



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: September 05, 2023

Sample Collector: 1062SA
Date/Time Received: 8/22/23 14:32
Sample Matrix: Drinking_Water
Login Record File: 082223_1434

<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>
AU12084 LLWTP Below Dam							
8/22/23 12:35							
Grab							
	Organic Nitrogen	1.0	0.1	mg/l	8/24/23	KMS	Calculation
	Total Nitrogen	1.0	0.1	mg/l	8/24/23	KMS	Calculation
	Temperature, Field	26	1	C	8/22/23	SPA/KMS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	8/24/23	KMS	EPA 350.1
	TKN	1.0	0.5	mg/l	8/24/23	KMS	EPA 351.2
	Nitrate + Nitrite-N	Present < RDL	0.2	mg/l	8/23/23	MMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	8/23/23	MMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	8/24/23	KMS	EPA 365.4
	Total Suspended Solids	8	1	mg/l	8/23/23	SPA	SM2540 D
	pH, Lab	7.8	1.0	SU	8/22/23	SPA/KMS	SM4500-H + B
	Dissolved Oxygen, Field	8.3	0.1	mg/l	8/22/23	SPA/KMS	SM4500-O G
	E. coli, Quantitray	< 10	1	MPN/100 ml	8/22/23	SPA/KMS	SM9223

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AU12085 Ben's Branch							
8/22/23 13:10							
Grab							
	Organic Nitrogen	Present < RDL	0.1	mg/l	8/24/23	KMS	Calculation
	Total Nitrogen	1.0	0.1	mg/l	8/24/23	KMS	Calculation
	Temperature, Field	22	1	C	8/22/23	SPA/KMS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	8/24/23	KMS	EPA 350.1
	TKN	Present < RDL	0.5	mg/l	8/24/23	KMS	EPA 351.2
	Nitrate + Nitrite-N	1.0	0.2	mg/l	8/23/23	MMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	8/23/23	MMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	8/24/23	KMS	EPA 365.4
	Total Suspended Solids	5	1	mg/l	8/23/23	SPA	SM2540 D
	pH, Lab	7.5	1.0	SU	8/22/23	SPA/KMS	SM4500-H + B
	Dissolved Oxygen, Field	8.2	0.1	mg/l	8/22/23	SPA/KMS	SM4500-O G
	E. coli, Quantitray	650	1	MPN/100 ml	8/22/23	SPA/KMS	SM9223

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AU12086	Nightingale Beach						
	8/22/23 13:25						
	Grab						
	Organic Nitrogen	1.5	0.1	mg/l	8/24/23	KMS	Calculation
	Total Nitrogen	1.5	0.1	mg/l	8/24/23	KMS	Calculation
	Temperature, Field	27	1	C	8/22/23	SPA/KMS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	8/24/23	KMS	EPA 350.1
	TKN	1.5	0.5	mg/l	8/24/23	KMS	EPA 351.2
	Nitrate + Nitrite-N	Present < RDL	0.2	mg/l	8/23/23	MMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	8/23/23	MMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	8/24/23	KMS	EPA 365.4
	Total Suspended Solids	35	1	mg/l	8/23/23	SPA	SM2540 D
	pH, Lab	8.9	1.0	SU	8/22/23	SPA/KMS	SM4500-H + B
	Dissolved Oxygen, Field	13.6	0.1	mg/l	8/22/23	SPA/KMS	SM4500-O G
	E. coli, Quantitray	< 10	1	MPN/100 ml	8/22/23	SPA/KMS	SM9223

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AU12087	Boyers Mill Bridge						
	8/22/23 13:35 Grab						
	Organic Nitrogen	1.6	0.1	mg/l	8/24/23	KMS	Calculation
	Total Nitrogen	1.6	0.1	mg/l	8/24/23	KMS	Calculation
	Temperature, Field	27	1	C	8/22/23	SPA/KMS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	8/24/23	KMS	EPA 350.1
	TKN	1.6	0.5	mg/l	8/24/23	KMS	EPA 351.2
	Nitrate + Nitrite-N	Present < RDL	0.2	mg/l	8/23/23	MMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	8/23/23	MMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	8/24/23	KMS	EPA 365.4
	Total Suspended Solids	31	1	mg/l	8/23/23	SPA	SM2540 D
	pH, Lab	8.8	1.0	SU	8/22/23	SPA/KMS	SM4500-H + B
	Dissolved Oxygen, Field	12.6	0.1	mg/l	8/22/23	SPA/KMS	SM4500-O G
	E. coli, Quantitray	< 10	1	MPN/100 ml	8/22/23	SPA/KMS	SM9223

