



September 03, 2024

Carl King
KANAWHA FALLS PSD
PO BOX 448
Gauley Bridge, WV 25085

RE: Project: WV3301037
Pace Project No.: 30713445

Dear Carl King:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 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

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

Sincerely,

Beth Johnson
beth.johnson@pacelabs.com
(800)999-0105
Project Manager

Enclosures

cc: Mr. Joey Goodnite, Kanawha Falls PSD



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
225 Industrial Park RD
Beaver, WV 25813
(800)999-0105

CERTIFICATIONS

Project: WV3301037
Pace Project No.: 30713445

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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SAMPLE SUMMARY

Project: WV3301037

Pace Project No.: 30713445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30713445001	LC 002	Drinking Water	08/26/24 00:00	08/29/24 10:44
30713445002	LC 003	Drinking Water	08/29/24 00:00	08/29/24 10:44
30713445003	LC 004	Drinking Water	08/26/24 00:00	08/29/24 10:44
30713445004	LC 005	Drinking Water	08/26/24 00:00	08/29/24 10:44
30713445005	LC 006	Drinking Water	08/26/24 00:00	08/29/24 10:44
30713445006	LC 007	Drinking Water	08/26/24 00:00	08/29/24 10:44
30713445007	LC 008	Drinking Water	08/26/24 00:00	08/29/24 10:44
30713445008	LC 009	Drinking Water	08/28/24 00:00	08/29/24 10:44
30713445009	LC 010	Drinking Water	08/26/24 00:00	08/29/24 10:44
30713445010	LC 011	Drinking Water	08/28/24 00:00	08/29/24 10:44

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SAMPLE ANALYTE COUNT

Project: WV3301037
Pace Project No.: 30713445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30713445001	LC 002	EPA 200.8	WES	2	PASI-BV
30713445002	LC 003	EPA 200.8	WES	2	PASI-BV
30713445003	LC 004	EPA 200.8	WES	2	PASI-BV
30713445004	LC 005	EPA 200.8	WES	2	PASI-BV
30713445005	LC 006	EPA 200.8	WES	2	PASI-BV
30713445006	LC 007	EPA 200.8	WES	2	PASI-BV
30713445007	LC 008	EPA 200.8	WES	2	PASI-BV
30713445008	LC 009	EPA 200.8	WES	2	PASI-BV
30713445009	LC 010	EPA 200.8	WES	2	PASI-BV
30713445010	LC 011	EPA 200.8	WES	2	PASI-BV

PASI-BV = Pace Analytical Services - Beaver

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ANALYTICAL RESULTS

Project: WV3301037
Pace Project No.: 30713445

Sample: LC 002		Lab ID: 30713445001		Collected: 08/26/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	8.6	ug/L	2.5	0.32		1		09/03/24 12:04	7440-50-8	
Lead	0.12J	ug/L	0.50	0.042		1		09/03/24 12:04	7439-92-1	

Sample: LC 003		Lab ID: 30713445002		Collected: 08/29/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	49.0	ug/L	2.5	0.32		1		09/03/24 12:07	7440-50-8	
Lead	0.43J	ug/L	0.50	0.042		1		09/03/24 12:07	7439-92-1	

Sample: LC 004		Lab ID: 30713445003		Collected: 08/26/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	4.9	ug/L	2.5	0.32		1		09/03/24 12:17	7440-50-8	
Lead	ND	ug/L	0.50	0.042		1		09/03/24 12:17	7439-92-1	

Sample: LC 005		Lab ID: 30713445004		Collected: 08/26/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	108	ug/L	2.5	0.32		1		09/03/24 12:20	7440-50-8	
Lead	0.26J	ug/L	0.50	0.042		1		09/03/24 12:20	7439-92-1	

Sample: LC 006		Lab ID: 30713445005		Collected: 08/26/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	119	ug/L	2.5	0.32		1		09/03/24 12:23	7440-50-8	
Lead	0.22J	ug/L	0.50	0.042		1		09/03/24 12:23	7439-92-1	

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ANALYTICAL RESULTS

Project: WV3301037
Pace Project No.: 30713445

Sample: LC 007		Lab ID: 30713445006		Collected: 08/26/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	54.1	ug/L	2.5	0.32		1		09/03/24 12:27	7440-50-8	
Lead	0.93	ug/L	0.50	0.042		1		09/03/24 12:27	7439-92-1	

Sample: LC 008		Lab ID: 30713445007		Collected: 08/26/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	200	ug/L	2.5	0.32		1		09/03/24 12:30	7440-50-8	
Lead	3.9	ug/L	0.50	0.042		1		09/03/24 12:30	7439-92-1	

Sample: LC 009		Lab ID: 30713445008		Collected: 08/28/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	9.2	ug/L	2.5	0.32		1		09/03/24 12:33	7440-50-8	
Lead	0.052J	ug/L	0.50	0.042		1		09/03/24 12:33	7439-92-1	

