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:24	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:24	87-68-3	
Hexachlorobenzene	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 20:24	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 20:24	77-47-4	CH
Hexachloroethane	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 20:24	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.75	1	09/10/24 10:00	09/12/24 20:24	193-39-5	
Isophorone	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:24	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 20:24	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:24	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.53	1	09/10/24 10:00	09/12/24 20:24	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.2	0.95	1	09/10/24 10:00	09/12/24 20:24		
Naphthalene	ND	ug/L	2.7	0.72	1	09/10/24 10:00	09/12/24 20:24	91-20-3	
2-Nitroaniline	ND	ug/L	2.7	1.3	1	09/10/24 10:00	09/12/24 20:24	88-74-4	

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225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-10-01-1041 **Lab ID: 30715797011** Collected: 09/06/24 12:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 20:24	99-09-2	
4-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 20:24	100-01-6	
Nitrobenzene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:24	98-95-3	
2-Nitrophenol	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 20:24	88-75-5	
4-Nitrophenol	ND	ug/L	1.1	0.38	1	09/10/24 10:00	09/12/24 20:24	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.1	0.37	1	09/10/24 10:00	09/12/24 20:24	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 20:24	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 20:24	86-30-6	
Pentachlorophenol	ND	ug/L	2.7	1.6	1	09/10/24 10:00	09/12/24 20:24	87-86-5	
Phenanthrene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:24	85-01-8	
Phenol	ND	ug/L	1.1	0.27	1	09/10/24 10:00	09/12/24 20:24	108-95-2	
Pyrene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 20:24	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:24	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.7	1.8	1	09/10/24 10:00	09/12/24 20:24	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:24	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	82	%.	43-123		1	09/10/24 10:00	09/12/24 20:24	4165-60-0	
2-Fluorobiphenyl (S)	79	%.	36-126		1	09/10/24 10:00	09/12/24 20:24	321-60-8	
Terphenyl-d14 (S)	100	%.	56-129		1	09/10/24 10:00	09/12/24 20:24	1718-51-0	
Phenol-d6 (S)	38	%.	11-56		1	09/10/24 10:00	09/12/24 20:24	13127-88-3	
2-Fluorophenol (S)	51	%.	25-80		1	09/10/24 10:00	09/12/24 20:24	367-12-4	
2,4,6-Tribromophenol (S)	91	%.	44-136		1	09/10/24 10:00	09/12/24 20:24	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 19:55	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 19:55	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 19:55	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 19:55	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 19:55	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 19:55	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 19:55		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 19:55	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 19:55	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 19:55	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 19:55	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 19:55	75-00-3	
Chloroform	**1.3**	ug/L	1.0	0.93	1		09/13/24 19:55	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 19:55	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 19:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 19:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 19:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 19:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 19:55	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 19:55	107-06-2	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-10-01-1041 **Lab ID: 30715797011** Collected: 09/06/24 12:50 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 19:55	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 19:55	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 19:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 19:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 19:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 19:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 19:55	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 19:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 19:55	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 19:55	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 19:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 19:55	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 19:55	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 19:55	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 19:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 19:55	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 19:55	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 19:55	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 19:55	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 19:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 19:55	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 19:55	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		09/13/24 19:55	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 19:55	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 19:55	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 19:55	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 19:55	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 19:55	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	70-130		1		09/13/24 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%.	70-130		1		09/13/24 19:55	17060-07-0	
Toluene-d8 (S)	96	%.	70-130		1		09/13/24 19:55	2037-26-5	
Dibromofluoromethane (S)	102	%.	70-130		1		09/13/24 19:55	1868-53-7	

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(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-9-01-1042 **Lab ID: 30715797012** Collected: 09/06/24 14:25 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
BVR 6010D ICP, Dissolved 3010A	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Beaver								
Arsenic, Dissolved	ND	ug/L	20.0	6.0	1	09/10/24 05:40	09/11/24 14:49	7440-38-2	
Barium, Dissolved	**75.5**	ug/L	5.0	0.89	1	09/10/24 05:40	09/11/24 14:49	7440-39-3	
Cadmium, Dissolved	**0.45J**	ug/L	2.0	0.41	1	09/10/24 05:40	09/11/24 14:49	7440-43-9	
Chromium, Dissolved	ND	ug/L	5.0	0.43	1	09/10/24 05:40	09/11/24 14:49	7440-47-3	
Lead, Dissolved	ND	ug/L	10.0	2.8	1	09/10/24 05:40	09/11/24 14:49	7439-92-1	
Selenium, Dissolved	ND	ug/L	20.0	6.9	1	09/10/24 05:40	09/11/24 14:49	7782-49-2	
Silver, Dissolved	ND	ug/L	5.0	2.2	1	09/10/24 05:40	09/11/24 14:49	7440-22-4	
BVR 7470 Mercury, Dissolved	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Beaver								
Mercury, Dissolved	ND	ug/L	0.20	0.20	1	09/09/24 03:59	09/09/24 12:22	7439-97-6	
8270E PAH SIM Reduced Volume	Analytical Method: EPA 8270E By SIM Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	0.11	0.10	1	09/10/24 10:00	09/11/24 19:29	83-32-9	
Acenaphthylene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 19:29	208-96-8	
Anthracene	ND	ug/L	0.11	0.095	1	09/10/24 10:00	09/11/24 19:29	120-12-7	
Benzo(a)anthracene	ND	ug/L	0.11	0.088	1	09/10/24 10:00	09/11/24 19:29	56-55-3	L1
Benzo(a)pyrene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 19:29	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	0.11	0.094	1	09/10/24 10:00	09/11/24 19:29	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	0.11	0.079	1	09/10/24 10:00	09/11/24 19:29	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	0.11	0.045	1	09/10/24 10:00	09/11/24 19:29	207-08-9	
Chrysene	ND	ug/L	0.11	0.081	1	09/10/24 10:00	09/11/24 19:29	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	0.11	0.087	1	09/10/24 10:00	09/11/24 19:29	53-70-3	
Fluoranthene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 19:29	206-44-0	
Fluorene	ND	ug/L	0.11	0.098	1	09/10/24 10:00	09/11/24 19:29	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	ug/L	0.11	0.085	1	09/10/24 10:00	09/11/24 19:29	193-39-5	
Naphthalene	ND	ug/L	0.22	0.21	1	09/10/24 10:00	09/11/24 19:29	91-20-3	
Phenanthrene	ND	ug/L	0.11	0.096	1	09/10/24 10:00	09/11/24 19:29	85-01-8	
Pyrene	ND	ug/L	0.11	0.093	1	09/10/24 10:00	09/11/24 19:29	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%.	43-95		1	09/10/24 10:00	09/11/24 19:29	321-60-8	
Terphenyl-d14 (S)	88	%.	47-118		1	09/10/24 10:00	09/11/24 19:29	1718-51-0	
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Acenaphthene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:44	83-32-9	
Acenaphthylene	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 20:44	208-96-8	
Anthracene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:44	120-12-7	
Azobenzene	ND	ug/L	1.1	0.71	1	09/10/24 10:00	09/12/24 20:44	103-33-3	
Benzo(a)anthracene	ND	ug/L	1.1	0.84	1	09/10/24 10:00	09/12/24 20:44	56-55-3	
Benzo(a)pyrene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 20:44	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	1.1	0.81	1	09/10/24 10:00	09/12/24 20:44	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	1.1	0.86	1	09/10/24 10:00	09/12/24 20:44	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	1.1	0.78	1	09/10/24 10:00	09/12/24 20:44	207-08-9	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-9-01-1042 **Lab ID: 30715797012** Collected: 09/06/24 14:25 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
Benzoic acid	ND	ug/L	16.3	4.7	1	09/10/24 10:00	09/12/24 20:44	65-85-0	
Benzyl alcohol	ND	ug/L	1.1	1.1	1	09/10/24 10:00	09/12/24 20:44	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 20:44	101-55-3	
Butylbenzylphthalate	ND	ug/L	2.7	0.78	1	09/10/24 10:00	09/12/24 20:44	85-68-7	
Carbazole	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 20:44	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 20:44	59-50-7	
4-Chloroaniline	ND	ug/L	1.1	0.54	1	09/10/24 10:00	09/12/24 20:44	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:44	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	1.1	0.58	1	09/10/24 10:00	09/12/24 20:44	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	1.1	0.68	1	09/10/24 10:00	09/12/24 20:44	108-60-1	
2-Chloronaphthalene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 20:44	91-58-7	
2-Chlorophenol	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:44	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:44	7005-72-3	
Chrysene	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 20:44	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 20:44	53-70-3	
Dibenzofuran	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:44	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 20:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.1	0.61	1	09/10/24 10:00	09/12/24 20:44	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	1.1	0.88	1	09/10/24 10:00	09/12/24 20:44	91-94-1	
2,4-Dichlorophenol	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:44	120-83-2	
Diethylphthalate	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 20:44	84-66-2	
2,4-Dimethylphenol	ND	ug/L	1.1	0.70	1	09/10/24 10:00	09/12/24 20:44	105-67-9	
Dimethylphthalate	ND	ug/L	1.1	0.69	1	09/10/24 10:00	09/12/24 20:44	131-11-3	
Di-n-butylphthalate	ND	ug/L	1.1	0.87	1	09/10/24 10:00	09/12/24 20:44	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	2.7	1.9	1	09/10/24 10:00	09/12/24 20:44	534-52-1	
2,4-Dinitrophenol	ND	ug/L	2.7	2.6	1	09/10/24 10:00	09/12/24 20:44	51-28-5	CH
2,4-Dinitrotoluene	ND	ug/L	1.1	0.51	1	09/10/24 10:00	09/12/24 20:44	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	1.1	0.60	1	09/10/24 10:00	09/12/24 20:44	606-20-2	
Di-n-octylphthalate	ND	ug/L	2.7	1.2	1	09/10/24 10:00	09/12/24 20:44	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	2.7	1.6	1	09/10/24 10:00	09/12/24 20:44	117-81-7	
Fluoranthene	ND	ug/L	1.1	0.77	1	09/10/24 10:00	09/12/24 20:44	206-44-0	
Fluorene	ND	ug/L	1.1	0.67	1	09/10/24 10:00	09/12/24 20:44	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	1.1	0.65	1	09/10/24 10:00	09/12/24 20:44	87-68-3	
Hexachlorobenzene	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 20:44	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 20:44	77-47-4	CH
Hexachloroethane	ND	ug/L	1.1	0.62	1	09/10/24 10:00	09/12/24 20:44	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	1.1	0.76	1	09/10/24 10:00	09/12/24 20:44	193-39-5	
Isophorone	ND	ug/L	1.1	0.66	1	09/10/24 10:00	09/12/24 20:44	78-59-1	
1-Methylnaphthalene	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:44	90-12-0	
2-Methylnaphthalene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:44	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	1.1	0.53	1	09/10/24 10:00	09/12/24 20:44	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	2.2	0.96	1	09/10/24 10:00	09/12/24 20:44		
Naphthalene	ND	ug/L	2.7	0.72	1	09/10/24 10:00	09/12/24 20:44	91-20-3	
2-Nitroaniline	ND	ug/L	2.7	1.4	1	09/10/24 10:00	09/12/24 20:44	88-74-4	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-9-01-1042 **Lab ID: 30715797012** Collected: 09/06/24 14:25 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E Organics Reduced Volume	Analytical Method: EPA 8270E Preparation Method: EPA 3510C Pace Analytical Services - Greensburg								
3-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 20:44	99-09-2	
4-Nitroaniline	ND	ug/L	2.7	1.5	1	09/10/24 10:00	09/12/24 20:44	100-01-6	
Nitrobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:44	98-95-3	
2-Nitrophenol	ND	ug/L	1.1	0.73	1	09/10/24 10:00	09/12/24 20:44	88-75-5	
4-Nitrophenol	ND	ug/L	1.1	0.38	1	09/10/24 10:00	09/12/24 20:44	100-02-7	
N-Nitrosodimethylamine	ND	ug/L	1.1	0.37	1	09/10/24 10:00	09/12/24 20:44	62-75-9	
N-Nitroso-di-n-propylamine	ND	ug/L	1.1	0.63	1	09/10/24 10:00	09/12/24 20:44	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	1.1	0.74	1	09/10/24 10:00	09/12/24 20:44	86-30-6	
Pentachlorophenol	ND	ug/L	2.7	1.7	1	09/10/24 10:00	09/12/24 20:44	87-86-5	
Phenanthrene	ND	ug/L	1.1	0.72	1	09/10/24 10:00	09/12/24 20:44	85-01-8	
Phenol	ND	ug/L	1.1	0.27	1	09/10/24 10:00	09/12/24 20:44	108-95-2	
Pyrene	ND	ug/L	1.1	0.82	1	09/10/24 10:00	09/12/24 20:44	129-00-0	
1,2,4-Trichlorobenzene	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:44	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	2.7	1.8	1	09/10/24 10:00	09/12/24 20:44	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	1.1	0.64	1	09/10/24 10:00	09/12/24 20:44	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	63	%.	43-123		1	09/10/24 10:00	09/12/24 20:44	4165-60-0	
2-Fluorobiphenyl (S)	59	%.	36-126		1	09/10/24 10:00	09/12/24 20:44	321-60-8	
Terphenyl-d14 (S)	89	%.	56-129		1	09/10/24 10:00	09/12/24 20:44	1718-51-0	
Phenol-d6 (S)	30	%.	11-56		1	09/10/24 10:00	09/12/24 20:44	13127-88-3	
2-Fluorophenol (S)	43	%.	25-80		1	09/10/24 10:00	09/12/24 20:44	367-12-4	
2,4,6-Tribromophenol (S)	76	%.	44-136		1	09/10/24 10:00	09/12/24 20:44	118-79-6	
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 20:20	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 20:20	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 20:20	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 20:20	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 20:20	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 20:20	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 20:20		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 20:20	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 20:20	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 20:20	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 20:20	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 20:20	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		09/13/24 20:20	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 20:20	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 20:20	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 20:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 20:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 20:20	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 20:20	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 20:20	107-06-2	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-MW-9-01-1042 **Lab ID: 30715797012** Collected: 09/06/24 14:25 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 20:20	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 20:20	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 20:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 20:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 20:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 20:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 20:20	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 20:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 20:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 20:20	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 20:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 20:20	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 20:20	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 20:20	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 20:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 20:20	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 20:20	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 20:20	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 20:20	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 20:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 20:20	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 20:20	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		09/13/24 20:20	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 20:20	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 20:20	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 20:20	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 20:20	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 20:20	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	70-130		1		09/13/24 20:20	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130		1		09/13/24 20:20	17060-07-0	
Toluene-d8 (S)	99	%.	70-130		1		09/13/24 20:20	2037-26-5	
Dibromofluoromethane (S)	104	%.	70-130		1		09/13/24 20:20	1868-53-7	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-TB-01-1043 **Lab ID: 30715797013** Collected: 09/06/24 14:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Acetone	ND	ug/L	50.0	11.4	1		09/13/24 13:58	67-64-1	3c
Benzene	ND	ug/L	1.0	0.34	1		09/13/24 13:58	71-43-2	
Bromochloromethane	ND	ug/L	1.0	0.48	1		09/13/24 13:58	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.35	1		09/13/24 13:58	75-27-4	
Bromoform	ND	ug/L	4.0	1.5	1		09/13/24 13:58	75-25-2	
Bromomethane	ND	ug/L	10.0	2.5	1		09/13/24 13:58	74-83-9	CL
TOTAL BTEX	ND	ug/L	6.0	2.4	1		09/13/24 13:58		
2-Butanone (MEK)	ND	ug/L	10.0	1.5	1		09/13/24 13:58	78-93-3	
Carbon disulfide	ND	ug/L	1.0	0.32	1		09/13/24 13:58	75-15-0	IL
Carbon tetrachloride	ND	ug/L	1.0	0.44	1		09/13/24 13:58	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.26	1		09/13/24 13:58	108-90-7	
Chloroethane	ND	ug/L	4.0	0.64	1		09/13/24 13:58	75-00-3	
Chloroform	ND	ug/L	1.0	0.93	1		09/13/24 13:58	67-66-3	
Chloromethane	ND	ug/L	10.0	2.8	1		09/13/24 13:58	74-87-3	CL
Dibromochloromethane	ND	ug/L	1.0	0.43	1		09/13/24 13:58	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.38	1		09/13/24 13:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.45	1		09/13/24 13:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.48	1		09/13/24 13:58	106-46-7	
1,1-Dichloroethane	ND	ug/L	1.0	0.50	1		09/13/24 13:58	75-34-3	IL
1,2-Dichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 13:58	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	2.0	0.66	1		09/13/24 13:58	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.49	1		09/13/24 13:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.38	1		09/13/24 13:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.59	1		09/13/24 13:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.58	1		09/13/24 13:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.29	1		09/13/24 13:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.32	1		09/13/24 13:58	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.40	1		09/13/24 13:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	0.58	1		09/13/24 13:58	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.47	1		09/13/24 13:58	98-82-8	
Methylene Chloride	ND	ug/L	1.0	0.92	1		09/13/24 13:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		09/13/24 13:58	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.25	1		09/13/24 13:58	1634-04-4	
Naphthalene	ND	ug/L	4.0	2.1	1		09/13/24 13:58	91-20-3	
Styrene	ND	ug/L	1.0	0.33	1		09/13/24 13:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.47	1		09/13/24 13:58	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.39	1		09/13/24 13:58	127-18-4	
Toluene	ND	ug/L	1.0	0.32	1		09/13/24 13:58	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	4.0	0.73	1		09/13/24 13:58	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.38	1		09/13/24 13:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.33	1		09/13/24 13:58	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.64	1		09/13/24 13:58	79-01-6	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.63	1		09/13/24 13:58	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.45	1		09/13/24 13:58	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.29	1		09/13/24 13:58	75-01-4	

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ANALYTICAL RESULTS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Sample: GVMC-TB-01-1043 **Lab ID: 30715797013** Collected: 09/06/24 14:45 Received: 09/06/24 16:23 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV	Analytical Method: EPA 8260D Pace Analytical Services - Greensburg								
Xylene (Total)	ND	ug/L	3.0	1.4	1		09/13/24 13:58	1330-20-7	
m&p-Xylene	ND	ug/L	2.0	0.94	1		09/13/24 13:58	179601-23-1	
o-Xylene	ND	ug/L	1.0	0.41	1		09/13/24 13:58	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%.	70-130		1		09/13/24 13:58	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130		1		09/13/24 13:58	17060-07-0	
Toluene-d8 (S)	95	%.	70-130		1		09/13/24 13:58	2037-26-5	
Dibromofluoromethane (S)	107	%.	70-130		1		09/13/24 13:58	1868-53-7	

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QUALIFIERS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 696466

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
2c	Sample was processed by reduced volume extraction method. Entire bottle not used.
3c	The analyte did not meet the method recommended minimum RF.
CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
CL	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
H2	Extraction or preparation conducted outside EPA method holding time.
IL	This analyte exceeded secondary source verification criteria low for the initial calibration. The reported results should be considered an estimated value.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

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QUALIFIERS

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

ANALYTE QUALIFIERS

SR	Surrogate recovery was below laboratory control limits. Results may be biased low.
ST	Surrogate recovery was above laboratory control limits. Results may be biased high.

