



# IEH ANALYTICAL LABORATORIES

## LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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<b>CASE FILE NUMBER:</b>	<b>1714620</b>	<b>PAGE 1</b>
<b>REPORT DATE:</b>	<b>07/24/20</b>	
<b>DATE SAMPLED:</b>	<b>06/30/20</b>	<b>DATE RECEIVED: 07/01/20</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	0.008	0.002	<0.010				
TS-2	0.040	0.010	1.89				
TS-5a	0.059		<0.010			15	0.3
TS-5b	0.066						
TS-5d	0.059						
TS-6a	0.045		0.010			8.3	0.6
TS-6b	0.042						
TS-6c	0.179						
TS-6d	0.134						
TS-7a	0.030		<0.010			6.0	0.5
TS-7b	0.068						
TS-7d	0.030		<0.010				
TS-11a	0.128		<0.010			28	0.2
TS-11b	0.133						
TS-11c	0.080						
TS-11d	0.110						
TS-15a	0.094		<0.010			17	0.6
TS-15b	0.095						
TS-15c	0.090						
TS-15d	0.080						
TS-12	0.141		0.213			21	2.1
TS-13	0.072	0.019	2.08	255	21.1		
TS-14	0.170	0.113	1.59	154	18.1		
TS-9	0.078	0.023	11.8	347	59.8		
TS-8	0.163		<0.010			20	5.2
TS-3	0.038		1.18				
TS-4	0.086		0.254				

SAMPLE ID	CONDUCTIVITY (umhos/cm)
TS-13	571
TS-14	368
TS-9	849



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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)	PHAE0_a (ug/L)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7	SM1810200H	SM1810200H
DATE ANALYZED	07/06/20	07/01/20	07/02/20	07/07/20	07/08/20	07/07/20	07/07/20
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500	0.1	0.1
DUPLICATE							
SAMPLE ID	TS-11a	BATCH	BATCH	TS-9	BATCH	BATCH	BATCH
ORIGINAL	0.128	<0.001	0.018	347	<0.500	0.9	0.8
DUPLICATE	0.126	<0.001	0.019	338	<0.500	0.9	0.8
RPD	1.47%	NC	6.73%	2.45%	NC	0.00%	0.00%
SPIKE SAMPLE							
SAMPLE ID	TS-11a	BATCH	BATCH		BATCH		
ORIGINAL	0.128	<0.001	0.018		<0.500		
SPIKED SAMPLE	0.178	0.022	0.222		10.5		
SPIKE ADDED	0.050	0.020	0.200		10.0		
% RECOVERY	99.96%	108.16%	102.11%	NA	105.00%	NA	NA
QC CHECK							
FOUND	0.095	0.040	0.404	98.8	9.63		
TRUE	0.094	0.039	0.408	100	10.0		
% RECOVERY	101.06%	102.56%	99.02%	98.80%	96.30%	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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