Sample: LC 010		Lab ID: 30713445009		Collected: 08/26/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	1.3J	ug/L	2.5	0.32		1		09/03/24 12:37	7440-50-8	
Lead	ND	ug/L	0.50	0.042		1		09/03/24 12:37	7439-92-1	

Sample: LC 011		Lab ID: 30713445010		Collected: 08/28/24 00:00		Received: 08/29/24 10:44		Matrix: Drinking Water		
Parameters	Results	Units	Report Limit	MDL	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
BVR 200.8 MET ICPMS DW		Analytical Method: EPA 200.8 Pace Analytical Services - Beaver								
Copper	42.4	ug/L	2.5	0.32		1		09/03/24 12:40	7440-50-8	
Lead	ND	ug/L	0.50	0.042		1		09/03/24 12:40	7439-92-1	

REPORT OF LABORATORY ANALYSIS

Date: 09/03/2024 03:45 PM

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QUALIFIERS

Project: WV3301037
Pace Project No.: 30713445

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WV3301037
Pace Project No.: 30713445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30713445001	LC 002	EPA 200.8	693310		
30713445002	LC 003	EPA 200.8	693310		
30713445003	LC 004	EPA 200.8	693310		
30713445004	LC 005	EPA 200.8	693310		
30713445005	LC 006	EPA 200.8	693310		
30713445006	LC 007	EPA 200.8	693310		
30713445007	LC 008	EPA 200.8	693310		
30713445008	LC 009	EPA 200.8	693310		
30713445009	LC 010	EPA 200.8	693310		
30713445010	LC 011	EPA 200.8	693310		

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CHAIN-OF-CUSTODY Analytical Request Document

Face Analytical

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Kanawha Falls PSD
 Address: PO Box 448
 Report To: Henry AL-89
 Copy To: _____

Billing Information: Kanawha Falls PSD
PO Box 448
Gauley Bridge WV 25085
 Email To: _____
 Site Collection Info/Address: _____

Customer Project Name/Number: _____
 State: / County/City: _____
 Time Zone Collected: [] PT [] MT [] CT [X] ET
 Phone: 304-779-2600
 Email: _____
 Site/Facility ID #: _____
 Compliance Monitoring?
[] Yes [] No
 Purchase Order #: _____
 Quote #: _____
 Turnaround Date Required: _____
 Rush: [] Same Day [] Next Day
[] 12 Day [] 14 Day [] 15 Day
 (Expedite Charges Apply)
 Sample Disposal:
[] Dispose as appropriate [] Return
[] Archive: _____
[] Hold: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), 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)		Composite End		Res CI	# of Ctns
			Date	Time	Date	Time		
LC 002	DW	Grab	8-26-24					1
LC 003			8-29-24					1
LC 004			8-26-24					1
LC 005			8-26-24					1
LC 006			8-26-24					1
LC 007			8-26-24					1
LC 008			8-26-24					1
LC 009			8-28-24					1
LC 010			8-26-24					1
LC 011			8-28-24					1

Customer Remarks / Special Conditions / Possible Hazards: _____

Type of Ice Used: _____ Wet _____ Blue _____ Dry _____ None _____

Packing Material Used: _____

Radiation sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) 8-29-24

Date/Time: 8-29-24

Received by/Company: (Signature) 10-44

Date/Time: _____

Received by/Company: (Signature)

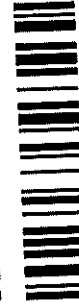
Date/Time: _____

Relinquished by/Company: (Signature)

Date/Time: _____

LAB USE ONLY - Affix Workorder/Login Label Here

WO#: 30713445



30713445

ALL SHADED

Container Preservative Type **
U U U U U U U U

** 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: _____

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: 2 oC
 Cooler 1 Therm Corr. Factor: _____ oC
 Cooler 1 Corrected Temp: _____ oC
 Comments: _____
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): _____
 YES / NO
 Page 9 of 10
 of: _____

WO#: 30713445

PM: BMJ

Due Date: 09/13/24

CLIENT: BV-KANFALLSP

Page 10 of 10

LIMS30 Lab Sample Condition Upon Receipt (West Virgin

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

Type of Ice: Wet Blue None

Cooler Temperature

Observed Temp

1.8 °C

Correction Factor:

0 °C

Final Temp:

1.8 °C

Thermal Preservation Requirement Met Yes ☒ No ☐

pH paper Lot#

Date and Initials of person examining

contents: 8-29-24

	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:	/			5.
-Includes date/time/ID				
Matrix: <u>WT</u>				
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: <u>(Signature)</u>				Date: <u>8-29-24</u>
Tests not preserved:				
Headspace in VOA Vials:			/	16.
Trip Blank Present:			/	17.
Initial when completed: <u>(Signature)</u>				Date: <u>8-29-24</u>

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.