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Beaver, WV 25813
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30715797001	**GVMC-MW-6-01-1031**	EPA 3010A	694790	EPA 6010D	695262
30715797002	**GVMC-EB-01-1032**	EPA 3010A	694790	EPA 6010D	695262
30715797003	**GVMC-MW-5-01-1033**	EPA 3010A	694790	EPA 6010D	695262
30715797004	**GVMC-MW-4-01-1034**	EPA 3010A	694790	EPA 6010D	695262
30715797005	**GVMC-MW-3-01-1035**	EPA 3010A	694790	EPA 6010D	695262
30715797006	**GVMC-MW-3-02-1036**	EPA 3010A	694790	EPA 6010D	695262
30715797007	**GVMC-MW-7-01-1037**	EPA 3010A	694790	EPA 6010D	695262
30715797009	**GVMC-MW-8-01-1039**	EPA 3010A	694790	EPA 6010D	695262
30715797010	**GVMC-MW-11-01-1040**	EPA 3010A	694790	EPA 6010D	695262
30715797011	**GVMC-MW-10-01-1041**	EPA 3010A	694790	EPA 6010D	695262
30715797012	**GVMC-MW-9-01-1042**	EPA 3010A	694790	EPA 6010D	695262
30715797001	**GVMC-MW-6-01-1031**	EPA 7470A	694505	EPA 7470A	694541
30715797002	**GVMC-EB-01-1032**	EPA 7470A	694505	EPA 7470A	694541
30715797003	**GVMC-MW-5-01-1033**	EPA 7470A	694505	EPA 7470A	694541
30715797004	**GVMC-MW-4-01-1034**	EPA 7470A	694505	EPA 7470A	694541
30715797005	**GVMC-MW-3-01-1035**	EPA 7470A	694505	EPA 7470A	694541
30715797006	**GVMC-MW-3-02-1036**	EPA 7470A	694505	EPA 7470A	694541
30715797007	**GVMC-MW-7-01-1037**	EPA 7470A	694505	EPA 7470A	694541
30715797009	**GVMC-MW-8-01-1039**	EPA 7470A	694505	EPA 7470A	694541
30715797010	**GVMC-MW-11-01-1040**	EPA 7470A	694505	EPA 7470A	694541
30715797011	**GVMC-MW-10-01-1041**	EPA 7470A	694505	EPA 7470A	694541
30715797012	**GVMC-MW-9-01-1042**	EPA 7470A	694505	EPA 7470A	694541
30715797001	**GVMC-MW-6-01-1031**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797002	**GVMC-EB-01-1032**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797003	**GVMC-MW-5-01-1033**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797004	**GVMC-MW-4-01-1034**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797005	**GVMC-MW-3-01-1035**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797006	**GVMC-MW-3-02-1036**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797007	**GVMC-MW-7-01-1037**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797009	**GVMC-MW-8-01-1039**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797010	**GVMC-MW-11-01-1040**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797011	**GVMC-MW-10-01-1041**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797012	**GVMC-MW-9-01-1042**	EPA 3510C	694818	EPA 8270E By SIM	695066
30715797001	**GVMC-MW-6-01-1031**	EPA 3510C	694821	EPA 8270E	695065
30715797002	**GVMC-EB-01-1032**	EPA 3510C	694821	EPA 8270E	695065
30715797003	**GVMC-MW-5-01-1033**	EPA 3510C	694821	EPA 8270E	695065
30715797004	**GVMC-MW-4-01-1034**	EPA 3510C	694821	EPA 8270E	695065
30715797004	**GVMC-MW-4-01-1034**	EPA 3510C	696466	EPA 8270E	696739
30715797005	**GVMC-MW-3-01-1035**	EPA 3510C	694821	EPA 8270E	695065
30715797006	**GVMC-MW-3-02-1036**	EPA 3510C	694821	EPA 8270E	695065
30715797007	**GVMC-MW-7-01-1037**	EPA 3510C	694821	EPA 8270E	695065
30715797009	**GVMC-MW-8-01-1039**	EPA 3510C	694821	EPA 8270E	695065
30715797010	**GVMC-MW-11-01-1040**	EPA 3510C	694821	EPA 8270E	695065
30715797011	**GVMC-MW-10-01-1041**	EPA 3510C	694821	EPA 8270E	695065
30715797012	**GVMC-MW-9-01-1042**	EPA 3510C	694821	EPA 8270E	695065
30715797001	**GVMC-MW-6-01-1031**	EPA 8260D	695906		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GVMC (CAMC GREENBRIER VALLEY)
Pace Project No.: 30715797

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30715797002	**GVMC-EB-01-1032**	EPA 8260D	695906		
30715797003	**GVMC-MW-5-01-1033**	EPA 8260D	695906		
30715797004	**GVMC-MW-4-01-1034**	EPA 8260D	695906		
30715797005	**GVMC-MW-3-01-1035**	EPA 8260D	695906		
30715797006	**GVMC-MW-3-02-1036**	EPA 8260D	695906		
30715797007	**GVMC-MW-7-01-1037**	EPA 8260D	695906		
30715797008	**GVMC-FB-01-1038**	EPA 8260D	695906		
30715797009	**GVMC-MW-8-01-1039**	EPA 8260D	695906		
30715797010	**GVMC-MW-11-01-1040**	EPA 8260D	695906		
30715797011	**GVMC-MW-10-01-1041**	EPA 8260D	695906		
30715797012	**GVMC-MW-9-01-1042**	EPA 8260D	695906		
30715797013	**GVMC-TB-01-1043**	EPA 8260D	695906		

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LAB USE ONLY- Affix Workorder/Log MTJL L

WO# : 30715797

30715797

ALL SHADED ARE

Company: Kemron Environmental Services	Billing Information:
Address: 108 Craddock Way, Ste 5, Poca, WV	
Report To: Abdo Chaber	Email To: achaber@kemron.com
Copy To: Terry Wilfong	Site Collection Info/Address: 1320 Maplewood Ave
Customer Project Name/Number: GVMC (CAMC Greenbriar Valley)	State: WV / County/City: Lewisburg / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: 304 755 0999 Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Crystal Cain	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [X] Yes [ ] No / Analysis: RCRA metals ONLY

Container Preservative Type **: 3 U U 1 U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Dissolved RCRA metals 6010 7471	Dioxins & Furans						Lab Sample # / Comments
GVMC-MW-6-01-1031	GW	G	9/4/24	1750				6	✓	✓	✓	✓							
GVMC-EB-01-1032	GW	G	9/5/24	0745				6	✓	✓	✓	✓							
GVMC-MW-5-01-1033	GW	G	9/5/24	0910				6	✓	✓	✓	✓							
GVMC-MW-4-01-1034	GW	G	9/5/24	1110				6	✓	✓	✓	✓							
GVMC-MW-3-01-1035	GW	G	9/5/24	1450				6	✓	✓	✓	✓							
GVMC-MW-2-01-1036	GW	G	9/5/24	1450				6	✓	✓	✓	✓							
GVMC-MW-7-01-1037	GW	G	9/5/24	1655				6	✓	✓	✓	✓							
GVMC-FB-01-1038	GW	G	9/6/24	0720				3	✓										
GVMC-MW-8-01-1039	GW	G	9/6/24	0830				18	✓	✓	✓	✓							MS/MSD
GVMC-MW-11-01-1040	GW	G	9/6/24	1145				6	✓	✓	✓	✓							

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips: _____			
Sample pH Acceptable	Y	N	NA
pH Strips: _____			
Sulfide Present	Y	N	NA
Lead Acetate Strips: _____			

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2774502

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 0.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.2 oC
Comments:

Relinquished by/Company: (Signature) Crystal Cain Kemron	Date/Time: 9/6/24 1623	Received by/Company: (Signature)	Date/Time: 9-6-24 1623
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Sign	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Kemron Environmental Services	Billing Information:
Address: 108 Craddock Way Ste 5, Poca, WV	
Report To: Abdo Chaber	Email To: achaber@kemron.com
Copy To: Terry Wilfong	Site Collection Info/Address: 1320 Maplewood Ave
Customer Project Name/Number: GVMC (CAMC Greenbriar Valley)	State: WV / County/City: Lewisburg / Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: 304 755 0999 Email:	Site/Facility ID #: / Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Crystal Cain	Purchase Order #: / Quote #: / DW PWS ID #: / DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard / Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) / Field Filtered (if applicable): [X] Yes [ ] No / Analysis: RCRA Metals ONLY

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Container Preservative Type **: 3 U U 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Dissolved RCRA Metals 6010 7471
GVMC-MW-10-01-1041	GW	G	9/6/24	1250				6	✓	✓	✓	✓
GVMC-MW-9-01-1042	GW	G	9/6/24	1425				6	✓	✓	✓	✓
GVMC-TB-01-1043	GW	G	9/6/24	1445				2	✓			

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2774503

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 0.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.2 oC
Comments:

Relinquished by/Company: (Signature) Crystal Cain (Kemron)	Date/Time: 9/6/24 1623	Received by/Company: (Signature)	Date/Time: 9-6-24 1623
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

WO#: 30715797

PM: BAA Due Date: 09/23/24

CLIENT: BV-KEENPOCA

LIMS30 Lab Sample Condition Upon Receipt (West Virginia)

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ 3rd Party Courier ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box/Containers Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used 20 **Type of Ice:** Wet Blue None

Cooler Temperature **Observed Temp** 0.2 °C Correction Factor: 0 °C Final Temp: 0.2 °C

Thermal Preservation Requirement Met Yes ☑ No ☐

pH paper Lot#	Date and Initials of person examining contents:
204524	9-7-24

	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used:	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous sample field filtered:			✓	13.
-pH adjusted within 24 hours? (If yes, indicate acid lot #)			✓	
Filtered volume received for Dissolved tests:	✓			14.
All containers have been checked for chemical preservation:	✓			15.
exceptions: VOA, coliform, O&G, LLMercury, Non-aqueous matrix				
All containers meet method/chemical preservation requirements:	✓			Initial when completed JC Date: 9-7-24
				Tests not preserved:
Headspace in VOA Vials:	✓			16.
Trip Blank Present:	✓			17.
				Initial when completed: JC Date: 9-7-24

Comments: _____

***PM review** is documented electronically in LIMS, when the Project Manager closes the SRF Review schedule in LIMS. The status may be reviewed in the Status section of the Workorder Edit Screen.

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LAB USE ONLY- Affix Workorder/Log MTJL L

ALL SHADED ARE

WO# : 30715797

30715797

Company: Kemron Environmental Services	Billing Information:
Address: 108 Craddock Way, Ste 5, Poca, WV	
Report To: Abdo Chaber	Email To: achaber@kemron.com
Copy To: Terry Wilfong	Site Collection Info/Address: 1320 Maplewood Ave
Customer Project Name/Number: GVMC (CAMC Greenbriar Valley)	State: WV County/City: Lewisburg Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: 304-755-0999 Email:	Site/Facility ID #: Compliance Monitoring? [ ] Yes [ ] No
Collected By (print): Crystal Cain	Purchase Order #: Quote #: DW PWS ID #: DW Location Code:
Collected By (signature):	Turnaround Date Required: Standard Immediately Packed on Ice: [X] Yes [ ] No
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply) Field Filtered (if applicable): [X] Yes [ ] No Analysis: RCRA Metals ONLY

Container Preservative Type **: 3 U U 1 U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	VOCs 8260	SVOCs 8270	PAHs 8270 SIM	Dissolved RCRA metals 6010 7471	Dioxins & Furans	Lab Sample # / Comments
GVMC-MW-6-01-1031	GW	G	9/4/24	1750				6	✓	✓	✓	✓		
GVMC-EB-01-1032	GW	G	9/5/24	0745				6	✓	✓	✓	✓		
GVMC-MW-5-01-1033	GW	G	9/5/24	0910				6	✓	✓	✓	✓		
GVMC-MW-4-01-1034	GW	G	9/5/24	1110				6	✓	✓	✓	✓		
GVMC-MW-3-01-1035	GW	G	9/5/24	1450				6	✓	✓	✓	✓		
GVMC-MW-3-02-1036	GW	G	9/5/24	1450				6	✓	✓	✓	✓		
GVMC-MW-7-01-1037	GW	G	9/5/24	1655				6	✓	✓	✓	✓		
GVMC-FB-01-1038	GW	G	9/6/24	0720				3	✓					
GVMC-MW-8-01-1039	GW	G	9/6/24	0830				18	✓	✓	✓	✓		MS/MSD
GVMC-MW-11-01-1040	GW	G	9/6/24	1145				6	✓	✓	✓	✓		

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips: _____	
Sample pH Acceptable	Y N NA
pH Strips: _____	
Sulfide Present	Y N NA
Lead Acetate Strips: _____	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2774502

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 20
Cooler 1 Temp Upon Receipt: 0.2 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 0.2 oC
Comments:

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Crystal Cain-Kemron	9/6/24 1623		9-6-24 1623
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	9-9-24 1645	Nicely's Del. Service	9-9-24 1900
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Sign.	Date/Time:

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 1 of: 2

Page 64 of 68

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LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: Kenvon Environmental Services	Billing Information:
Address: 108 Craddock Way Ste 5, Poca, WV	
Report To: Abdo Chaber	Email To: achaber@kenvon.com
Copy To: Terry Wilfong	Site Collection Info/Address: 1320 Maplewood Ave
Customer Project Name/Number: GVMC (GAMC Greenbriar Valley)	State: WV County/City: Lewisburg Time Zone Collected: [ ] PT [ ] MT [ ] CT [X] ET
Phone: 304 755 0999 Email:	Site/Facility ID #:
Collected By (print): Crystal Cain	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: Standard
Sample Disposal: [ ] Dispose as appropriate [ ] Return [ ] Archive: [ ] Hold:	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Container Preservative Type **: 3 U U 1

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Compliance Monitoring? [ ] Yes [ ] No

DW PWS ID #: DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [X] Yes [ ] No

Analysis: RCRA Metals ONLY

Analyses: VOCs 8260; SVOCs 8270; PAHs 8270 SIM; Dissolved RCRA Metals 6010 7471

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N NA
Custody Signatures Present	Y N NA
Collector Signature Present	Y N NA
Bottles Intact	Y N NA
Correct Bottles	Y N NA
Sufficient Volume	Y N NA
Samples Received on Ice	Y N NA
VOA - Headspace Acceptable	Y N NA
USDA Regulated Soils	Y N NA
Samples in Holding Time	Y N NA
Residual Chlorine Present	Y N NA
Cl Strips:	
Sample pH Acceptable	Y N NA
pH Strips:	
Sulfide Present	Y N NA
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns
GVMC-MW-10-01-1041	GW	G	9/6/24	1250				6
GVMC-MW-9-01-1042	GW	G	9/6/24	1425				6
GVMC-TB-01-1043	GW	G	9/6/24	1445				2

Received by Pace Greensburg
Therm ID 17 Corr Factor +/- -.03
Receipt Temp 1.9
Corrected Temp 1.6
Correct Preservation Y N
Res. Chlorine - Y N Lot# 24D434

Customer Remarks / Special Conditions / Possible Hazards: Rad Samples Screened <0.05 mrem/hr Survey Meter 2314280

TYPE OF Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2774503

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:
Temp Blank Received: Y N NA
Therm ID#: 26
Cooler 1 Temp Upon Receipt: 0.2 oC
Cooler 1 Therm Corr. Factor: -0.3 oC
Cooler 1 Corrected Temp: -0.2 oC
Comments:

Relinquished by/Company: (Signature) Crystal Cain (Kenvon)	Date/Time: 9/6/24 1623	Received by/Company: (Signature)	Date/Time: 9-6-24 1623
Relinquished by/Company: (Signature)	Date/Time: 9-9-24 1645	Received by/Company: (Signature) Nicely's Del. Service	Date/Time: 9-9-24 1900
Relinquished by/Company: (Signature) Nicely's Del. Service	Date/Time: 9/9/24 23:00	Received by/Company: (Signature) Pace	Date/Time: 9/9/24 23:00

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: Y N NA
HCL MeOH TSP Other

Non Conformance(s): YES / NO

Page: 2 of: 2

WO#: 30715797

PM: BAA Due Date: 09/23/24

CLIENT: BV-KEENPOCA

LIMS30 Lab Sample Condition Upon Receipt (West Virginia)

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ 3rd Party Courier ☐ Pace ☐ Other _____

Tracking #: _____

Custody Seal on Cooler/Box/Containers Present: ☐ yes ☑ no Seals intact: ☐ yes ☑ no

Thermometer Used 26 **Type of Ice:** Wet Blue None

Cooler Temperature **Observed Temp** 0.2 °C Correction Factor: 0 °C Final Temp: 0.2 °C

Thermal Preservation Requirement Met Yes ☑ No ☐

pH paper Lot#	Date and Initials of person examining contents:
204826	9-7-24

	Yes	No	N/A	
Chain of Custody Present:	✓			1.
Chain of Custody Filled Out:	✓			2.
Chain of Custody Relinquished:	✓			3.
Sampler Name & Signature on COC:	✓			4.
Sample Labels match COC: -Includes date/time/ID Matrix: WT	✓			5.
Samples Arrived within Hold Time:	✓		✓	6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used: -Pace Containers Used:	✓ ✓			10.
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous sample field filtered: -pH adjusted within 24 hours? (If yes, indicate acid lot #)			✓ ✓	13.
Filtered volume received for Dissolved tests:	✓			14.
All containers have been checked for chemical preservation: exceptions: VOA, coliform, O&G, LLMercury, Non-aqueous matrix	✓			15.
All containers meet method/chemical preservation requirements:	✓			Initial when completed JC Date: 9-7-24
				Tests not preserved:
Headspace in VOA Vials:	✓		✓	16.
Trip Blank Present:	✓			17.
				Initial when completed: JC Date: 9-7-24

Comments: _____

***PM review** is documented electronically in LIMS, when the Project Manager closes the SRF Review schedule in LIMS. The status may be reviewed in the Status section of the Workorder Edit Screen.

