

H&H WATER CONTROLS, INC.

565 Route 88 South
Carmichaels, PA 15320

Telephone: (724) 966-2278 Fax: (724) 966-7924
PA Lab # 30-00287

Report No.	358547
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Report Date: 07/01/2020
H&H Sample No: 20-18167.1-2
P.O. Number:
Collection Date: 06/11/2020
Collection Time: 16:00
Collected By: DN
Received Date: 06/12/2020
Sample Id: Cheat Lake

Ship To Clear
Duane Nichols
330 Dream Catcher Circle
Morgantown, WV 26508

LABORATORY ANALYSIS REPORT

Method No.	Parameter	QL*	MDL*	Results	Units	Date / Time / By
SM22 4500H+B (00)	PH/Lab			R 7.1	S.U.	0612201443et
SM22 2320B (97)	Alkalinity		2	pH4.5 21	mgCaCO3/L	0616201044sc
SM22 2540C (97)	Total Dissolved Solids	25.0	10.0	62.0	mg/L	0616201700ns
SM22 2510B(97)	Specific Conductance @ 25C	5	3	100.1	micromhos/cm	0619201103sc
ASTM D516-02	Sulfate	2	5	31.9	mg/L	0626201548cs
SM22 3111B Fe (99)	Iron	0.075	0.03	0.1	mg/L	0616201651cs
SM22 3111B Mn (99)	Manganese	0.03	0.01	0.06	mg/L	0617201151cs
SM22 3111D Al (99)	Aluminum	0.1	0.03	0.1	mg/L	0617201541cs
SM22 3111B Na (99)	Sodium	5.0	0.1	P 0.6	mg/L	0615201221cs
SM22 4500Cl-B(97)	Chloride		3.0	MD <3.0	mg Cl-/L	0615201233sc
SM22 3500Ca-D(97)	Calcium		3.0	12.0	mg Ca/L	0619201253sc
SM22 3111B Mg (99)	Magnesium	1.5	0.2	2.5	mg/L	0615201449cs

*QL = Quantitation Limit
*MDL = Method Detection Level

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Debra A. Harris
Laboratory Director
H&H WATER CONTROLS, INC.

Revision 5
June 1, 2020

H&H WATER CONTROLS INC.
565 Route 88 South
Carmichaels, PA 15320
724-966-2278

Report Data Qualifiers

- T-Sample did not meet thermal preservation requirement.
- C-Sample did not meet chemical preservation requirement.
- R-Received and analyzed outside hold time.
- A-Sample analyzed outside hold time.
- B-CBOD did not meet depletion criteria.
- B-BOD did not meet depletion criteria.
- P-Indicates an estimated value between Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- D-Indicates Sample Dilution necessary.
- SD-Sample Duplicate (RPD) percent recovery is outside acceptable limit.
- MS-Matrix Spike percent recovery is outside acceptable limit.
- ND-Indicates Analyte was Not Detected (ND)
- M-Indicates over the Maximum Contaminant Level (MCL)
- MD-Indicates less than Method Detection Limit
- J-Indicates less than Quantitation Limit.
- (>)Indicates highest sample dilution was greater than 200.
- E-Estimated
- LA-Indicates Alkalinity result is less than 20.
- MR-Sample does not meet Method Requirements.

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565 Route 88 South
Carmichaels, PA 15320

Telephone: (724) 966-2278 Fax: (724) 966-7924
PA Lab # 30-00287

Report No.	358548
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Report Date: 07/01/2020
H&H Sample No: 20-18167.3-4
P.O. Number:
Collection Date: 06/11/2020
Collection Time: 16:15
Collected By: DN
Received Date: 06/12/2020
Sample Id: Mon River

Ship To Clear
Duane Nichols
330 Dream Catcher Circle
Morgantown, WV 26508

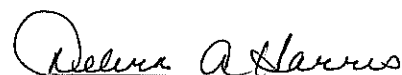
LABORATORY ANALYSIS REPORT

Method No.	Parameter	QL*	MDL*	Results	Units	Date / Time / By
SM22 4500H+B (00)	PH/Lab			R 7.7	S.U.	0612201443et
SM22 2320B (97)	Alkalinity		2	pH4.5 72	mgCaCO3/L	0616201044sc
SM22 2540C (97)	Total Dissolved Solids	25.0	10.0	263.0	mg/L	0616201700ns
SM22 2510B(97)	Specific Conductance @ 25C	5	3	385.3	micromhos/cm	0619201103sc
ASTM D516-02	Sulfate	2	5	147.0	mg/L	0626201548cs
SM22 3111B Fe (99)	Iron	0.075	0.03	0.1	mg/L	0616201651cs
SM22 3111B Mn (99)	Manganese	0.03	0.01	0.05	mg/L	0617201151cs
SM22 3111D Al (99)	Aluminum	0.1	0.03	P 0.09	mg/L	0617201541cs
SM22 3111B Na (99)	Sodium	5.0	0.1	19.6	mg/L	0615201221cs
SM22 4500Cl-B(97)	Chloride		3.0	8.5	mg Cl-/L	0615201233sc
SM22 3500Ca-D(97)	Calcium		3.0	44.1	mg Ca/L	0619201253sc
SM22 3111B Mg (99)	Magnesium	1.5	0.2	11.8	mg/L	0615201449cs

*QL = Quantitation Limit

*MDL = Method Detection Level

R-Received and analyzed outside hold time. P-Estimated value between method detection and practical quantitation limit. Page 1 of 1



Debra A. Harris

Laboratory Director

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Carmichaels, PA 15320

Telephone: (724) 966-2278 Fax: (724) 966-7924
PA Lab # 30-00287

Report No.

