



IEH ANALYTICAL LABORATORIES
LABORATORY & CONSULTING SERVICES
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CASE FILE NUMBER:	1724062 and 1724063	PAGE 1
REPORT DATE:	07/09/21	
DATE SAMPLED:	06/02/21	DATE RECEIVED: 06/03/21
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty seven water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent page.

SAMPLE DATA

SAMPLE ID	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
TS-1	0.005	<0.001	<0.010				
TS-2	0.068	0.013	1.06				
TS-5a	0.011		0.019			2.0	0.9
TS-5b	0.010						
TS-5d	0.011						
TS-6a	0.020		0.097			3.0	1.2
TS-6b	0.015						
TS-6c	0.021						
TS-6d	0.024						
TS-7a	0.014		0.089			1.4	0.6
TS-Tb	0.033						
TS-7d	0.018						
TS-11a	0.019		0.060			1.4	0.2
TS-11b	0.019						
TS-11c	0.023						
TS-11d	0.037						
TS-15a	0.018		0.148			2.0	0.7
TS-15b	0.021						
TS-15c	0.034						
TS-15d	0.020						
TS-12	0.030		0.109			3.2	1.3
TS-13	0.042	0.009	1.22	251	21.0		
TS-14	0.135	0.097	0.97	160	17.3		
TS-9	0.053	0.017	10.5	577	51.0		
TS-8	0.053		0.750			2.5	2.2
TS-3	0.026		0.153				
TS-4	0.016		0.110				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.189
TS-13	610	
TS-14	1380	
TS-9	3330	



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SAMPLES FROM MLIRD		

QA/QC DATA

QC PARAMETER	TOTAL-P (mg/L)	SRP (mg/L)	N03+N02 (mg/L)	ALKALINITY (mgCaCO3/L)	SODIUM (mg/L)	CHLOR_a (ug/L)	PHAEO_a (ug/L)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7	SM1810200H	SM1810200H
DATE ANALYZED	06/03/21	06/03/21	06/03/21	06/04/21	06/09/21	06/05/21	06/05/21
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-11a	BATCH	TS-4	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.019	<0.001	0.110	71.6	10.7	1.4	0.4
DUPLICATE	0.019	<0.001	0.110	71.4	10.7	1.4	0.4
RPD	0.79%	NC	0.53%	0.28%	0.24%	0.00%	0.00%
SPIKE SAMPLE							
SAMPLE ID	TS-11a	BATCH	TS-4		BATCH		
ORIGINAL	0.019	<0.001	0.110		10.7		
SPIKED SAMPLE	0.069	0.022	0.318		20.8		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	99.18%	110.00%	104.02%	NA	100.75%	NA	NA
QC CHECK							
FOUND	0.091	0.040	0.432	101	10.0		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	96.81%	102.56%	105.88%	101.00%	100.00%	NA	NA
BLANK							
	<0.002	<0.010	<0.010	NA	<0.500	NA	NA

RPD = RELATIVE PERCENT DIFFERENCE.
 NA = NOT APPLICABLE OR NOT AVAILABLE.
 NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
 OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski

Damien Gadomski
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