ANALYTICAL REPORT

October 15, 2024

KEMRON Environmental - WV

Sample Delivery Group:	L1787977
Samples Received:	10/11/2024
Project Number:	WV1966
Description:	CAMC Greenbrier Valley Medical Center

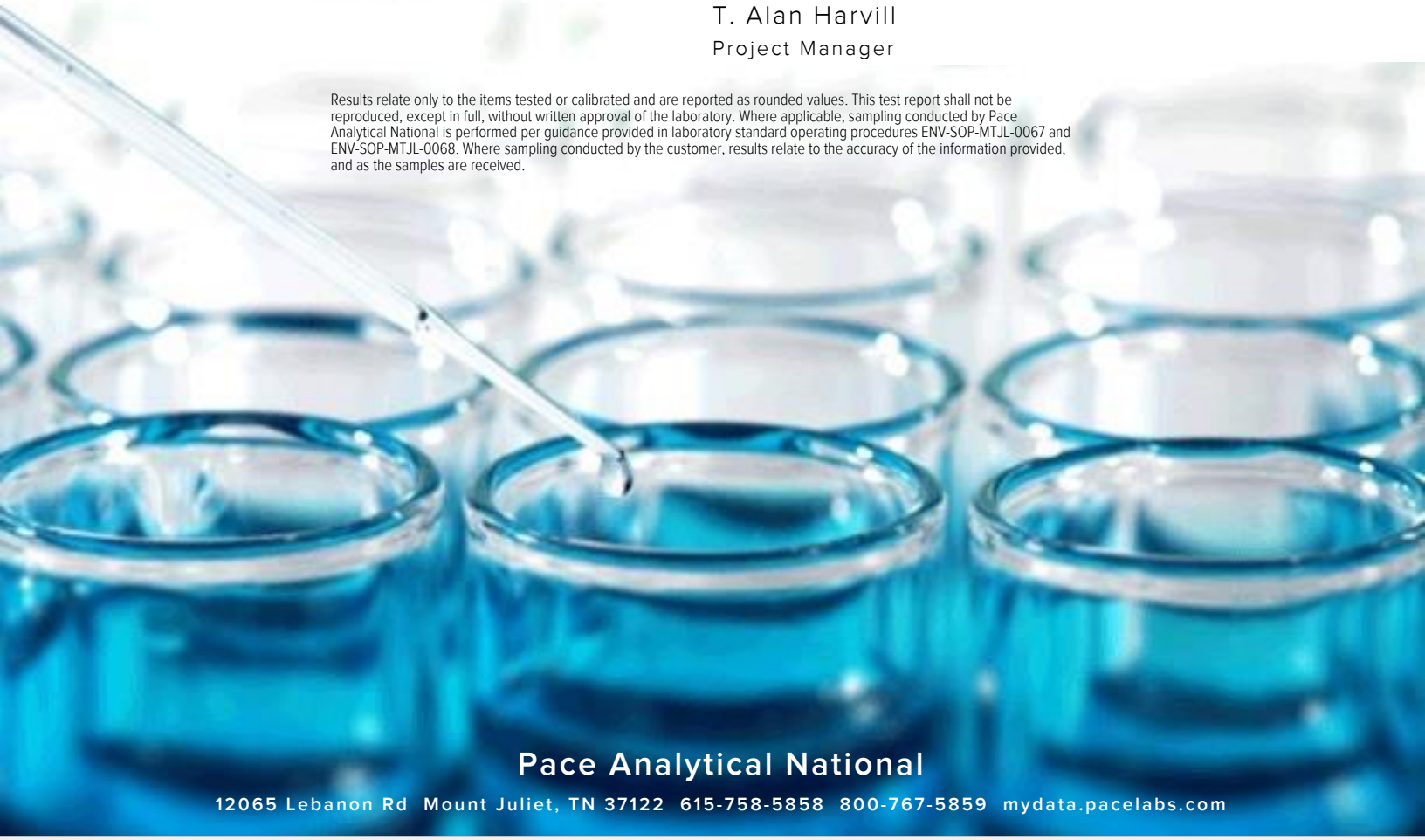
Report To:

Mr. Abdo Chaber
108 Craddock Way, Suite 5
Poca, WV 25159

Entire Report Reviewed By:

T. Alan Harvill
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

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GVMC-VMP-IA-01-1043 L1787977-01 Air

Collected by: Chris Hedrick | Collected date/time: 10/09/24 16:25 | Received date/time: 10/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2381293	1	10/14/24 01:16	10/14/24 01:16	GH	Mt. Juliet, TN

GVMC-VMP-02-01-1044 L1787977-02 Air

Collected by: Chris Hedrick | Collected date/time: 10/09/24 15:10 | Received date/time: 10/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2381293	1	10/14/24 01:55	10/14/24 01:55	GH	Mt. Juliet, TN

GVMC-VMP-03-01-1045 L1787977-03 Air

Collected by: Chris Hedrick | Collected date/time: 10/09/24 17:15 | Received date/time: 10/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2381293	1	10/14/24 02:34	10/14/24 02:34	GH	Mt. Juliet, TN

GVMC-VMP-03-02-1046 L1787977-04 Air

Collected by: Chris Hedrick | Collected date/time: 10/09/24 17:15 | Received date/time: 10/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2381293	1	10/14/24 03:13	10/14/24 03:13	GH	Mt. Juliet, TN

GVMC-VMP-01-01-1047 L1787977-05 Air

Collected by: Chris Hedrick | Collected date/time: 10/09/24 16:00 | Received date/time: 10/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2381293	1	10/14/24 03:52	10/14/24 03:52	GH	Mt. Juliet, TN

