



# IEH ANALYTICAL LABORATORIES

## LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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<b>CASE FILE NUMBER:</b>	<b>1727127</b>	<b>PAGE 1</b>
<b>REPORT DATE:</b>	<b>10/22/21</b>	
<b>DATE SAMPLED:</b>	<b>09/22/21</b>	<b>DATE RECEIVED: 09/23/21</b>
<b>FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER</b>		
<b>SAMPLES FROM MLIRD</b>		

### 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	0.006	<0.001	<0.010				
TS-2	0.044	0.016	1.58				
TS-5a	0.063		0.099			27	3.9
TS-5b	0.048						
TS-5d	0.044						
TS-6a	0.034		0.034			13	0.9
TS-6b	0.032						
TS-6c	0.025						
TS-6d	0.026						
TS-7a	0.047		<0.010			29	1.7
TS-7b	0.051						
TS-7d	0.038						
TS-11a	0.080		0.058			35	2.1
TS-11b	0.061						
TS-11c	0.062						
TS-11d	0.091						
TS-15a	0.046		0.046			15	1.5
TS-15b	0.039						
TS-15c	0.031						
TS-15d	0.034						
TS-12	0.073		0.306			18	2.6
TS-13	0.027	0.016	3.98	235	25.5		
TS-14	0.140	0.093	1.61	147	19.6		
TS-9	0.083	0.052	11.4	369	64.9		
TS-8	0.035		0.016			5.9	2.3
TS-3	0.034		1.21				
TS-4	0.061		0.094				

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.826
TS-13	614	
TS-14	358	
TS-9	931	



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<b>CASE FILE NUMBER:</b>	1727127	<b>PAGE 2</b>
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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	09/29/21	09/23/21	09/23/21	09/28/21	09/27/21	10/13/21	10/13/21
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	TS-5a	TS-5a
ORIGINAL	0.061	0.020	0.094	107	<0.500	27	3.9
DUPLICATE	0.061	0.020	0.095	108	<0.500	29	4.5
RPD	0.90%	1.85%	1.06%	0.47%	NC	5.29%	14.29%
SPIKE SAMPLE							
SAMPLE ID	TS-4	BATCH	TS - 4		BATCH		
ORIGINAL	0.061	0.020	0.094		<0.500		
SPIKED SAMPLE	0.114	0.041	0.283		9.74		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	106.44%	106.71%	94.50%	NA	97.39%	NA	NA
QC CHECK							
FOUND	0.096	0.041	0.410	99.8	10.3		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	102.13%	105.13%	100.49%	99.80%	103.00%	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**  
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