



# IEH ANALYTICAL LABORATORIES

## LABORATORY & CONSULTING SERVICES

3927 AURORA AVENUE NORTH, SEATTLE, WA 98103

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<b>CASE FILE NUMBER:</b>	<b>1725796</b>	<b>PAGE 1</b>
<b>REPORT DATE:</b>	<b>10/04/21</b>	
<b>DATE SAMPLED:</b>	<b>08/03/21</b>	<b>DATE RECEIVED: 08/04/21</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)
TS - 1	0.032	<0.001	0.019		
TS - 2	0.334	0.004	1.42		
TS - 5a	0.018		0.014		
TS - 5b	0.018				
TS - 5d	0.025				
TS - 6a	0.016		0.009		
TS - 6b	0.019				
TS - 6c	0.021				
TS - 6d	0.154				
TS - 7a	0.015		0.013		
TS - 7b	0.015				
TS - 7d	0.016				
TS - 11a	0.026		<0.010		
TS - 11b	0.030				
TS - 11c	0.035				
TS - 11d	0.043				
TS - 15a	0.020		<0.010		
TS - 15b	0.021				
TS - 15c	0.023				
TS - 15d	0.028				
TS - 12	0.040		0.147		
TS - 13	0.052	0.032	2.62	281	23.1
TS - 14	0.136	0.085	1.47	170	18.1
TS - 9	0.092	0.043	14.5	408	57.4
TS - 8	0.030		0.032		
TS - 3	0.020		0.296		
TS - 4	0.034		0.019		

SAMPLE ID	CONDUCTIVITY (umhos/cm)	TOTAL-N (mg/L)
TS-6a		0.484
TS-13	620	
TS-14	360	
TS-9	955	



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<b>CASE FILE NUMBER:</b>	<b>1725796</b>	<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)
METHOD	SM18 4500PF	SM18 4500PF	SM184500N03F	SM18 2320B	EPA 200.7
DATE ANALYZED	08/09/21	08/06/21	08/05/21	08/06/21	08/11/21
REPORTING LIMIT	0.002	0.001	0.010	1.00	0.500
DUPLICATE					
SAMPLE ID	TS - 4	BATCH	BATCH	BATCH	BATCH
ORIGINAL	0.034	<0.001	0.297	21.9	<0.500
DUPLICATE	0.033	<0.001	0.300	22.0	<0.500
RPD	1.46%	NC	0.89%	0.46%	NC
SPIKE SAMPLE					
SAMPLE ID	TS - 4	BATCH	BATCH		BATCH
ORIGINAL	0.034	<0.001	0.297		<0.500
SPIKED SAMPLE	0.089	0.018	0.503		9.17
SPIKE ADDED	0.050	0.020	0.200		10.0
% RECOVERY	110.50%	90.00%	103.18%	NA	91.70%
QC CHECK					
FOUND	0.097	0.038	0.429	96.3	9.96
TRUE	0.094	0.039	0.408	100	10.0
% RECOVERY	103.19%	97.44%	105.15%	96.30%	99.60%
BLANK					
	<0.002	<0.010	<0.010	NA	<0.500

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:

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 Project Manager