GVMC-FB-01-1048 L1787977-06 Air

Collected by: Chris Hedrick | Collected date/time: 10/09/24 17:40 | Received date/time: 10/11/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (MS) by Method TO-15	WG2381293	1	10/14/24 04:30	10/14/24 04:30	GH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	0.584	1.25	2.97	6.26	14.9		1	WG2381293
Allyl chloride	107-05-1	76.53	0.114	0.200	0.626	U	U		1	WG2381293
Benzene	71-43-2	78.10	0.0715	0.200	0.639	0.119	0.380	J	1	WG2381293
Benzyl Chloride	100-44-7	127	0.0598	0.200	1.04	U	U		1	WG2381293
Bromodichloromethane	75-27-4	164	0.0702	0.200	1.34	U	U		1	WG2381293
Bromoform	75-25-2	253	0.0732	0.600	6.21	U	U		1	WG2381293
Bromomethane	74-83-9	94.90	0.0982	0.200	0.776	U	U		1	WG2381293
1,3-Butadiene	106-99-0	54.10	0.104	2.00	4.43	U	U		1	WG2381293
Carbon disulfide	75-15-0	76.10	0.102	0.400	1.24	1.38	4.30		1	WG2381293
Carbon tetrachloride	56-23-5	154	0.0732	0.200	1.26	U	U		1	WG2381293
Chlorobenzene	108-90-7	113	0.0832	0.200	0.924	U	U		1	WG2381293
Chloroethane	75-00-3	64.50	0.0996	0.200	0.528	U	U		1	WG2381293
Chloroform	67-66-3	119	0.0717	0.200	0.973	U	U		1	WG2381293
Chloromethane	74-87-3	50.50	0.103	0.200	0.413	0.513	1.06		1	WG2381293
2-Chlorotoluene	95-49-8	126	0.0828	0.200	1.03	U	U		1	WG2381293
Cyclohexane	110-82-7	84.20	0.0753	0.200	0.689	U	U		1	WG2381293
Dibromochloromethane	124-48-1	208	0.0727	0.200	1.70	U	U		1	WG2381293
1,2-Dibromoethane	106-93-4	188	0.0721	0.200	1.54	U	U		1	WG2381293
1,2-Dichlorobenzene	95-50-1	147	0.128	0.200	1.20	U	U		1	WG2381293
1,3-Dichlorobenzene	541-73-1	147	0.182	0.200	1.20	U	U		1	WG2381293
1,4-Dichlorobenzene	106-46-7	147	0.0557	0.200	1.20	U	U		1	WG2381293
1,2-Dichloroethane	107-06-2	99	0.0700	0.200	0.810	U	U		1	WG2381293
1,1-Dichloroethane	75-34-3	98	0.0723	0.200	0.802	U	U		1	WG2381293
1,1-Dichloroethene	75-35-4	96.90	0.0762	0.200	0.793	U	U		1	WG2381293
cis-1,2-Dichloroethene	156-59-2	96.90	0.0784	0.200	0.793	U	U		1	WG2381293
trans-1,2-Dichloroethene	156-60-5	96.90	0.0673	0.200	0.793	U	U		1	WG2381293
1,2-Dichloropropane	78-87-5	113	0.0760	0.200	0.924	U	U		1	WG2381293
cis-1,3-Dichloropropene	10061-01-5	111	0.0689	0.200	0.908	U	U		1	WG2381293
trans-1,3-Dichloropropene	10061-02-6	111	0.0728	0.200	0.908	U	U		1	WG2381293
1,4-Dioxane	123-91-1	88.10	0.0833	0.630	2.27	U	U		1	WG2381293
Ethanol	64-17-5	46.10	0.265	2.50	4.71	49.4	93.1		1	WG2381293
Ethylbenzene	100-41-4	106	0.0835	0.200	0.867	0.0853	0.370	J	1	WG2381293
4-Ethyltoluene	622-96-8	120	0.0783	0.200	0.982	0.120	0.589	J	1	WG2381293
Trichlorofluoromethane	75-69-4	137.40	0.0819	0.200	1.12	0.230	1.29		1	WG2381293
Dichlorodifluoromethane	75-71-8	120.92	0.137	0.200	0.989	0.431	2.13		1	WG2381293
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.0793	0.200	1.53	U	U		1	WG2381293
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.0890	0.200	1.40	U	U		1	WG2381293
Heptane	142-82-5	100	0.104	0.200	0.818	U	U		1	WG2381293
Hexachloro-1,3-butadiene	87-68-3	261	0.105	0.630	6.73	U	U		1	WG2381293
n-Hexane	110-54-3	86.20	0.206	0.630	2.22	U	U		1	WG2381293
Isopropylbenzene	98-82-8	120.20	0.0777	0.200	0.983	U	U		1	WG2381293
Methylene Chloride	75-09-2	84.90	0.0979	0.200	0.694	0.327	1.14		1	WG2381293
Methyl Butyl Ketone	591-78-6	100	0.133	1.25	5.11	U	U		1	WG2381293
2-Butanone (MEK)	78-93-3	72.10	0.0814	1.25	3.69	0.798	2.35	J	1	WG2381293
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.0765	1.25	5.12	U	U		1	WG2381293
Methyl methacrylate	80-62-6	100.12	0.0876	0.200	0.819	U	U		1	WG2381293
MTBE	1634-04-4	88.10	0.0647	0.200	0.721	U	U		1	WG2381293
Naphthalene	91-20-3	128	0.350	0.630	3.30	U	U		1	WG2381293
2-Propanol	67-63-0	60.10	0.264	1.25	3.07	47.6	117		1	WG2381293
Propene	115-07-1	42.10	0.0932	1.25	2.15	1.54	2.65	B	1	WG2381293
Styrene	100-42-5	104	0.0788	0.400	1.70	0.103	0.438	J	1	WG2381293
1,1,2,2-Tetrachloroethane	79-34-5	168	0.0743	0.200	1.37	U	U		1	WG2381293
Tetrachloroethylene	127-18-4	166	0.0814	0.200	1.36	U	U		1	WG2381293
Tetrahydrofuran	109-99-9	72.10	0.0734	0.200	0.590	U	U		1	WG2381293
Toluene	108-88-3	92.10	0.0870	0.500	1.88	0.652	2.46		1	WG2381293
1,2,4-Trichlorobenzene	120-82-1	181	0.148	0.630	4.66	U	U		1	WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.0736	0.200	1.09	U	U		1	WG2381293
1,1,2-Trichloroethane	79-00-5	133	0.0775	0.200	1.09	U	U		1	WG2381293
Trichloroethylene	79-01-6	131	0.0680	0.200	1.07	U	U		1	WG2381293
1,2,4-Trimethylbenzene	95-63-6	120	0.0764	0.200	0.982	0.116	0.569	J	1	WG2381293
1,3,5-Trimethylbenzene	108-67-8	120	0.0779	0.200	0.982	U	U		1	WG2381293
2,2,4-Trimethylpentane	540-84-1	114.22	0.133	0.200	0.934	U	U		1	WG2381293
Vinyl chloride	75-01-4	62.50	0.0949	0.200	0.511	U	U		1	WG2381293
Vinyl Bromide	593-60-2	106.95	0.0852	0.200	0.875	U	U		1	WG2381293
Vinyl acetate	108-05-4	86.10	0.116	0.630	2.22	U	U		1	WG2381293
Xylenes, Total	1330-20-7	106.16	0.135	0.600	2.61	0.317	1.38	J	1	WG2381293
m&p-Xylene	179601-23-1	106	0.135	0.400	1.73	0.220	0.954	J	1	WG2381293
o-Xylene	95-47-6	106	0.0828	0.200	0.867	0.0969	0.420	J	1	WG2381293
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*60.0-140*		*99.8*				WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	0.584	1.25	2.97	15.3	36.4		1	WG2381293
Allyl chloride	107-05-1	76.53	0.114	0.200	0.626	U	U		1	WG2381293
Benzene	71-43-2	78.10	0.0715	0.200	0.639	0.138	0.441	J	1	WG2381293
Benzyl Chloride	100-44-7	127	0.0598	0.200	1.04	U	U		1	WG2381293
Bromodichloromethane	75-27-4	164	0.0702	0.200	1.34	U	U		1	WG2381293
Bromoform	75-25-2	253	0.0732	0.600	6.21	U	U		1	WG2381293
Bromomethane	74-83-9	94.90	0.0982	0.200	0.776	U	U		1	WG2381293
1,3-Butadiene	106-99-0	54.10	0.104	2.00	4.43	U	U		1	WG2381293
Carbon disulfide	75-15-0	76.10	0.102	0.400	1.24	0.660	2.05		1	WG2381293
Carbon tetrachloride	56-23-5	154	0.0732	0.200	1.26	U	U		1	WG2381293
Chlorobenzene	108-90-7	113	0.0832	0.200	0.924	U	U		1	WG2381293
Chloroethane	75-00-3	64.50	0.0996	0.200	0.528	U	U		1	WG2381293
Chloroform	67-66-3	119	0.0717	0.200	0.973	U	U		1	WG2381293
Chloromethane	74-87-3	50.50	0.103	0.200	0.413	0.335	0.692		1	WG2381293
2-Chlorotoluene	95-49-8	126	0.0828	0.200	1.03	U	U		1	WG2381293
Cyclohexane	110-82-7	84.20	0.0753	0.200	0.689	U	U		1	WG2381293
Dibromochloromethane	124-48-1	208	0.0727	0.200	1.70	U	U		1	WG2381293
1,2-Dibromoethane	106-93-4	188	0.0721	0.200	1.54	U	U		1	WG2381293
1,2-Dichlorobenzene	95-50-1	147	0.128	0.200	1.20	U	U		1	WG2381293
1,3-Dichlorobenzene	541-73-1	147	0.182	0.200	1.20	U	U		1	WG2381293
1,4-Dichlorobenzene	106-46-7	147	0.0557	0.200	1.20	U	U		1	WG2381293
1,2-Dichloroethane	107-06-2	99	0.0700	0.200	0.810	U	U		1	WG2381293
1,1-Dichloroethane	75-34-3	98	0.0723	0.200	0.802	U	U		1	WG2381293
1,1-Dichloroethene	75-35-4	96.90	0.0762	0.200	0.793	U	U		1	WG2381293
cis-1,2-Dichloroethene	156-59-2	96.90	0.0784	0.200	0.793	U	U		1	WG2381293
trans-1,2-Dichloroethene	156-60-5	96.90	0.0673	0.200	0.793	U	U		1	WG2381293
1,2-Dichloropropane	78-87-5	113	0.0760	0.200	0.924	U	U		1	WG2381293
cis-1,3-Dichloropropene	10061-01-5	111	0.0689	0.200	0.908	U	U		1	WG2381293
trans-1,3-Dichloropropene	10061-02-6	111	0.0728	0.200	0.908	U	U		1	WG2381293
1,4-Dioxane	123-91-1	88.10	0.0833	0.630	2.27	U	U		1	WG2381293
Ethanol	64-17-5	46.10	0.265	2.50	4.71	45.9	86.5		1	WG2381293
Ethylbenzene	100-41-4	106	0.0835	0.200	0.867	0.140	0.607	J	1	WG2381293
4-Ethyltoluene	622-96-8	120	0.0783	0.200	0.982	0.272	1.33		1	WG2381293
Trichlorofluoromethane	75-69-4	137.40	0.0819	0.200	1.12	0.224	1.26		1	WG2381293
Dichlorodifluoromethane	75-71-8	120.92	0.137	0.200	0.989	0.374	1.85		1	WG2381293
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.0793	0.200	1.53	0.0805	0.617	J	1	WG2381293
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.0890	0.200	1.40	U	U		1	WG2381293
Heptane	142-82-5	100	0.104	0.200	0.818	U	U		1	WG2381293
Hexachloro-1,3-butadiene	87-68-3	261	0.105	0.630	6.73	U	U		1	WG2381293
n-Hexane	110-54-3	86.20	0.206	0.630	2.22	U	U		1	WG2381293
Isopropylbenzene	98-82-8	120.20	0.0777	0.200	0.983	U	U		1	WG2381293
Methylene Chloride	75-09-2	84.90	0.0979	0.200	0.694	0.237	0.823		1	WG2381293
Methyl Butyl Ketone	591-78-6	100	0.133	1.25	5.11	U	U		1	WG2381293
2-Butanone (MEK)	78-93-3	72.10	0.0814	1.25	3.69	9.23	27.2		1	WG2381293
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.0765	1.25	5.12	0.243	0.995	J	1	WG2381293
Methyl methacrylate	80-62-6	100.12	0.0876	0.200	0.819	U	U		1	WG2381293
MTBE	1634-04-4	88.10	0.0647	0.200	0.721	U	U		1	WG2381293
Naphthalene	91-20-3	128	0.350	0.630	3.30	U	U		1	WG2381293
2-Propanol	67-63-0	60.10	0.264	1.25	3.07	38.5	94.6		1	WG2381293
Propene	115-07-1	42.10	0.0932	1.25	2.15	1.44	2.48	B	1	WG2381293
Styrene	100-42-5	104	0.0788	0.400	1.70	0.143	0.608	J	1	WG2381293
1,1,2,2-Tetrachloroethane	79-34-5	168	0.0743	0.200	1.37	U	U		1	WG2381293
Tetrachloroethylene	127-18-4	166	0.0814	0.200	1.36	U	U		1	WG2381293
Tetrahydrofuran	109-99-9	72.10	0.0734	0.200	0.590	16.1	47.5		1	WG2381293
Toluene	108-88-3	92.10	0.0870	0.500	1.88	3.51	13.2		1	WG2381293
1,2,4-Trichlorobenzene	120-82-1	181	0.148	0.630	4.66	U	U		1	WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.0736	0.200	1.09	U	U		1	WG2381293
1,1,2-Trichloroethane	79-00-5	133	0.0775	0.200	1.09	U	U		1	WG2381293
Trichloroethylene	79-01-6	131	0.0680	0.200	1.07	U	U		1	WG2381293
1,2,4-Trimethylbenzene	95-63-6	120	0.0764	0.200	0.982	0.380	1.87		1	WG2381293
1,3,5-Trimethylbenzene	108-67-8	120	0.0779	0.200	0.982	0.102	0.501	J	1	WG2381293
2,2,4-Trimethylpentane	540-84-1	114.22	0.133	0.200	0.934	0.916	4.28		1	WG2381293
Vinyl chloride	75-01-4	62.50	0.0949	0.200	0.511	U	U		1	WG2381293
Vinyl Bromide	593-60-2	106.95	0.0852	0.200	0.875	U	U		1	WG2381293
Vinyl acetate	108-05-4	86.10	0.116	0.630	2.22	U	U		1	WG2381293
Xylenes, Total	1330-20-7	106.16	0.135	0.600	2.61	0.766	3.33		1	WG2381293
m&p-Xylene	179601-23-1	106	0.135	0.400	1.73	0.523	2.27		1	WG2381293
o-Xylene	95-47-6	106	0.0828	0.200	0.867	0.243	1.05		1	WG2381293
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*60.0-140*		*96.2*				WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	0.584	1.25	2.97	58.6	139		1	WG2381293
Allyl chloride	107-05-1	76.53	0.114	0.200	0.626	U	U		1	WG2381293
Benzene	71-43-2	78.10	0.0715	0.200	0.639	0.232	0.741		1	WG2381293
Benzyl Chloride	100-44-7	127	0.0598	0.200	1.04	U	U		1	WG2381293
Bromodichloromethane	75-27-4	164	0.0702	0.200	1.34	U	U		1	WG2381293
Bromoform	75-25-2	253	0.0732	0.600	6.21	U	U		1	WG2381293
Bromomethane	74-83-9	94.90	0.0982	0.200	0.776	U	U		1	WG2381293
1,3-Butadiene	106-99-0	54.10	0.104	2.00	4.43	U	U		1	WG2381293
Carbon disulfide	75-15-0	76.10	0.102	0.400	1.24	0.477	1.48		1	WG2381293
Carbon tetrachloride	56-23-5	154	0.0732	0.200	1.26	U	U		1	WG2381293
Chlorobenzene	108-90-7	113	0.0832	0.200	0.924	U	U		1	WG2381293
Chloroethane	75-00-3	64.50	0.0996	0.200	0.528	U	U		1	WG2381293
Chloroform	67-66-3	119	0.0717	0.200	0.973	U	U		1	WG2381293
Chloromethane	74-87-3	50.50	0.103	0.200	0.413	0.691	1.43		1	WG2381293
2-Chlorotoluene	95-49-8	126	0.0828	0.200	1.03	U	U		1	WG2381293
Cyclohexane	110-82-7	84.20	0.0753	0.200	0.689	U	U		1	WG2381293
Dibromochloromethane	124-48-1	208	0.0727	0.200	1.70	U	U		1	WG2381293
1,2-Dibromoethane	106-93-4	188	0.0721	0.200	1.54	U	U		1	WG2381293
1,2-Dichlorobenzene	95-50-1	147	0.128	0.200	1.20	U	U		1	WG2381293
1,3-Dichlorobenzene	541-73-1	147	0.182	0.200	1.20	U	U		1	WG2381293
1,4-Dichlorobenzene	106-46-7	147	0.0557	0.200	1.20	0.125	0.752	J	1	WG2381293
1,2-Dichloroethane	107-06-2	99	0.0700	0.200	0.810	U	U		1	WG2381293
1,1-Dichloroethane	75-34-3	98	0.0723	0.200	0.802	U	U		1	WG2381293
1,1-Dichloroethene	75-35-4	96.90	0.0762	0.200	0.793	U	U		1	WG2381293
cis-1,2-Dichloroethene	156-59-2	96.90	0.0784	0.200	0.793	U	U		1	WG2381293
trans-1,2-Dichloroethene	156-60-5	96.90	0.0673	0.200	0.793	U	U		1	WG2381293
1,2-Dichloropropane	78-87-5	113	0.0760	0.200	0.924	U	U		1	WG2381293
cis-1,3-Dichloropropene	10061-01-5	111	0.0689	0.200	0.908	U	U		1	WG2381293
trans-1,3-Dichloropropene	10061-02-6	111	0.0728	0.200	0.908	U	U		1	WG2381293
1,4-Dioxane	123-91-1	88.10	0.0833	0.630	2.27	U	U		1	WG2381293
Ethanol	64-17-5	46.10	0.265	2.50	4.71	55.2	104		1	WG2381293
Ethylbenzene	100-41-4	106	0.0835	0.200	0.867	0.245	1.06		1	WG2381293
4-Ethyltoluene	622-96-8	120	0.0783	0.200	0.982	0.493	2.42		1	WG2381293
Trichlorofluoromethane	75-69-4	137.40	0.0819	0.200	1.12	0.230	1.29		1	WG2381293
Dichlorodifluoromethane	75-71-8	120.92	0.137	0.200	0.989	0.426	2.11		1	WG2381293
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.0793	0.200	1.53	U	U		1	WG2381293
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.0890	0.200	1.40	U	U		1	WG2381293
Heptane	142-82-5	100	0.104	0.200	0.818	U	U		1	WG2381293
Hexachloro-1,3-butadiene	87-68-3	261	0.105	0.630	6.73	U	U		1	WG2381293
n-Hexane	110-54-3	86.20	0.206	0.630	2.22	U	U		1	WG2381293
Isopropylbenzene	98-82-8	120.20	0.0777	0.200	0.983	U	U		1	WG2381293
Methylene Chloride	75-09-2	84.90	0.0979	0.200	0.694	0.178	0.618	J	1	WG2381293
Methyl Butyl Ketone	591-78-6	100	0.133	1.25	5.11	U	U		1	WG2381293
2-Butanone (MEK)	78-93-3	72.10	0.0814	1.25	3.69	18.9	55.7		1	WG2381293
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.0765	1.25	5.12	2.30	9.42		1	WG2381293
Methyl methacrylate	80-62-6	100.12	0.0876	0.200	0.819	U	U		1	WG2381293
MTBE	1634-04-4	88.10	0.0647	0.200	0.721	U	U		1	WG2381293
Naphthalene	91-20-3	128	0.350	0.630	3.30	U	U		1	WG2381293
2-Propanol	67-63-0	60.10	0.264	1.25	3.07	5.97	14.7		1	WG2381293
Propene	115-07-1	42.10	0.0932	1.25	2.15	1.41	2.43	B	1	WG2381293
Styrene	100-42-5	104	0.0788	0.400	1.70	U	U		1	WG2381293
1,1,2,2-Tetrachloroethane	79-34-5	168	0.0743	0.200	1.37	U	U		1	WG2381293
Tetrachloroethylene	127-18-4	166	0.0814	0.200	1.36	U	U		1	WG2381293
Tetrahydrofuran	109-99-9	72.10	0.0734	0.200	0.590	25.6	75.5		1	WG2381293
Toluene	108-88-3	92.10	0.0870	0.500	1.88	5.74	21.6		1	WG2381293
1,2,4-Trichlorobenzene	120-82-1	181	0.148	0.630	4.66	U	U		1	WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.0736	0.200	1.09	U	U		1	WG2381293
1,1,2-Trichloroethane	79-00-5	133	0.0775	0.200	1.09	U	U		1	WG2381293
Trichloroethylene	79-01-6	131	0.0680	0.200	1.07	U	U		1	WG2381293
1,2,4-Trimethylbenzene	95-63-6	120	0.0764	0.200	0.982	0.755	3.71		1	WG2381293
1,3,5-Trimethylbenzene	108-67-8	120	0.0779	0.200	0.982	0.188	0.923	J	1	WG2381293
2,2,4-Trimethylpentane	540-84-1	114.22	0.133	0.200	0.934	1.24	5.79		1	WG2381293
Vinyl chloride	75-01-4	62.50	0.0949	0.200	0.511	U	U		1	WG2381293
Vinyl Bromide	593-60-2	106.95	0.0852	0.200	0.875	U	U		1	WG2381293
Vinyl acetate	108-05-4	86.10	0.116	0.630	2.22	U	U		1	WG2381293
Xylenes, Total	1330-20-7	106.16	0.135	0.600	2.61	1.36	5.91		1	WG2381293
m&p-Xylene	179601-23-1	106	0.135	0.400	1.73	0.941	4.08		1	WG2381293
o-Xylene	95-47-6	106	0.0828	0.200	0.867	0.422	1.83		1	WG2381293
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*60.0-140*		*96.2*				WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	0.584	1.25	2.97	49.6	118		1	WG2381293
Allyl chloride	107-05-1	76.53	0.114	0.200	0.626	U	U		1	WG2381293
Benzene	71-43-2	78.10	0.0715	0.200	0.639	0.213	0.680		1	WG2381293
Benzyl Chloride	100-44-7	127	0.0598	0.200	1.04	U	U		1	WG2381293
Bromodichloromethane	75-27-4	164	0.0702	0.200	1.34	U	U		1	WG2381293
Bromoform	75-25-2	253	0.0732	0.600	6.21	U	U		1	WG2381293
Bromomethane	74-83-9	94.90	0.0982	0.200	0.776	U	U		1	WG2381293
1,3-Butadiene	106-99-0	54.10	0.104	2.00	4.43	U	U		1	WG2381293
Carbon disulfide	75-15-0	76.10	0.102	0.400	1.24	0.413	1.29		1	WG2381293
Carbon tetrachloride	56-23-5	154	0.0732	0.200	1.26	0.0749	0.472	J	1	WG2381293
Chlorobenzene	108-90-7	113	0.0832	0.200	0.924	U	U		1	WG2381293
Chloroethane	75-00-3	64.50	0.0996	0.200	0.528	U	U		1	WG2381293
Chloroform	67-66-3	119	0.0717	0.200	0.973	U	U		1	WG2381293
Chloromethane	74-87-3	50.50	0.103	0.200	0.413	0.606	1.25		1	WG2381293
2-Chlorotoluene	95-49-8	126	0.0828	0.200	1.03	U	U		1	WG2381293
Cyclohexane	110-82-7	84.20	0.0753	0.200	0.689	U	U		1	WG2381293
Dibromochloromethane	124-48-1	208	0.0727	0.200	1.70	U	U		1	WG2381293
1,2-Dibromoethane	106-93-4	188	0.0721	0.200	1.54	U	U		1	WG2381293
1,2-Dichlorobenzene	95-50-1	147	0.128	0.200	1.20	U	U		1	WG2381293
1,3-Dichlorobenzene	541-73-1	147	0.182	0.200	1.20	U	U		1	WG2381293
1,4-Dichlorobenzene	106-46-7	147	0.0557	0.200	1.20	0.0923	0.555	J	1	WG2381293
1,2-Dichloroethane	107-06-2	99	0.0700	0.200	0.810	U	U		1	WG2381293
1,1-Dichloroethane	75-34-3	98	0.0723	0.200	0.802	U	U		1	WG2381293
1,1-Dichloroethene	75-35-4	96.90	0.0762	0.200	0.793	U	U		1	WG2381293
cis-1,2-Dichloroethene	156-59-2	96.90	0.0784	0.200	0.793	U	U		1	WG2381293
trans-1,2-Dichloroethene	156-60-5	96.90	0.0673	0.200	0.793	U	U		1	WG2381293
1,2-Dichloropropane	78-87-5	113	0.0760	0.200	0.924	U	U		1	WG2381293
cis-1,3-Dichloropropene	10061-01-5	111	0.0689	0.200	0.908	U	U		1	WG2381293
trans-1,3-Dichloropropene	10061-02-6	111	0.0728	0.200	0.908	U	U		1	WG2381293
1,4-Dioxane	123-91-1	88.10	0.0833	0.630	2.27	U	U		1	WG2381293
Ethanol	64-17-5	46.10	0.265	2.50	4.71	46.7	88.1		1	WG2381293
Ethylbenzene	100-41-4	106	0.0835	0.200	0.867	0.234	1.01		1	WG2381293
4-Ethyltoluene	622-96-8	120	0.0783	0.200	0.982	0.579	2.84		1	WG2381293
Trichlorofluoromethane	75-69-4	137.40	0.0819	0.200	1.12	0.221	1.24		1	WG2381293
Dichlorodifluoromethane	75-71-8	120.92	0.137	0.200	0.989	0.417	2.06		1	WG2381293
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.0793	0.200	1.53	U	U		1	WG2381293
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.0890	0.200	1.40	U	U		1	WG2381293
Heptane	142-82-5	100	0.104	0.200	0.818	U	U		1	WG2381293
Hexachloro-1,3-butadiene	87-68-3	261	0.105	0.630	6.73	U	U		1	WG2381293
n-Hexane	110-54-3	86.20	0.206	0.630	2.22	U	U		1	WG2381293
Isopropylbenzene	98-82-8	120.20	0.0777	0.200	0.983	U	U		1	WG2381293
Methylene Chloride	75-09-2	84.90	0.0979	0.200	0.694	0.202	0.701		1	WG2381293
Methyl Butyl Ketone	591-78-6	100	0.133	1.25	5.11	U	U		1	WG2381293
2-Butanone (MEK)	78-93-3	72.10	0.0814	1.25	3.69	15.7	46.3		1	WG2381293
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.0765	1.25	5.12	1.91	7.82		1	WG2381293
Methyl methacrylate	80-62-6	100.12	0.0876	0.200	0.819	U	U		1	WG2381293
MTBE	1634-04-4	88.10	0.0647	0.200	0.721	U	U		1	WG2381293
Naphthalene	91-20-3	128	0.350	0.630	3.30	U	U		1	WG2381293
2-Propanol	67-63-0	60.10	0.264	1.25	3.07	5.05	12.4		1	WG2381293
Propene	115-07-1	42.10	0.0932	1.25	2.15	1.31	2.26	B	1	WG2381293
Styrene	100-42-5	104	0.0788	0.400	1.70	U	U		1	WG2381293
1,1,2,2-Tetrachloroethane	79-34-5	168	0.0743	0.200	1.37	U	U		1	WG2381293
Tetrachloroethylene	127-18-4	166	0.0814	0.200	1.36	U	U		1	WG2381293
Tetrahydrofuran	109-99-9	72.10	0.0734	0.200	0.590	21.3	62.8		1	WG2381293
Toluene	108-88-3	92.10	0.0870	0.500	1.88	4.92	18.5		1	WG2381293
1,2,4-Trichlorobenzene	120-82-1	181	0.148	0.630	4.66	U	U		1	WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.0736	0.200	1.09	U	U		1	WG2381293
1,1,2-Trichloroethane	79-00-5	133	0.0775	0.200	1.09	U	U		1	WG2381293
Trichloroethylene	79-01-6	131	0.0680	0.200	1.07	U	U		1	WG2381293
1,2,4-Trimethylbenzene	95-63-6	120	0.0764	0.200	0.982	0.745	3.66		1	WG2381293
1,3,5-Trimethylbenzene	108-67-8	120	0.0779	0.200	0.982	0.197	0.967	J	1	WG2381293
2,2,4-Trimethylpentane	540-84-1	114.22	0.133	0.200	0.934	1.07	5.00		1	WG2381293
Vinyl chloride	75-01-4	62.50	0.0949	0.200	0.511	U	U		1	WG2381293
Vinyl Bromide	593-60-2	106.95	0.0852	0.200	0.875	U	U		1	WG2381293
Vinyl acetate	108-05-4	86.10	0.116	0.630	2.22	U	U		1	WG2381293
Xylenes, Total	1330-20-7	106.16	0.135	0.600	2.61	1.40	6.08		1	WG2381293
m&p-Xylene	179601-23-1	106	0.135	0.400	1.73	0.989	4.29		1	WG2381293
o-Xylene	95-47-6	106	0.0828	0.200	0.867	0.412	1.79		1	WG2381293
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*60.0-140*		*96.5*				WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	0.584	1.25	2.97	57.4	136		1	WG2381293
Allyl chloride	107-05-1	76.53	0.114	0.200	0.626	U	U		1	WG2381293
Benzene	71-43-2	78.10	0.0715	0.200	0.639	0.154	0.492	J	1	WG2381293
Benzyl Chloride	100-44-7	127	0.0598	0.200	1.04	U	U		1	WG2381293
Bromodichloromethane	75-27-4	164	0.0702	0.200	1.34	U	U		1	WG2381293
Bromoform	75-25-2	253	0.0732	0.600	6.21	U	U		1	WG2381293
Bromomethane	74-83-9	94.90	0.0982	0.200	0.776	U	U		1	WG2381293
1,3-Butadiene	106-99-0	54.10	0.104	2.00	4.43	U	U		1	WG2381293
Carbon disulfide	75-15-0	76.10	0.102	0.400	1.24	2.34	7.28		1	WG2381293
Carbon tetrachloride	56-23-5	154	0.0732	0.200	1.26	U	U		1	WG2381293
Chlorobenzene	108-90-7	113	0.0832	0.200	0.924	U	U		1	WG2381293
Chloroethane	75-00-3	64.50	0.0996	0.200	0.528	U	U		1	WG2381293
Chloroform	67-66-3	119	0.0717	0.200	0.973	U	U		1	WG2381293
Chloromethane	74-87-3	50.50	0.103	0.200	0.413	1.06	2.19		1	WG2381293
2-Chlorotoluene	95-49-8	126	0.0828	0.200	1.03	U	U		1	WG2381293
Cyclohexane	110-82-7	84.20	0.0753	0.200	0.689	0.302	1.04		1	WG2381293
Dibromochloromethane	124-48-1	208	0.0727	0.200	1.70	U	U		1	WG2381293
1,2-Dibromoethane	106-93-4	188	0.0721	0.200	1.54	U	U		1	WG2381293
1,2-Dichlorobenzene	95-50-1	147	0.128	0.200	1.20	U	U		1	WG2381293
1,3-Dichlorobenzene	541-73-1	147	0.182	0.200	1.20	U	U		1	WG2381293
1,4-Dichlorobenzene	106-46-7	147	0.0557	0.200	1.20	0.0649	0.390	J	1	WG2381293
1,2-Dichloroethane	107-06-2	99	0.0700	0.200	0.810	U	U		1	WG2381293
1,1-Dichloroethane	75-34-3	98	0.0723	0.200	0.802	U	U		1	WG2381293
1,1-Dichloroethene	75-35-4	96.90	0.0762	0.200	0.793	U	U		1	WG2381293
cis-1,2-Dichloroethene	156-59-2	96.90	0.0784	0.200	0.793	U	U		1	WG2381293
trans-1,2-Dichloroethene	156-60-5	96.90	0.0673	0.200	0.793	U	U		1	WG2381293
1,2-Dichloropropane	78-87-5	113	0.0760	0.200	0.924	U	U		1	WG2381293
cis-1,3-Dichloropropene	10061-01-5	111	0.0689	0.200	0.908	U	U		1	WG2381293
trans-1,3-Dichloropropene	10061-02-6	111	0.0728	0.200	0.908	U	U		1	WG2381293
1,4-Dioxane	123-91-1	88.10	0.0833	0.630	2.27	U	U		1	WG2381293
Ethanol	64-17-5	46.10	0.265	2.50	4.71	75.0	141		1	WG2381293
Ethylbenzene	100-41-4	106	0.0835	0.200	0.867	0.217	0.941		1	WG2381293
4-Ethyltoluene	622-96-8	120	0.0783	0.200	0.982	0.279	1.37		1	WG2381293
Trichlorofluoromethane	75-69-4	137.40	0.0819	0.200	1.12	0.231	1.30		1	WG2381293
Dichlorodifluoromethane	75-71-8	120.92	0.137	0.200	0.989	0.376	1.86		1	WG2381293
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.0793	0.200	1.53	U	U		1	WG2381293
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.0890	0.200	1.40	U	U		1	WG2381293
Heptane	142-82-5	100	0.104	0.200	0.818	U	U		1	WG2381293
Hexachloro-1,3-butadiene	87-68-3	261	0.105	0.630	6.73	U	U		1	WG2381293
n-Hexane	110-54-3	86.20	0.206	0.630	2.22	U	U		1	WG2381293
Isopropylbenzene	98-82-8	120.20	0.0777	0.200	0.983	U	U		1	WG2381293
Methylene Chloride	75-09-2	84.90	0.0979	0.200	0.694	0.152	0.528	J	1	WG2381293
Methyl Butyl Ketone	591-78-6	100	0.133	1.25	5.11	U	U		1	WG2381293
2-Butanone (MEK)	78-93-3	72.10	0.0814	1.25	3.69	24.9	73.4		1	WG2381293
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.0765	1.25	5.12	0.568	2.33	J	1	WG2381293
Methyl methacrylate	80-62-6	100.12	0.0876	0.200	0.819	U	U		1	WG2381293
MTBE	1634-04-4	88.10	0.0647	0.200	0.721	U	U		1	WG2381293
Naphthalene	91-20-3	128	0.350	0.630	3.30	U	U		1	WG2381293
2-Propanol	67-63-0	60.10	0.264	1.25	3.07	4.17	10.3		1	WG2381293
Propene	115-07-1	42.10	0.0932	1.25	2.15	1.32	2.27	B	1	WG2381293
Styrene	100-42-5	104	0.0788	0.400	1.70	U	U		1	WG2381293
1,1,2,2-Tetrachloroethane	79-34-5	168	0.0743	0.200	1.37	U	U		1	WG2381293
Tetrachloroethylene	127-18-4	166	0.0814	0.200	1.36	U	U		1	WG2381293
Tetrahydrofuran	109-99-9	72.10	0.0734	0.200	0.590	30.8	90.8		1	WG2381293
Toluene	108-88-3	92.10	0.0870	0.500	1.88	9.70	36.5		1	WG2381293
1,2,4-Trichlorobenzene	120-82-1	181	0.148	0.630	4.66	U	U		1	WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.0736	0.200	1.09	U	U		1	WG2381293
1,1,2-Trichloroethane	79-00-5	133	0.0775	0.200	1.09	U	U		1	WG2381293
Trichloroethylene	79-01-6	131	0.0680	0.200	1.07	U	U		1	WG2381293
1,2,4-Trimethylbenzene	95-63-6	120	0.0764	0.200	0.982	0.379	1.86		1	WG2381293
1,3,5-Trimethylbenzene	108-67-8	120	0.0779	0.200	0.982	0.105	0.515	J	1	WG2381293
2,2,4-Trimethylpentane	540-84-1	114.22	0.133	0.200	0.934	2.98	13.9		1	WG2381293
Vinyl chloride	75-01-4	62.50	0.0949	0.200	0.511	U	U		1	WG2381293
Vinyl Bromide	593-60-2	106.95	0.0852	0.200	0.875	U	U		1	WG2381293
Vinyl acetate	108-05-4	86.10	0.116	0.630	2.22	U	U		1	WG2381293
Xylenes, Total	1330-20-7	106.16	0.135	0.600	2.61	1.16	5.04		1	WG2381293
m&p-Xylene	179601-23-1	106	0.135	0.400	1.73	0.792	3.43		1	WG2381293
o-Xylene	95-47-6	106	0.0828	0.200	0.867	0.367	1.59		1	WG2381293
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*60.0-140*		*98.3*				WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	0.584	1.25	2.97	7.51	17.8		1	WG2381293
Allyl chloride	107-05-1	76.53	0.114	0.200	0.626	U	U		1	WG2381293
Benzene	71-43-2	78.10	0.0715	0.200	0.639	0.107	0.342	J	1	WG2381293
Benzyl Chloride	100-44-7	127	0.0598	0.200	1.04	U	U		1	WG2381293
Bromodichloromethane	75-27-4	164	0.0702	0.200	1.34	U	U		1	WG2381293
Bromoform	75-25-2	253	0.0732	0.600	6.21	U	U		1	WG2381293
Bromomethane	74-83-9	94.90	0.0982	0.200	0.776	U	U		1	WG2381293
1,3-Butadiene	106-99-0	54.10	0.104	2.00	4.43	U	U		1	WG2381293
Carbon disulfide	75-15-0	76.10	0.102	0.400	1.24	30.2	94.0		1	WG2381293
Carbon tetrachloride	56-23-5	154	0.0732	0.200	1.26	U	U		1	WG2381293
Chlorobenzene	108-90-7	113	0.0832	0.200	0.924	U	U		1	WG2381293
Chloroethane	75-00-3	64.50	0.0996	0.200	0.528	U	U		1	WG2381293
Chloroform	67-66-3	119	0.0717	0.200	0.973	U	U		1	WG2381293
Chloromethane	74-87-3	50.50	0.103	0.200	0.413	U	U		1	WG2381293
2-Chlorotoluene	95-49-8	126	0.0828	0.200	1.03	U	U		1	WG2381293
Cyclohexane	110-82-7	84.20	0.0753	0.200	0.689	U	U		1	WG2381293
Dibromochloromethane	124-48-1	208	0.0727	0.200	1.70	U	U		1	WG2381293
1,2-Dibromoethane	106-93-4	188	0.0721	0.200	1.54	U	U		1	WG2381293
1,2-Dichlorobenzene	95-50-1	147	0.128	0.200	1.20	U	U		1	WG2381293
1,3-Dichlorobenzene	541-73-1	147	0.182	0.200	1.20	U	U		1	WG2381293
1,4-Dichlorobenzene	106-46-7	147	0.0557	0.200	1.20	U	U		1	WG2381293
1,2-Dichloroethane	107-06-2	99	0.0700	0.200	0.810	U	U		1	WG2381293
1,1-Dichloroethane	75-34-3	98	0.0723	0.200	0.802	U	U		1	WG2381293
1,1-Dichloroethene	75-35-4	96.90	0.0762	0.200	0.793	U	U		1	WG2381293
cis-1,2-Dichloroethene	156-59-2	96.90	0.0784	0.200	0.793	U	U		1	WG2381293
trans-1,2-Dichloroethene	156-60-5	96.90	0.0673	0.200	0.793	U	U		1	WG2381293
1,2-Dichloropropane	78-87-5	113	0.0760	0.200	0.924	U	U		1	WG2381293
cis-1,3-Dichloropropene	10061-01-5	111	0.0689	0.200	0.908	U	U		1	WG2381293
trans-1,3-Dichloropropene	10061-02-6	111	0.0728	0.200	0.908	U	U		1	WG2381293
1,4-Dioxane	123-91-1	88.10	0.0833	0.630	2.27	U	U		1	WG2381293
Ethanol	64-17-5	46.10	0.265	2.50	4.71	7.04	13.3		1	WG2381293
Ethylbenzene	100-41-4	106	0.0835	0.200	0.867	0.165	0.715	J	1	WG2381293
4-Ethyltoluene	622-96-8	120	0.0783	0.200	0.982	0.272	1.33		1	WG2381293
Trichlorofluoromethane	75-69-4	137.40	0.0819	0.200	1.12	U	U		1	WG2381293
Dichlorodifluoromethane	75-71-8	120.92	0.137	0.200	0.989	U	U		1	WG2381293
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.0793	0.200	1.53	U	U		1	WG2381293
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.0890	0.200	1.40	U	U		1	WG2381293
Heptane	142-82-5	100	0.104	0.200	0.818	U	U		1	WG2381293
Hexachloro-1,3-butadiene	87-68-3	261	0.105	0.630	6.73	U	U		1	WG2381293
n-Hexane	110-54-3	86.20	0.206	0.630	2.22	U	U		1	WG2381293
Isopropylbenzene	98-82-8	120.20	0.0777	0.200	0.983	U	U		1	WG2381293
Methylene Chloride	75-09-2	84.90	0.0979	0.200	0.694	U	U		1	WG2381293
Methyl Butyl Ketone	591-78-6	100	0.133	1.25	5.11	U	U		1	WG2381293
2-Butanone (MEK)	78-93-3	72.10	0.0814	1.25	3.69	2.38	7.02		1	WG2381293
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	0.0765	1.25	5.12	0.0952	0.390	J	1	WG2381293
Methyl methacrylate	80-62-6	100.12	0.0876	0.200	0.819	U	U		1	WG2381293
MTBE	1634-04-4	88.10	0.0647	0.200	0.721	U	U		1	WG2381293
Naphthalene	91-20-3	128	0.350	0.630	3.30	U	U		1	WG2381293
2-Propanol	67-63-0	60.10	0.264	1.25	3.07	0.543	1.33	J	1	WG2381293
Propene	115-07-1	42.10	0.0932	1.25	2.15	1.27	2.19	B	1	WG2381293
Styrene	100-42-5	104	0.0788	0.400	1.70	U	U		1	WG2381293
1,1,2,2-Tetrachloroethane	79-34-5	168	0.0743	0.200	1.37	U	U		1	WG2381293
Tetrachloroethylene	127-18-4	166	0.0814	0.200	1.36	U	U		1	WG2381293
Tetrahydrofuran	109-99-9	72.10	0.0734	0.200	0.590	2.47	7.28		1	WG2381293
Toluene	108-88-3	92.10	0.0870	0.500	1.88	2.01	7.57		1	WG2381293
1,2,4-Trichlorobenzene	120-82-1	181	0.148	0.630	4.66	U	U		1	WG2381293