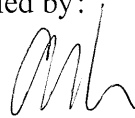
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AU12088 Coldstream Beach							
8/22/23 13:50 Grab							
	Organic Nitrogen	1.8	0.1	mg/l	8/24/23	KMS	Calculation
	Total Nitrogen	1.8	0.1	mg/l	8/24/23	KMS	Calculation
	Temperature, Field	28	1	C	8/22/23	SPA/KMS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	8/24/23	KMS	EPA 350.1
	TKN	1.8	0.5	mg/l	8/24/23	KMS	EPA 351.2
	Nitrate + Nitrite-N	Present < RDL	0.2	mg/l	8/23/23	MMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	8/23/23	MMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	8/24/23	KMS	EPA 365.4
	Total Suspended Solids	24	1	mg/l	8/23/23	SPA	SM2540 D
	pH, Lab	9.1	1.0	SU	8/22/23	SPA/KMS	SM4500-H + B
	Dissolved Oxygen, Field	13.6	0.1	mg/l	8/22/23	SPA/KMS	SM4500-O G
	E. coli, Quantitray	< 10	1	MPN/100 ml	8/22/23	SPA/KMS	SM9223

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AU12089	Linganore Creek						
8/22/23	14:05						
Grab							
	Organic Nitrogen	Present < RDL	0.1	mg/l	8/24/23	KMS	Calculation
	Total Nitrogen	1.1	0.1	mg/l	8/24/23	KMS	Calculation
	Temperature, Field	25	1	C	8/22/23	SPA/KMS	EPA 170.1
	Ammonia-N	Present < RDL	0.2	mg/l	8/24/23	KMS	EPA 350.1
	TKN	Present < RDL	0.5	mg/l	8/24/23	KMS	EPA 351.2
	Nitrate + Nitrite-N	1.1	0.2	mg/l	8/23/23	MMS	EPA 353.2
	Ortho Phosphate	Present < RDL	0.06	mg/l	8/23/23	MMS	EPA 365.1
	Total Phosphorus	Present < RDL	0.20	mg/l	8/24/23	KMS	EPA 365.4
	Total Suspended Solids	3	1	mg/l	8/23/23	SPA	SM2540 D
	pH, Lab	7.5	1.0	SU	8/22/23	SPA/KMS	SM4500-H + B
	Dissolved Oxygen, Field	8.7	0.1	mg/l	8/22/23	SPA/KMS	SM4500-O G
	E. coli, Quantitray	118	1	MPN/100 ml	8/22/23	SPA/KMS	SM9223

Verified by:



Christopher Baggett
Laboratory Supervisor

CHAIN OF CUSTODY RECORD

Ortho-P samples filtered at the time of collection. 8-22-23 1405 SPA

Temp Control 3 °C

Date/Time/Initial 8/22/23 1435

S- H₂SO₄ added by MMS on 8/22/23

Analysis on Chain performed:

Date/Time/Initial 8-22-23 1405 SPA

FACILITY LOCATION: LAKE LINGANORE		Analysis Requested										
SAMPLE DATE August 22, 2023		TKN/TP	NO ₃ NO ₂ & NH ₃ N	F Coli	Ortho-P #	TSS	TEMP	PH	OD	Number of Containers per Analysis Requested		
Sample Description/Location	G/C Time **	Matrix *	P	P	P	P					Comments	LIMS#
1 LLWTP Below Dam	G 1235	DW	1	1	1	1	26	7.8	8.3			AU12 084
2 Ben's Branch	G 1310	DW	1	1	1	1	22	7.5	8.2			AU12 085
3 Nightingale Beach	G 1325	DW	1	1	1	1	27	8.9	13.6			AU12 086
4 Boyers Mill Bridge	G 1335	DW	1	1	1	1	27	8.8	12.6			AU12 087
5 Coldstream Beach	G 1350	DW	1	1	1	1	28	9.1	13.6			AU12 088
6 Linganore Creek	G 1405	DW	1	1	1	1	25	7.5	8.7			AU12 089
7												
8												
9												
10												
Print Name		Signature		Date		Time		Remarks				
Sampled by: Sean Allen		Sean P. An		08/22/23		1405						
Received by: Kati Saylor		Kati Saylor		08/22/23		1432						
Relinquished by:										082223-01434		
Received by:										108 8/22/23		
Relinquished by:												
Received by:												

