



Division of Water and Sewer Utilities
Environmental Laboratory
4520 Metropolitan Court
Frederick, MD 21704
Phone: (301) 600-1597 Fax: (301) 600-1502
MD Drinking Water Certification No. G-1044

Report of Analysis

Report Date: January 16, 2026

Sample Collector: 1432RS
Date/Time Received: 12/16/25 13:45
Sample Matrix: Drinking Water
Login Record File: 121625_1347

<u>Location</u>	<u>Test/Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Method</u>
AW18466 LLWTP Below Dam							
	12/16/25 12:55						
	Grab						
	Organic Nitrogen	0.7	0.1	mg/l	12/17/25	KMS	Calculation
	Total Nitrogen	2.5	0.1	mg/l	12/17/25	KMS	Calculation
	Temperature, Field	4	1	C	12/16/25	RGS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	12/17/25	KMS	EPA 350.1
	TKN	0.7	0.5	mg/l	12/18/25	KMS	EPA 351.2
	Nitrate + Nitrite-N	1.8	0.2	mg/l	12/17/25	KMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	12/17/25	KMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	12/18/25	KMS	EPA 365.4
	Total Suspended Solids	5	1	mg/l	12/17/25	SDW	SM2540 D
	pH, Lab	7.6	1.0	SU	12/16/25	RGS	SM4500-H + B
	Dissolved Oxygen, Field	11.2	0.1	mg/l	12/16/25	RGS	SM4500-O G
	E. coli, Quantitray	10	1	MPN/100 ml	12/16/25	LKL/RGS/KM:	SM9223

Sample Collector: 1432RS
Date/Time Received: 12/16/25 13:45
Sample Matrix: Drinking_Water
Login Record File: 121625_1347

<u>Location</u>	<u>Test/Parameter</u>	<u>Result</u>	<u>Reporting Limit</u>	<u>Units</u>	<u>Analysis Date</u>	<u>Analyst</u>	<u>Method</u>
AW18467 Ben's Branch							
	12/16/25 12:30						
	Grab						
	Organic Nitrogen	0.5	0.1	mg/l	12/17/25	KMS	Calculation
	Total Nitrogen	3.9	0.1	mg/l	12/17/25	KMS	Calculation
	Temperature, Field	2	1	C	12/16/25	RGS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	12/17/25	KMS	EPA 350.1
	TKN	0.5	0.5	mg/l	12/18/25	KMS	EPA 351.2
	Nitrate + Nitrite-N	3.4	0.2	mg/l	12/17/25	KMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	12/17/25	KMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	12/18/25	KMS	EPA 365.4
	Total Suspended Solids	Present < RDL	1	mg/l	12/17/25	SDW	SM2540 D
	pH, Lab	7.4	1.0	SU	12/16/25	RGS	SM4500-H + B
	Dissolved Oxygen, Field	10.7	0.1	mg/l	12/16/25	RGS	SM4500-O G
	E. coli, Quantitray	10	1	MPN/100 ml	12/16/25	LKL/RGS/KM:	SM9223

Verified by:

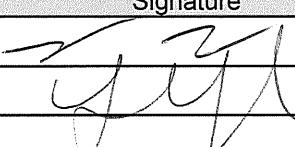
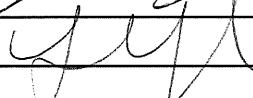


Christopher Baggett
Laboratory Supervisor

CHAIN OF CUSTODY RECORD

Ortho-P samples filtered at the time of collection.

12-16-25 LKL

FACILITY LOCATION: LAKE LINGANORE				Analysis Requested								Temp Control <u>2</u> °C			
SAMPLE DATE December 16, 2025												Date/Time/Initial <u>12-16-25 1345 LKL</u>			
Frederick County Division of Water and Sewer Utilities Laboratory 7303 Marcies Choice Lane Frederick, MD 21704				TKN/TP	NO ₃ NO ₂ & NH ₃ N	E. coli	#	Ortho-P	TSS	TEMP	pH	D.O.	S- H ₂ SO ₄ added by <u>LKL</u> on <u>12-16-25</u>		
				P	P		P	P							Analysis on Chain performed:
				S	H ₂ SO ₄										Date/Time/Initial _____
				Number of Containers per Analysis Requested								Comments	LIMS#		
1 LLWTP Below Dam	G	1255	DW	1	1	1	1	1	1	4	7.6	11.2		AW18 466	
2 Ben's Branch	G	1230	DW	1	1	1	1	1	1	2	7.4	10.7		AW18 467	
3 Nightingale Beach	G	—	DW							—	—	—	frozen	AW18—	
4 Boyers Mill Bridge	G	—	DW							—	—	—	frozen	AW18—	
5 Coldstream Beach	G	—	DW							—	—	—	frozen	AW18	
6 Linganore Creek	G	—	DW							—	—	—	frozen	AW18	
7															
8															
9															
10															
Print Name				Signature				Date		Time		Remarks			
Sampled by:	Robert Shaw								12/16/25		1255				
Received by:	Laura Lamb								12/16/25		1345				
Relinquished by:															
Received by:															
Relinquished by:															
Received by:													121625 1347		