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	MDL1 ppbv	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.0736	0.200	1.09	0.104	0.566	J	1	WG2381293
1,1,2-Trichloroethane	79-00-5	133	0.0775	0.200	1.09	U	U		1	WG2381293
Trichloroethylene	79-01-6	131	0.0680	0.200	1.07	U	U		1	WG2381293
1,2,4-Trimethylbenzene	95-63-6	120	0.0764	0.200	0.982	0.329	1.61		1	WG2381293
1,3,5-Trimethylbenzene	108-67-8	120	0.0779	0.200	0.982	0.0952	0.467	J	1	WG2381293
2,2,4-Trimethylpentane	540-84-1	114.22	0.133	0.200	0.934	0.210	0.981		1	WG2381293
Vinyl chloride	75-01-4	62.50	0.0949	0.200	0.511	U	U		1	WG2381293
Vinyl Bromide	593-60-2	106.95	0.0852	0.200	0.875	U	U		1	WG2381293
Vinyl acetate	108-05-4	86.10	0.116	0.630	2.22	U	U		1	WG2381293
Xylenes, Total	1330-20-7	106.16	0.135	0.600	2.61	0.898	3.90		1	WG2381293
m&p-Xylene	179601-23-1	106	0.135	0.400	1.73	0.659	2.86		1	WG2381293
o-Xylene	95-47-6	106	0.0828	0.200	0.867	0.239	1.04		1	WG2381293
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*		*60.0-140*		*101*				WG2381293

Method Blank (MB)

