



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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CASE FILE NUMBER:	1732908	PAGE 1
REPORT DATE:	07/21/22	
DATE SAMPLED:	06/06/22	DATE RECEIVED: 06/07/22
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM MLIRD		

CASE NARRATIVE

Twenty nine 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	0.013	<0.001	0.032				
TS-2	0.052	0.010	0.655				
TS-3	0.025		1.93				
TS-4a	0.019		0.030				
TS-4d	0.021						
TS-5a	0.018		0.059			2.4	1.7
TS-5b	0.014						
TS-5d	0.012						
TS-6a	0.010	<0.001	0.022	105		2.4	0.8
TS-6b	0.011						
TS-6c	0.011						
TS-6d	0.017	<0.001					
TS-7a	0.012		<0.010			3.5	0.8
TS-7b	0.081						
TS-7d	0.012						
TS-8a	0.088		<0.010			18	8.4
TS-8d	0.078						
TS-9	0.454	0.036	14.0	389	60.6		
TS-11a	0.015	<0.001	<0.010	119		2.9	1.5
TS-11b	0.015						
TS-11c	0.014						
TS-11d	0.013						
TS-12a	0.044		0.294			12	5.7
TS-12d	0.049						
TS-14	0.296	0.124	1.34	157	18.2		
TS-15a	0.011		<0.010			3.7	1.1
TS-15b	0.013						
TS-15c	0.011						
TS-15d	0.010						

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-1	89	
TS-2		1.78
TS-6a		0.215
TS-9	581	
TS-11a		0.412
TS-14	209	2.54



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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	06/14/22	06/08/22	06/09/22	06/08/22	06/14/22	06/10/22	06/10/22
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-8a	BATCH	TS-15a	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.088	0.010	<0.010	16.8	95.1	12	36
DUPLICATE	0.083	0.010	<0.010	16.6	95.9	12	36
RPD	5.15%	1.36%	NC	1.20%	0.83%	4.44%	0.44%
SPIKE SAMPLE							
SAMPLE ID	TS-8a	BATCH	TS-15a		BATCH		
ORIGINAL	0.088	0.010	<0.010		95.1		
SPIKED SAMPLE	0.145	0.030	0.217		107		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	113.68%	100.58%	108.45%	NA	119.44%	NA	NA
QC CHECK							
FOUND	0.094	0.037	0.429	98.0	10.5		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	100.00%	94.87%	105.15%	98.00%	105.00%	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
 Project Manager