358549

Report Date: 07/01/2020

H&H Sample No: 20-18167.5-6

P.O. Number:

Collection Date: 06/11/2020

Collection Time: 16:30

Collected By: DN

Received Date: 06/12/2020

Sample Id: Mgtm Tap

Ship To Clear

Duane Nichols

330 Dream Catcher Circle

Morgantown, WV 26508

LABORATORY

ANALYSIS

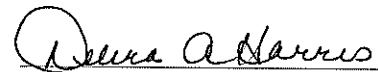
REPORT

Method No.	Parameter	QL*	MDL*	Results	Units	Date / Time / By
SM22 4500H+B (00)	PH/Lab			R 7.9	S.U.	0612201443et
SM22 2320B (97)	Alkalinity		2	pH4.5 67	mgCaCO3/L	0616201044sc
SM22 2540C (97)	Total Dissolved Solids	25.0	10.0	231.0	mg/L	0616201700ns
SM22 2510B(97)	Specific Conductance @ 25C	5	3	335.8	micromhos/cm	0619201103sc
ASTM D516-02	Sulfate	2	5	118.0	mg/L	0626201548cs
SM22 3111B Fe (99)	Iron	0.075	0.03	MD <0.03	mg/L	0616201651cs
SM22 3111B Mn (99)	Manganese	0.03	0.01	MD <0.01	mg/L	0617201151cs
SM22 3111D Al (99)	Aluminum	0.1	0.03	0.3	mg/L	0617201541cs
SM22 3111B Na (99)	Sodium	5.0	0.1	14.8	mg/L	0615201221cs
SM22 4500Cl-B(97)	Chloride		3.0	9.5	mg Cl-/L	0615201233sc
SM22 3500Ca-D(97)	Calcium		3.0	45.7	mg Ca/L	0619201253sc
SM22 3111B Mg (99)	Magnesium	1.5	0.2	8.9	mg/L	0615201449cs

*QL = Quantitation Limit

*MDL = Method Detection Level

R-Received and analyzed outside hold time. MD-Indicates less than method detection limit. Page 1 of 1



Debra A. Harris

Laboratory Director

H&H WATER CONTROLS, INC.

H&H WATER CONTROLS INC.
 65 ROUTE 88 SOUTH, CARMICHAELS, PA 15320
 724.966.2278 Fax: 724.966.7924
 hnhwc@windstream.net

CHAIN OF CUSTODY /
 SAMPLE ANALYSIS REQUEST
 (REVISION 6-1-20)

Login Number:
 18167

Page 1 of 1

Customer Name: Duane Nichols
 Billing Address: 330 Dream Catcher Circle
 City: Morgan Run State: WV Zip Code: 26508
 Telephone No: 304-216-5535 Fax No: 304-599-8040
 Contact Person: Same E-Mail: duane330@aol.com
 Project Name: CLEAR
 Turn Around Time:
 Normal (10-12 Business Days)
 Rush (Surcharges May Apply)
 Purchase Order No.:

Send Results By:
 Mail
 Fax
 E-Mail
 Sampled By: Duane Nichols

Sample Description / Location	Collection Date	Collection Time	Matrix (see key)	Container Type (see key)	Analysis Requested	Lab Containers # (Lab Use Only)	Sample Matrix Key
1 Chest Lake	6/11/20	4:15 PM	G	OLP	PH-AIK-Cond-Sulfate-TDS Chloride-Calcium-1	1	DW = Drinking Water WW = Wastewater GW = Groundwater SW = Stormwater SL = Sludge W = Well SP = Spring ST = Stream PD = Pond PL = Pool OL = Other
2 Mtn. River	6/11/20	4:15 PM	G	OLP	PH-AIK-Cond-Sulfate-TDS Chloride-Calcium	2	Container Key P = Plastic G = Glass
3 Mtn. TAP	6/11/20	4:30 PM	G	OLP	PH-AIK-Cond-Sulfate-TDS Chloride-Calcium	3	Comments: Prepared Bottle #2 Metal
4							Prepared Bottle #4 Metal
5							Prepared Bottle #6 Metal
6							
7							
8							
9							

Container Size/Volume (in mL):
 Preservative Used: 1 = HCl 2 = HNO₃ 3 = H₂SO₄ 4 = Na₂S₂O₃

Relinquished By / Company Name: Duane Nichols Date: 6/12/20 Time: 2 PM Received By / Company Name: J. H. Walker Date: 6-12-20 Time: 1400

Temp: 22.8°C # of Bottles: 3
 PH Checked? Yes No Preserved At Lab? Yes No
 Condition (Lab Use Only):
 2000 250 2000 250 2000 250 2000 250

FIELD TESTS: pH: _____ Temp: _____ DO: _____ Cl₂: _____ FLOW: _____ OTHER: _____

Preservation Comments:
 Bottle 1, 2, 4, 6
 @ 1430
 Preservative #2 (P)