(MB) R4132488-3 10/13/24 10:27

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.584	1.25
Allyl chloride	U		0.114	0.200
Benzene	U		0.0715	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0702	0.200
Bromoform	U		0.0732	0.600
Bromomethane	U		0.0982	0.200
1,3-Butadiene	U		0.104	2.00
Carbon disulfide	U		0.102	0.400
Carbon tetrachloride	U		0.0732	0.200
Chlorobenzene	U		0.0832	0.200
Chloroethane	U		0.0996	0.200
Chloroform	U		0.0717	0.200
Chloromethane	U		0.103	0.200
2-Chlorotoluene	U		0.0828	0.200
Cyclohexane	U		0.0753	0.200
Dibromochloromethane	U		0.0727	0.200
1,2-Dibromoethane	U		0.0721	0.200
1,2-Dichlorobenzene	U		0.128	0.200
1,3-Dichlorobenzene	U		0.182	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0700	0.200
1,1-Dichloroethane	U		0.0723	0.200
1,1-Dichloroethene	U		0.0762	0.200
cis-1,2-Dichloroethene	U		0.0784	0.200
trans-1,2-Dichloroethene	U		0.0673	0.200
1,2-Dichloropropane	U		0.0760	0.200
cis-1,3-Dichloropropene	U		0.0689	0.200
trans-1,3-Dichloropropene	U		0.0728	0.200
1,4-Dioxane	U		0.0833	0.630
Ethanol	U		0.265	2.50
Ethylbenzene	U		0.0835	0.200
4-Ethyltoluene	U		0.0783	0.200
Trichlorofluoromethane	U		0.0819	0.200
Dichlorodifluoromethane	U		0.137	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0793	0.200
1,2-Dichlorotetrafluoroethane	U		0.0890	0.200
Heptane	U		0.104	0.200
Hexachloro-1,3-butadiene	U		0.105	0.630
n-Hexane	U		0.206	0.630

Method Blank (MB)

(MB) R4132488-3 10/13/24 10:27

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Isopropylbenzene	U		0.0777	0.200
Methylene Chloride	U		0.0979	0.200
Methyl Butyl Ketone	U		0.133	1.25
2-Butanone (MEK)	U		0.0814	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0765	1.25
Methyl methacrylate	U		0.0876	0.200
MTBE	U		0.0647	0.200
Naphthalene	U		0.350	0.630
2-Propanol	U		0.264	1.25
Propene	0.768	J	0.0932	1.25
Styrene	U		0.0788	0.400
1,1,2,2-Tetrachloroethane	U		0.0743	0.200
Tetrachloroethylene	U		0.0814	0.200
Tetrahydrofuran	U		0.0734	0.200
Toluene	U		0.0870	0.500
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0736	0.200
1,1,2-Trichloroethane	U		0.0775	0.200
Trichloroethylene	U		0.0680	0.200
1,2,4-Trimethylbenzene	U		0.0764	0.200
1,3,5-Trimethylbenzene	U		0.0779	0.200
2,2,4-Trimethylpentane	U		0.133	0.200
Vinyl chloride	U		0.0949	0.200
Vinyl Bromide	U		0.0852	0.200
Vinyl acetate	U		0.116	0.630
Xylenes, Total	U		0.135	0.600
m&p-Xylene	U		0.135	0.400
o-Xylene	U		0.0828	0.200
(S) 1,4-Bromofluorobenzene	*97.7*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4132488-1 10/13/24 09:10 • (LCSD) R4132488-2 10/13/24 09:49

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	3.75	3.73	3.68	99.5	98.1	70.0-130			1.35	25
Allyl chloride	3.75	3.97	3.89	106	104	70.0-130			2.04	25
Benzene	3.75	3.95	3.92	105	105	70.0-130			0.762	25
Benzyl Chloride	3.75	4.26	4.09	114	109	70.0-152			4.07	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4132488-1 10/13/24 09:10 • (LCSD) R4132488-2 10/13/24 09:49

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromodichloromethane	3.75	3.92	3.90	105	104	70.0-130			0.512	25
Bromoform	3.75	3.83	3.72	102	99.2	70.0-130			2.91	25
Bromomethane	3.75	3.70	3.67	98.7	97.9	70.0-130			0.814	25
1,3-Butadiene	3.75	3.75	3.78	100	101	70.0-130			0.797	25
Carbon disulfide	7.50	8.04	7.92	107	106	70.0-130			1.50	25
Carbon tetrachloride	3.75	4.01	3.97	107	106	70.0-130			1.00	25
Chlorobenzene	3.75	3.90	3.91	104	104	70.0-130			0.256	25
Chloroethane	3.75	3.11	3.17	82.9	84.5	70.0-130			1.91	25
Chloroform	3.75	3.94	3.90	105	104	70.0-130			1.02	25
Chloromethane	3.75	3.79	3.87	101	103	70.0-130			2.09	25
2-Chlorotoluene	3.75	4.02	3.95	107	105	70.0-130			1.76	25
Cyclohexane	3.75	4.01	3.95	107	105	70.0-130			1.51	25
Dibromochloromethane	3.75	3.90	3.88	104	103	70.0-130			0.514	25
1,2-Dibromoethane	3.75	3.92	3.88	105	103	70.0-130			1.03	25
1,2-Dichlorobenzene	3.75	3.98	3.86	106	103	70.0-130			3.06	25
1,3-Dichlorobenzene	3.75	4.06	3.87	108	103	70.0-130			4.79	25
1,4-Dichlorobenzene	3.75	4.09	3.94	109	105	70.0-130			3.74	25
1,2-Dichloroethane	3.75	4.00	3.97	107	106	70.0-130			0.753	25
1,1-Dichloroethane	3.75	4.01	3.99	107	106	70.0-130			0.500	25
1,1-Dichloroethene	3.75	3.97	3.89	106	104	70.0-130			2.04	25
cis-1,2-Dichloroethene	3.75	4.13	4.13	110	110	70.0-130			0.000	25
trans-1,2-Dichloroethene	3.75	3.96	3.89	106	104	70.0-130			1.78	25
1,2-Dichloropropane	3.75	3.99	3.96	106	106	70.0-130			0.755	25
cis-1,3-Dichloropropene	3.75	3.98	3.92	106	105	70.0-130			1.52	25
trans-1,3-Dichloropropene	3.75	3.92	3.93	105	105	70.0-130			0.255	25
1,4-Dioxane	3.75	3.82	3.80	102	101	70.0-140			0.525	25
Ethanol	3.75	3.57	3.55	95.2	94.7	55.0-148			0.562	25
Ethylbenzene	3.75	4.00	3.87	107	103	70.0-130			3.30	25
4-Ethyltoluene	3.75	4.03	3.92	107	105	70.0-130			2.77	25
Trichlorofluoromethane	3.75	4.00	3.91	107	104	70.0-130			2.28	25
Dichlorodifluoromethane	3.75	3.98	3.95	106	105	64.0-139			0.757	25
1,1,2-Trichlorotrifluoroethane	3.75	3.99	3.87	106	103	70.0-130			3.05	25
1,2-Dichlorotetrafluoroethane	3.75	3.99	3.94	106	105	70.0-130			1.26	25
Heptane	3.75	4.05	4.09	108	109	70.0-130			0.983	25
Hexachloro-1,3-butadiene	3.75	3.86	3.68	103	98.1	70.0-151			4.77	25
n-Hexane	3.75	3.99	3.97	106	106	70.0-130			0.503	25
Isopropylbenzene	3.75	4.02	3.96	107	106	70.0-130			1.50	25
Methylene Chloride	3.75	3.91	3.87	104	103	70.0-130			1.03	25
Methyl Butyl Ketone	3.75	4.19	4.13	112	110	70.0-149			1.44	25
2-Butanone (MEK)	3.75	4.01	3.96	107	106	70.0-130			1.25	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4132488-1 10/13/24 09:10 • (LCSD) R4132488-2 10/13/24 09:49

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Methyl-2-pentanone (MIBK)	3.75	4.10	4.10	109	109	70.0-139			0.000	25
Methyl methacrylate	3.75	3.94	3.85	105	103	70.0-130			2.31	25
MTBE	3.75	3.95	3.90	105	104	70.0-130			1.27	25
Naphthalene	3.75	3.98	4.03	106	107	70.0-159			1.25	25
2-Propanol	3.75	3.98	3.89	106	104	70.0-139			2.29	25
Propene	3.75	4.00	4.06	107	108	64.0-144			1.49	25
Styrene	7.50	8.44	8.27	113	110	70.0-130			2.03	25
1,1,2,2-Tetrachloroethane	3.75	3.95	3.88	105	103	70.0-130			1.79	25
Tetrachloroethylene	3.75	3.82	3.78	102	101	70.0-130			1.05	25
Tetrahydrofuran	3.75	4.04	3.96	108	106	70.0-137			2.00	25
Toluene	3.75	3.98	3.90	106	104	70.0-130			2.03	25
1,2,4-Trichlorobenzene	3.75	3.96	3.79	106	101	70.0-160			4.39	25
1,1,1-Trichloroethane	3.75	3.98	3.94	106	105	70.0-130			1.01	25
1,1,2-Trichloroethane	3.75	3.88	3.85	103	103	70.0-130			0.776	25
Trichloroethylene	3.75	3.92	3.86	105	103	70.0-130			1.54	25
1,2,4-Trimethylbenzene	3.75	4.05	3.87	108	103	70.0-130			4.55	25
1,3,5-Trimethylbenzene	3.75	4.05	3.96	108	106	70.0-130			2.25	25
2,2,4-Trimethylpentane	3.75	4.11	4.07	110	109	70.0-130			0.978	25
Vinyl chloride	3.75	3.81	3.83	102	102	70.0-130			0.524	25
Vinyl Bromide	3.75	4.01	3.90	107	104	70.0-130			2.78	25
Vinyl acetate	3.75	3.97	3.93	106	105	70.0-130			1.01	25
Xylenes, Total	11.3	12.3	11.9	109	105	70.0-130			3.31	25
m&p-Xylene	7.50	8.24	8.00	110	107	70.0-130			2.96	25
o-Xylene	3.75	4.04	3.95	108	105	70.0-130			2.25	25
(S) 1,4-Bromofluorobenzene				*97.4*	*97.5*	*60.0-140*				

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

T117

Pace® Location Requested (City/State):

Air CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Sample Receipt Checklist
COC Seal Present/Intact: ✓Y__N Airs
COC Signed/Accurate: ✓Y__N Size: ___1L ✓6L ___1.4L
Bottles arrive intact: ✓Y__N Tage Color: G__W✓P__B__
Correct bottles used: ✓Y__N Tubing ___ Shunt ___
Unused: 2 T/P#: _____

Company Name: KEMRON Environmental - WV
Contact/Report To: Mr. Abdo Chaber
Street Address: 108 Craddock Way, Suite 5, Poca, WV 25159
Phone #: 304-755-0999
E-Mail: achaber@kemron.com;tfondren@kemron.com
Cc E-Mail:
City, State Zip:
Customer Project #: WV 1966
Invoice to:
Project Name: CAMC Greenbrier Valley Medical Center
Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): KEMRONWVA-CAMC
Purchase Order # (if applicable):
Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [✓] ET
State origin of sample(s): WV

Data Deliverables:
[ ] Level II [ ] Level III [✓] Level IV
[ ] EQUIS
[ ] Other_____

Regulatory Program (CAA, RCRA, etc.) as applicable:
Rush (Pre-approval required): 2 Day 3 day 5 day Other_____
Date Results Requested:
Permit # as applicable:
Units for Reporting: ug/m³ PPBV mg/m³ PPMV

Field Information

Analyses Requested

TM 8/14/24

Lab Use Only
Proj. Manager: 364 - T. Alan Harvill
AcctNum / Client ID: KEMRONWVA
Table #:
Profile / Template: T258181
Prelog / Bottle Ord. ID: P1094441

* Matrix Codes (Insert in Matrix box below): Ambient (A), Indoor (I), Soil Vapor (SV), Other (O)

Customer Sample ID	Matrix *	Summa Canister ID	Flow Controller ID	Begin Collection Date	Begin Collection Time	End Collection Date	End Collection Time	Canister Pressure / Vacuum: Start Pressure / Vacuum (in Hg)	Canister Pressure / Vacuum: End Pressure / Vacuum (in Hg)	PUF / FILTER: Duration (minutes)	PUF / FILTER: Flow Rate m³/min or L/min	PUF / FILTER: Total Volume Sampled m³ or L	TO-15 Summa				Sample Comment
GVMC-VMP-IA-01-1043	IA	9916	022592	10-9-24	0855	10-9-24	1625	-28	-5				X				L1787977-01
GVMC-VMP-02-01-1044	SV	13850	029267		0920		1510	-26	-5				X				02
GVMC-VMP-03-01-1045	SV	15146	024813		1025		1715	-28	-2				X				03
GVMC-VMP-03-02-1046	SV	10910	024096		1025		1715	-27	-5				X				04
GVMC-VMP-01-01-1047	SV	28421	024120		1035		1600	-24	-4.5				X				05
GVMC-[redacted]FB-01-1048	O	23362	023838	↓	1730	↓	1730	-29	-4.5				X				06
													X				
													X				

Customer Remarks / Special Conditions / Possible Hazards:

Collected By: Chris Hedrick
Printed Name:
Signature:

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Kemron	10-10-24/0700			
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: In- Person Courier FedEx UPS Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time: 10/11/24 0900	Page: ____ of: ____

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

APPENDIX C

MONITORING WELL CONSTRUCTION LOGS

State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0064-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0064-24
Grid Location:
a. Latitude: 39 46 26 .0
b. Longitude: 80 28 14 .0
c. Method Used: GPS

Company/Project Well No.:
MW-3

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

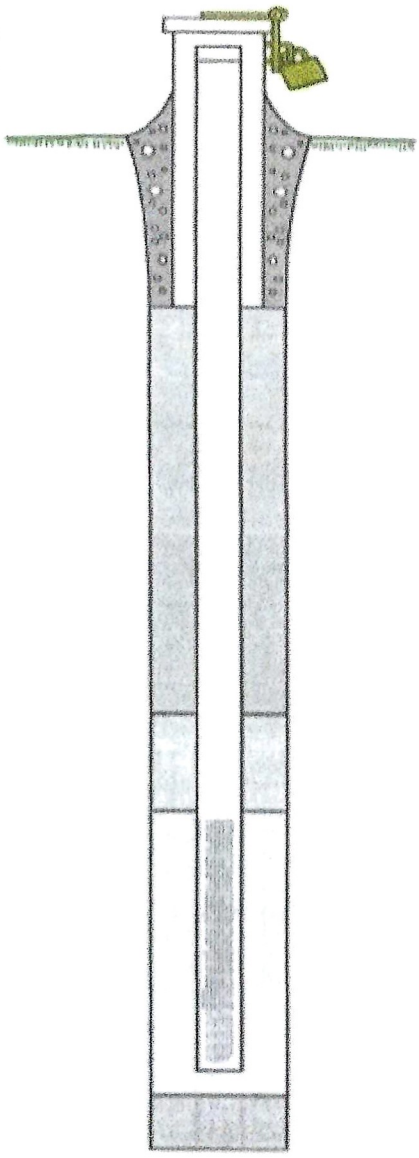
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/31/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 90 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 10 ft.
15.Depth to Top of Screen: 12 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 22 ft.
19.Bottom of Filter Pack: 22 ft.
20.Bottom of Borehole: 22 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0063-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0063-24
Grid Location:
a. Latitude: 39 26 27 .0
b. Longitude: 80 28 14 .0
c. Method Used: Computer Mapped/Generated Coordinates

Company/Project Well No.:
MW-2

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

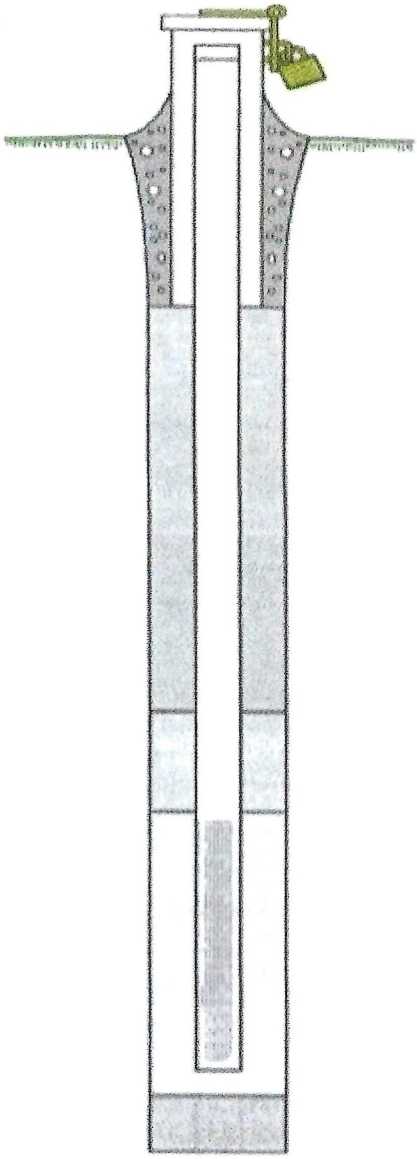
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/24/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 90 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 5 ft.
15.Depth to Top of Screen: 7 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 5 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 12 ft.
19.Bottom of Filter Pack: 12 ft.
20.Bottom of Borehole: 12 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0062-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0062-24
Grid Location:
a. Latitude: 37 46 28 .0
b. Longitude: 80 28 14 .0
c. Method Used: GPS

Company/Project Well No.:
MW-1

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 2386 White Hall Boulevard
Line 2: 1320 Maplewood Avenue
City: White Hall
State: WV
Zip: 24970-
Phone: 276-701-3093

