



IEH ANALYTICAL LABORATORIES

LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	1724819	PAGE 1
REPORT DATE:	08/10/21	
DATE SAMPLED:	06/29/21	DATE RECEIVED: 06/30/21
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	0.011	<0.001	<0.010				
TS-2	0.098	0.009	0.943				
TS-5a	0.019		0.011			4.3	0.4
TS-5b	0.018						
TS-5d	0.044						
TS-6a	0.014		<0.010			4.5	0.1
TS-6b	0.020						
TS-6c	0.031						
TS-6d	0.159						
TS-7a	0.018		<0.010			1.6	0.8
TS-7b	0.015						
TS-7d	0.029						
TS-11a	0.029		<0.010			11	0.6
TS-11b	0.030						
TS-11c	0.037						
TS-11d	0.124						
TS-15a	0.020		<0.010			4.0	0.3
TS-15b	0.021						
TS-15c	0.051						
TS-15d	0.110						
TS-12	0.035		0.046			4.5	0.9
TS-13	0.037	0.014	2.01	263	20.0		
TS-14	0.185	0.106	2.09	159	17.6		
TS-9	0.054	0.033	14.2	388	57.6		
TS-8	0.048		<0.010			3.7	3.4
TS-3	0.016		0.180				
TS-4	0.015		0.048				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.331
TS-13	587	
TS-14	367	
TS-9	949	



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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	07/06/21	07/02/21	07/02/21	07/01/21	07/03/21	07/16/21	07/16/21
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-4	BATCH	TS-4	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.015	0.006	0.048	46.0	0.670	5.6	3.9
DUPLICATE	0.015	0.006	0.048	46.1	0.615	5.3	3.4
RPD	3.37%	0.61%	0.15%	0.22%	8.56%	4.88%	13.46%
SPIKE SAMPLE							
SAMPLE ID	TS-4	BATCH	TS-4		BATCH		
ORIGINAL	0.015	0.006	0.048		0.670		
SPIKED SAMPLE	0.071	0.026	0.250		10.8		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	111.18%	102.23%	101.12%	NA	101.00%	NA	NA
QC CHECK							
FOUND	0.098	0.040	0.408	101	9.66		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	104.26%	102.56%	100.00%	101.00%	96.60%	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