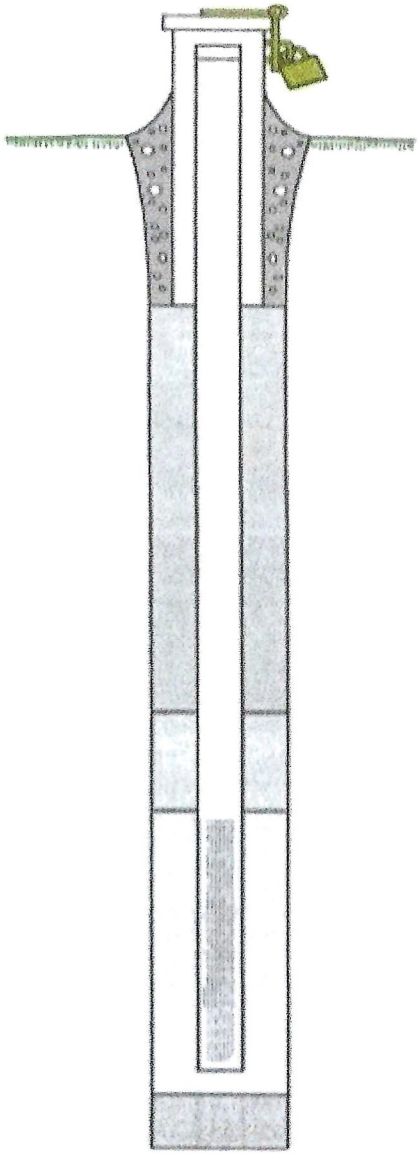
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/24/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 160 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 10 ft.
15.Depth to Top of Screen: 12 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 5 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 17 ft.
19.Bottom of Filter Pack: 17 ft.
20.Bottom of Borehole: 17 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0066-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0066-24
Grid Location:
a. Latitude: 37 46 25 .0
b. Longitude: 80 28 14 .0
c. Method Used: GPS

Company/Project Well No.:
MW-5

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

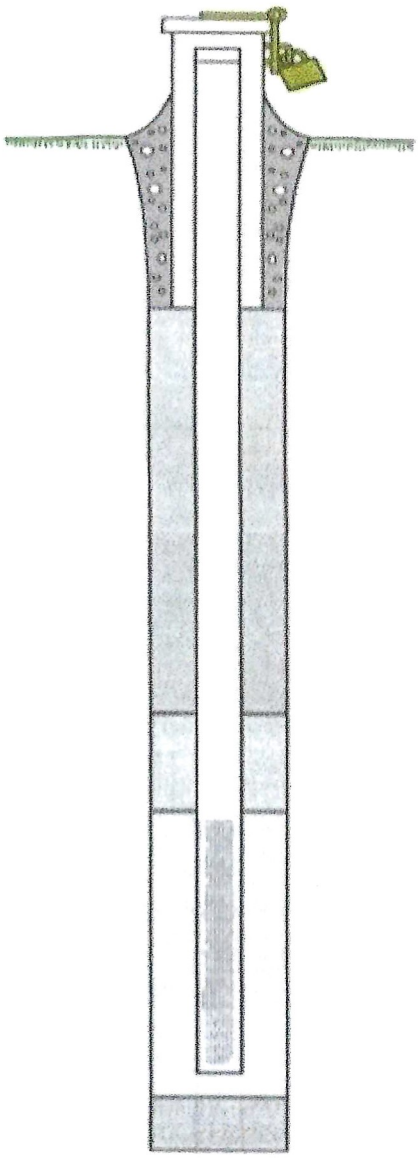
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/31/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock:	YES
2.Protective Cover:	Flush Mount
3.Monitoring Well Reference Point:	0 ft.
4.Borehole Diameter:	6.75 inches.
5.Ground Surface Seal: a.Material: concrete b.Installation Procedure: poured	
6.Surface Seal Bottom/Annular Space Top:	1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches. c.Material: PVC d.Installation Procedure: hand set	
8.Annular Space Seal: a.Material: bentonite chip - b.Installation Procedure: pour	
9.Well Development Procedure: surge/purge -	
10.Drilling Method Used: hollow stem auger -	
11.Annular Space Seal Bottom/Filter Seal Top:	1 ft.
12.Drilling Fluid Used: No Source:	
13.Filter Pack Seal: a.Material: bentonite chip b.Installation Procedure: Gravity Fed c.Volume Added: 90 pounds	
14.Bottom of Bentonite Seal/Filter Pack Top:	12 ft.
15.Depth to Top of Screen:	14 ft.
16.Screen: a.Material: PVC b.Installation Procedure: hand set c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.	
17.Filter Pack: a.Material: medium sand b.Installation Procedure: poured	
18.Well Depth:	24 ft.
19.Bottom of Filter Pack:	24 ft.
20.Bottom of Borehole:	24 ft.
21.Backfill Material (below filter pack): none	
22.Decontamination Procedures: new material	
23.Special Circumstances and Exceptions: No Variance Number: none	
24.WV Contractor License No. WV041258	



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0065-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0065-24
Grid Location:
a. Latitude: 37 46 26 .0
b. Longitude: 80 28 13 .0
c. Method Used: GPS

Company/Project Well No.:
MW-4

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

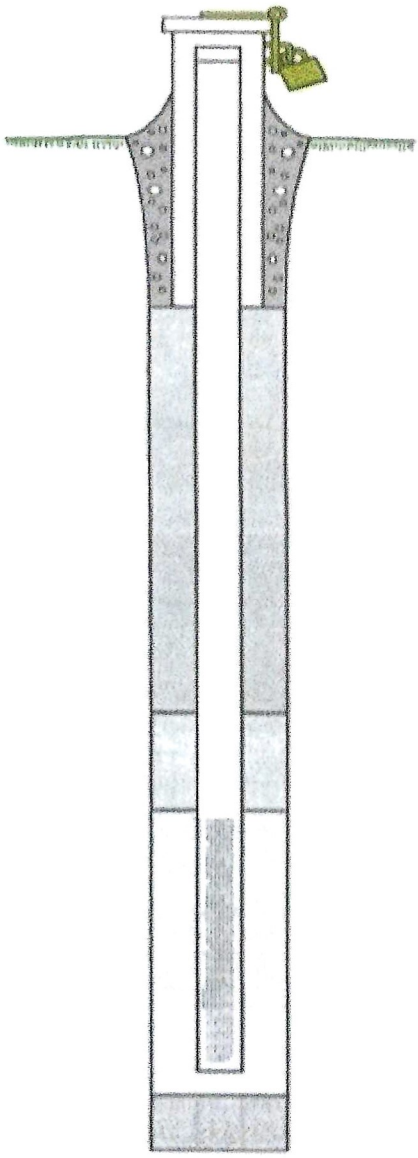
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/31/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 90 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 10 ft.
15.Depth to Top of Screen: 13 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 23 ft.
19.Bottom of Filter Pack: 23 ft.
20.Bottom of Borehole: 23 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0066-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0066-24
Grid Location:
a. Latitude: 37 46 25 .0
b. Longitude: 80 28 14 .0
c. Method Used: GPS

Company/Project Well No.:
MW-5

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

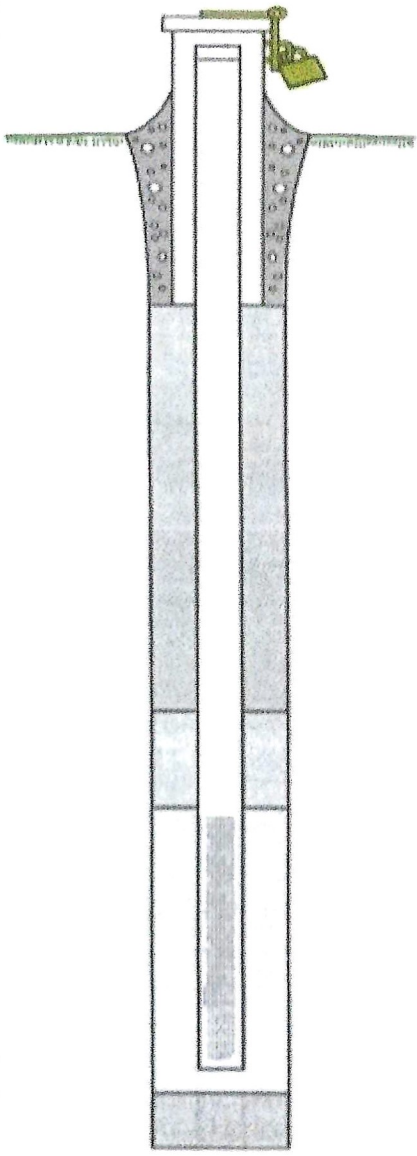
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/31/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 90 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 12 ft.
15.Depth to Top of Screen: 14 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 24 ft.
19.Bottom of Filter Pack: 24 ft.
20.Bottom of Borehole: 24 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0067-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0067-24
Grid Location:
a. Latitude: 37 46 26 .0
b. Longitude: 80 28 18 .0
c. Method Used: GPS

Company/Project Well No.:
MW-7

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

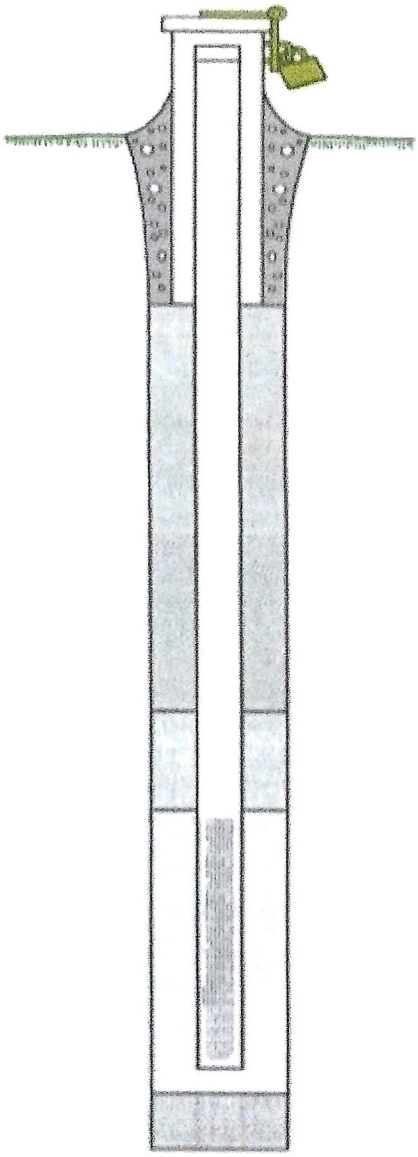
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/31/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 100 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 10 ft.
15.Depth to Top of Screen: 13 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 23 ft.
19.Bottom of Filter Pack: 23 ft.
20.Bottom of Borehole: 23 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0068-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0068-24
Grid Location:
a. Latitude: 37 46 26 .0
b. Longitude: 80 28 11 .0
c. Method Used: GPS

Company/Project Well No.:
MW-8

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

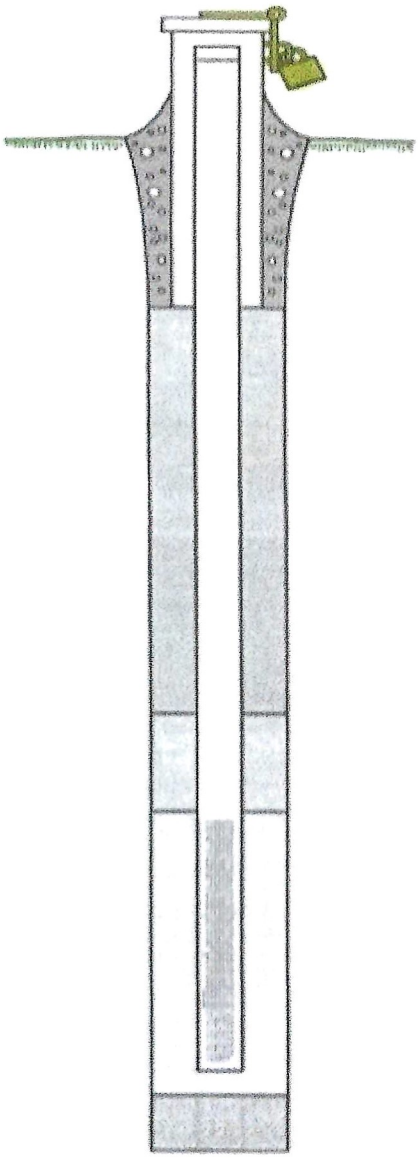
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
08/01/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 100 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 9 ft.
15.Depth to Top of Screen: 11 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 21 ft.
19.Bottom of Filter Pack: 21 ft.
20.Bottom of Borehole: 21 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0069-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0069-24
Grid Location:
a. Latitude: 37 46 24 .0
b. Longitude: 80 28 12 .0
c. Method Used: GPS

Company/Project Well No.:
MW-9

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

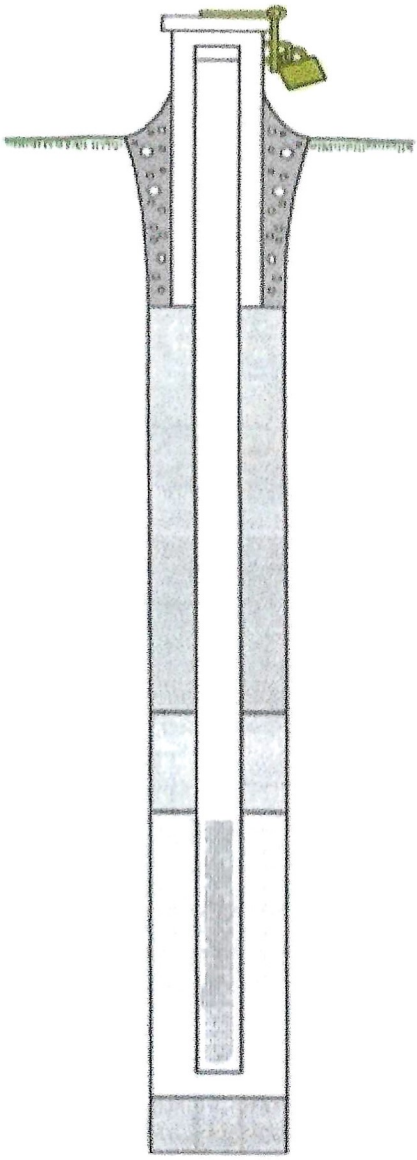
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
07/31/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 100 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 11 ft.
15.Depth to Top of Screen: 13 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 23 ft.
19.Bottom of Filter Pack: 23 ft.
20.Bottom of Borehole: 23 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0070-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0070-24
Grid Location:
a. Latitude: 37 46 25 .0
b. Longitude: 80 28 12 .0
c. Method Used: GPS

Company/Project Well No.:
MW-10

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

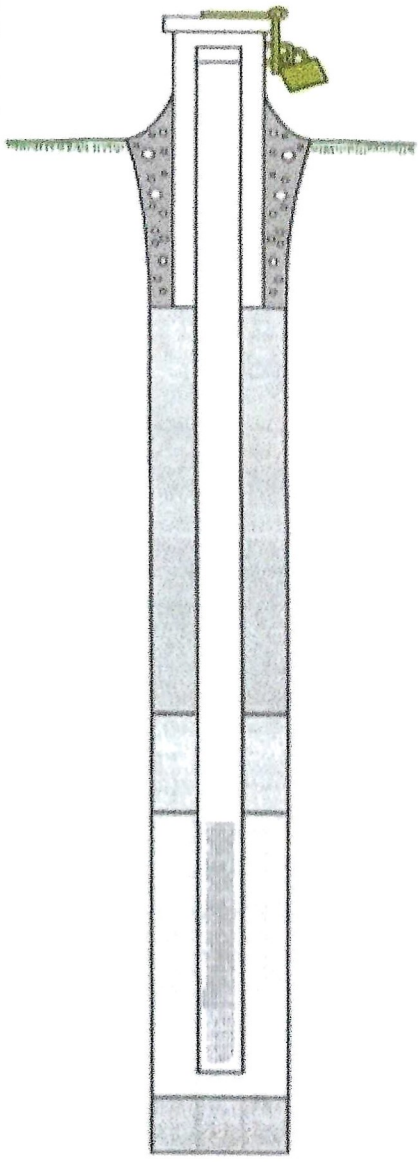
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
08/01/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock: YES
2.Protective Cover: Flush Mount
3.Monitoring Well Reference Point: 0 ft.
4.Borehole Diameter: 6.75 inches.
5.Ground Surface Seal:
a.Material: concrete
b.Installation Procedure: poured
6.Surface Seal Bottom/Annular Space Top: 1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches.
c.Material: PVC
d.Installation Procedure: hand set
8.Annular Space Seal:
a.Material: bentonite chip -
b.Installation Procedure: pour
9.Well Development Procedure: surge/purge -
10.Drilling Method Used: hollow stem auger -
11.Annular Space Seal Bottom/Filter Seal Top: 1 ft.
12.Drilling Fluid Used: No Source:
13.Filter Pack Seal:
a.Material: bentonite chip
b.Installation Procedure: Gravity Fed
c.Volume Added: 100 pounds
14.Bottom of Bentonite Seal/Filter Pack Top: 10 ft.
15.Depth to Top of Screen: 12 ft.
16.Screen:
a.Material: PVC
b.Installation Procedure: hand set
c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.
17.Filter Pack:
a.Material: medium sand
b.Installation Procedure: poured
18.Well Depth: 22 ft.
19.Bottom of Filter Pack: 22 ft.
20.Bottom of Borehole: 22 ft.
21.Backfill Material (below filter pack): none
22.Decontamination Procedures: new material
23.Special Circumstances and Exceptions: No Variance Number: none
24.WV Contractor License No. WV041258



State of West Virginia
Department of Environmental Protection

Monitoring Well Construction

Well Number: WV00433-0071-24

Site Name/Physical Address:
Site: CAMC Greenbrier Valley Medical Center
Line 1: 1320 Maplewood Ave
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
County: Greenbrier

Well Registration No. WV00433-0071-24
Grid Location:
a. Latitude: 37 46 25 .0
b. Longitude: 80 28 13 .0
c. Method Used: GPS

Company/Project Well No.:
MW-11

Purpose of Monitoring Well:
Site Assessment

Well Owner (Name, Firm, Address):
Owner: CAMC Greenbrier Medical Center
Line 1: 1320 Maplewood Avenue
Line 2:
City: Ronceverte
State: WV
Zip: 24970-
Phone: 276-701-3093

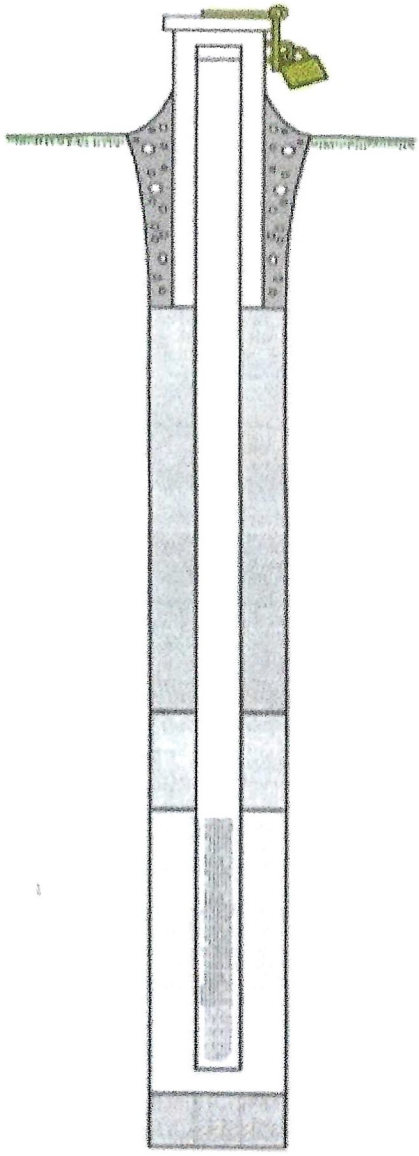
Installed By (Name, Firm, Address):
Installer: EnviroCheck of Va, Inc
Line 1: 375 mountain lane
Line 2:
City: Tazewell
State: VA
Zip: 24651-
Phone: 276-701-3093

Date Well Installed:
08/01/2024

Driller's WV Cert No.
WV00433

Section B: (all number fields must be in decimal format)

1.Cap and Lock:	YES
2.Protective Cover:	Flush Mount
3.Monitoring Well Reference Point:	0 ft.
4.Borehole Diameter:	6.75 inches.
5.Ground Surface Seal: a.Material: concrete b.Installation Procedure: poured	
6.Surface Seal Bottom/Annular Space Top:	1 ft.
7.Well Riser: a.OD Well Riser: 2.5 inches. b.ID Well Riser: 2 inches. c.Material: PVC d.Installation Procedure: hand set	
8.Annular Space Seal: a.Material: bentonite chip - b.Installation Procedure: pour	
9.Well Development Procedure: surge/purge -	
10.Drilling Method Used: hollow stem auger -	
11.Annular Space Seal Bottom/Filter Seal Top:	1 ft.
12.Drilling Fluid Used: No Source:	
13.Filter Pack Seal: a.Material: bentonite chip b.Installation Procedure: Gravity Fed c.Volume Added: 100 pounds	
14.Bottom of Bentonite Seal/Filter Pack Top:	8 ft.
15.Depth to Top of Screen:	10 ft.
16.Screen: a.Material: PVC b.Installation Procedure: hand set c.Slot Size: 0.01 inches. d.Screen Length: 10 ft.	
17.Filter Pack: a.Material: medium sand b.Installation Procedure: poured	
18.Well Depth:	20 ft.
19.Bottom of Filter Pack:	20 ft.
20.Bottom of Borehole:	20 ft.
21.Backfill Material (below filter pack): none	
22.Decontamination Procedures: new material	
23.Special Circumstances and Exceptions: No Variance Number: none	
24.WV Contractor License No. WV041258	



APPENDIX D

CHECKLIST TO DETERMINE THE APPLICABLE REMEDIATION STANDARDS, PART 1: ECOLOGICAL STANDARDS

Checklist to Determine Applicable Remediation Standards
Part 1: Ecological Standards

STEP 1: Determine Whether a De Minimis Ecological Screening Evaluation is Appropriate for the Site		
1.1	Are there any undeveloped terrestrial areas on or adjacent to the site (e.g., areas that are not under intensive landscape or agricultural control)?	☐ Yes ☑ No
1.2	Are there any potential wetlands (including vernal pools) on or adjacent to the site?	☐ Yes ☑ No
1.3	Are there any surface water bodies (i.e., lotic or lentic habitat) on or adjacent to the site?	☐ Yes ☑ No
1.4	Are there any terrestrial, wetland, or aquatic habitats off-site, but situated downstream, downwind, or downgradient from the site that may be affected by site-related stressors?	☐ Yes ☑ No
1.5	Are there any projected land uses for the site that would result in undeveloped areas, wetland habitat, lotic habitat, or lentic habitat?	☐ Yes ☑ No
If "Yes" to any: A complete exposure pathway may exist for potential ecological receptors of concern. Proceed to Step 2. *If "No" to all: No further ecological evaluation is required. File this completed form with the Site Assessment Report.*		

STEP 2: Identify any Readily Apparent Harm or Exceedances of Surface Water Quality Standards		
2.1	Have there been any incidents where harm to wildlife attributable to contaminants originating from the site has been readily apparent?	☐ Yes ☐ No
	If "Yes": Proceed to Question 2.2. *If "No": Skip to Question 2.3.*	
2.2	Has the cause of such harm been eliminated?	☐ Yes ☐ No
	If "Yes": Briefly describe the action taken and complete the rest of the checklist. *If "No": Proceed directly to the remedy evaluation or, alternately, proceed with a determination of a Uniform or Site-Specific Ecological Standard, as described in the VRP Guidance Manual, prior to implementation of the remedy. File this form with the Site Assessment Report.*	
	Action Taken:	
2.3	Is the site contributing to exceedances of surface water quality standards established for the protection of aquatic life (see W. Va. Legislative Rule 47CSR2)?	☐ Yes ☐ No ☐ Unknown
	If "Yes": Proceed directly to the remedy evaluation or, alternately, proceed with a determination of a Uniform or Site-Specific Ecological Standard, as described in the VRP Guidance Manual, prior to implementation of the remedy. *If "No" or "Unknown": Proceed to Step 3.*	

STEP 3: Identify Contamination Associated with Ecological Habitats		
3.1	Have the environmental media (e.g., soil, surface water, sediment, biota) associated with the ecological habitat(s) identified in Questions 1.2 through 1.5 been sampled and analyzed with regard to potential site-related contaminants of concern?	☐ Yes ☐ No
	If "Yes": Proceed to Question 3.2. *If "No": Skip to Step 4.*	
	Comments (e.g., some media sampled but others not, limitations of data):	
3.2	Have any site-related contaminants been detected above natural background concentrations in environmental media collected from terrestrial habitat?	☐ Yes ☐ No ☐ Unknown ☐ n/a
	Comments (e.g., type of contaminants):	
3.3	Have any site-related contaminants been detected above natural background concentrations in environmental media collected from wetland or aquatic habitats (lotic or lentic habitats)?	☐ Yes ☐ No ☐ Unknown ☐ n/a
	If "Yes" or "Unknown" to 3.2 and/or 3.3: Proceed to Question 3.4. *If "No" or "n/a" to both 3.2 and 3.3: Skip to Question 3.6.*	
	Comments (e.g., wetland or aquatic, lotic or lentic, limitations of data):	
3.4	Are site-related contaminants presenting an ecological risk over and above "local" condition?	☐ Yes ☐ No ☐ Unknown
	If "Yes": Skip to Step 4. *If "No" or "Unknown": Proceed to Question 3.5.*	
	Comments (e.g., evidence of local condition and/or ecological risk):	
3.5	Have site-related releases of contaminants been stopped?	☐ Yes ☐ No
	If "Yes": Proceed to Question 3.6. *If "No": Skip to Part 4.*	
	Comments (e.g., how were releases stopped):	
3.6	Are site-related contaminants currently or likely to be migrating to aquatic habitat (e.g., lotic, lentic, or wetland habitat)?	☐ Yes ☐ No ☐ Unknown ☐ n/a
	If "Yes" or "Unknown": Proceed to Step 4. *If "No" or "n/a": No further ecological evaluation is required. File this completed form with the Site Assessment Report.*	

STEP 4: Characterize the Potential Ecological Habitat		
4.1	Describe the general land use in the immediate vicinity of the site.	
	☐ Commercial/Industrial ☐ Residential ☐ Rural/Agricultural ☐ Rural/Undeveloped ☐ Urban ☐ Other:	
4.2	For all affected areas that fulfill the descriptions in Step 1, answer the following and attach a site map identifying the potential ecological habitat.	
	4.2.1 Outline characteristics for potential terrestrial habitats.	
	Location:	
	Contiguous Area:	
	General Topography:	
	Primary Soil Type:	
	Predominant Vegetation Species:	
	4.2.2 Outline characteristics for potential wetland habitats (e.g., vernal pools, marshes, etc.).	
	Location:	
	Contiguous Area:	
	General Topography:	
	Primary Soil Type:	
	Predominant Vegetation Species:	
	4.2.3 Outline characteristics for potential lotic habitats (flowing water).	
	Location:	
	Typical Width and Depth:	
	Typical Flow Rate:	
	Typical Gradient (m/km):	
	Type of River/Creek Bottom:	
	Types of Aquatic Vegetation Present:	
	Topography of the Riparian Zone:	
	Predominant Riparian Vegetation:	
	Human Utilization of Lotic Habitat:	
	Local Conditions:	
	4.2.4 Outline characteristics for potential lentic habitats (standing water).	
	Location:	
	Is the lentic habitat…?	☐ Natural ☐ Man-made
	Area of Lentic Habitat	
	Typical and Maximum Depth:	
	Description of Sources & Drainage:	
	Predominant Aquatic Vegetation:	
	Topography of Littoral Zone:	
	Predominant Littoral Zone Vegetation:	
	Human Utilization of Lentic Habitat:	
	Local Conditions:	

4.3	Indicate if the site contains or is adjacent to any of the following types of valued terrestrial habitats:	
	☐ Climax Community (e.g., old growth forest) ☐ Federal Wilderness Area (designated or administratively proposed) ☐ National or State Forest ☐ National or State Park ☐ National or State Wildlife Refuge ☐ National Preserve Area ☐ State designated natural area ☐ Federal land designated for protection of natural ecosystems ☐ Federal or State land designated for wildlife or game management ☐ Area utilized for breeding by large or dense aggregations of wildlife ☐ Feeding, breeding, nesting, cover, or wintering habitat for migratory birds ☐ Area important to the maintenance of unique biotic communities (e.g., high proportion of endemic species) *Threatened or Endangered Species* ☐ Critical habitat for federally designated threatened or endangered species ☐ Habitat known to be used or potentially used by Federal or State designated threatened or endangered species, or species in the State Wildlife Action Plan	
4.4	Indicate if the site contains or is adjacent to any of the following types of valued wetlands:	
	☐ Area important to the maintenance of unique biotic communities (e.g., high proportion of endemic species) ☐ Area utilized for breeding by large or dense aggregations of wildlife ☐ Spawning or nursery areas critical to the maintenance of fish/shellfish species ☐ Feeding, breeding, nesting, cover, or wintering habitat for migratory waterfowl or other aquatic birds ☐ Area important to the maintenance of unique biotic communities (e.g., high proportion of endemic species) *Threatened or Endangered Species* ☐ Critical habitat for federally designated threatened or endangered species ☐ Habitat known to be used or potentially used by Federal or State designated threatened or endangered species, or species in the State Wildlife Action Plan	
4.5	Indicate if the site is within or adjacent to any of the following valued aquatic habitats:	
	☐ Federal or State Fish Hatchery ☐ Federal or State designated Scenic or Wild River ☐ National River Reach designated as recreational ☐ Critical areas identified under the Clean Lakes Program ☐ Trout-stocked streams or wild trout streams with verified trout production ☐ Spawning or nursery areas critical to the maintenance of fish/shellfish species ☐ Feeding, breeding, nesting, cover, or wintering habitat for migratory waterfowl or other aquatic birds ☐ Area important to the maintenance of unique biotic communities (e.g., high proportion of endemic species) *Threatened or Endangered Species* ☐ Critical habitat for federally designated threatened or endangered species ☐ Habitat known to be used or potentially used by Federal or State designated threatened or endangered species, or species in the State Wildlife Action Plan	
4.6	Have valued terrestrial, wetland, or aquatic habitats been identified within or adjacent to this site? *(A list of agencies that can provide information that should assist in determining whether the site is located within or adjacent to the areas listed in 4.3, 4.4, and 4.5 is provided at the end of this checklist.)*	☐ Yes ☐ No

STEP 5: Identify Any Potential Ecological Receptors of Concern		
5.1	Threatened and Endangered Species Were any habitats within or adjacent to the site identified as critical habitat for, or areas known to be used by, federally threatened or endangered species listed in 50CFS17.95 or 17.96?	☐ Yes ☐ No

If "Yes", indicate which species*:

Amphibians
- ☐ Cheat Mountain salamander (*Plethodon nettingi*)

Clams & Mussels
- ☐ Clubshell (*Pleurobema clava*)
- ☐ Fanshell (*Cyprogenia stegaria*)
- ☐ James spinymussel (*Pleurobema collina*)
- ☐ Longsolid (*Fusconaia subrotunda*)
- ☐ Northern riffleshell (*Epioblasma torulosa rangiana*)
- ☐ Pink mucket pearlymussel (*Lampsilis abrupta*)
- ☐ Purple cat's paw pearlymussel (*Epioblasma obliquata obliquata*)
- ☐ Rayed bean (*Villosa fabalis*)
- ☐ Round hickorynut (*Obovaria subrotunda*)
- ☐ Sheepnose (*Plethobasus cyphyus*)
- ☐ Snuffbox (*Epioblasma triquetra*)
- ☐ Spectablecase (*Cumberlandia monodonta*)
- ☐ Tubercled blossom pearlymussel (*Epioblasma torulosa torulosa*)

Fish
- ☐ Candy darter (*Etheostoma osburni*)
- ☐ Diamond darter (*Crystallaria cincotta*)

Flowering Plants
- ☐ Harperella (*Ptilimnium nodosum*)
- ☐ Northeastern bulrush (*Scirpus ancistrochaetus*)
- ☐ Running buffalo cover (*Trifolium stoloniferum*)
- ☐ Shale barren rock cress (*Arabis perstellata*)
- ☐ Small whorled pogonia (*Isotria medeoloides*)
- ☐ Virginia spiraea (*Spiraea virginiana*)

Mammals
- ☐ Gray bat (*Myotis grisescens*)
- ☐ Indiana bat (*Myotis sodalis*)
- ☐ Northern long-eared bat (*Myotis septentrionalis*)
- ☐ Tricolored bat (*Perimyotis subflavus*) – Proposed Species as of 2022
- ☐ Virginia big-eared bat (*Corynorhinus towsendii virginianus*)
- ☐ Virginia northern flying squirrel (*Glaucomys sabrinus fuscus*)

Snails & Invertebrates
- ☐ Big Sandy crayfish (*Cambarus callainus*)
- ☐ Flat-spired three-toothed land snail (*Triodopsis platysayoides*)
- ☐ Guyandotte River crayfish (*Cambarus veteranus*)
- ☐ Madison cave isopod (*Antrolana lira*)
- ☐ Monarch butterfly (*Danaus plexippus*) – Candidate Species as of 2020
- ☐ Rusty-patched bumble bee (*Bombus affinis*)

5.2	Local Populations Providing Important Natural or Economic Resources, Functions, and Values Were any valued terrestrial, wetland, or aquatic habitats listed in 4.3, 4.4, or 4.5 identified within or adjacent to the site?	☐ Yes ☐ No
If "Yes" to 5.1 and/or 5.2 and/or surface water bodies are not in compliance with applicable water quality standards: The site does not pass the De Minimis ecological risk screening, since a complete exposure pathway may exist for potential ecological receptors of concern. Further evaluation of the site is required using either the Uniform Ecological Standard or the Site-Specific Ecological Standard. *If "No" to 5.1 and 5.2 and surface water bodies are in compliance with applicable water quality standards: No further ecological evaluation is required. File this completed form with the Site Assessment Report.*		

*The list contains those federally designated threatened and endangered species that are indigenous to WV. WVDNR, Wildlife Resources Section should be consulted to ensure the list is correct. WV has not established a list of state designated threatened or endangered species; however, the WVDNR has developed a "Species of Greatest Conservation Need" list in the State Wildlife Action Plan. Species listed in the State Wildlife Action Plan should also be considered in any Ecological Risk Assessment.

Federal and State Agencies for Ecological Review Consultation

U.S. Department of Agricultural – Natural Resources and Conservation Service
1550 Earl L. Core Road, Suite 200
Morgantown, WV 26505
304-284-7540
https://www.nrcs.usda.gov/wps/portal/nrcs/site/wv/home

U.S. Fish and Wildlife Service – WV Field Office
Ecological Services
6263 Appalachian Highway
Davis, WV 26260
304-866-3858
https://www.fws.gov/office/west-virginia-ecological-services

WV Division of Forestry
7 Players Club Drive
Charleston, WV 25311
304-558-2788
https://wvforestry.com/

WV Division of Natural Resources
Building 74
324 Fourth Avenue
South Charleston, WV 25303
304-558-2754
http://www.wvdnr.gov/

WV Division of Natural Resources – Wildlife Resources Section
Building 74
324 Fourth Avenue
South Charleston, WV 25303
304-558-2771
http://www.wvdnr.gov/