

Laboratory Report of Analysis

To: Stantec Consulting Services Inc. 725 East Fireweed Lane Suite 200 Anchorage, AK 99503 (907)248-8883

Report Number: 1195564

Client Project: Wasilla WWTP

Dear John Marshall,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Justin Nelson Project Manager Justin.Nelson@sgs.com Date

Print Date: 10/08/2019 4:24:00PM

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Case Narrative

SGS Client: Stantec Consulting Services Inc. SGS Project: 1195564 Project Name/Site: Wasilla WWTP Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

SW1 (1195564001) PS

5210B - BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

SW2 (1195564005) PS

5210B - BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

SW3 (1195564006) PS

5210B - BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

LCSS for HBN 1799715 [BOD/6432 (1533151) LCSS

5210B – BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

1195346002MSD (1535142) MSD

4500N-D - Total Kjeldahl Nitrogen - MSD recovery is outside of QC criteria. Refer to LCS for accuracy requirements.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification, and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.
Sample summaries which i All DRO/RRO analyses are	nclude a result for "Total Solids" have already been adjusted for moisture content. i integrated per SOP.

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Note:

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Sample Summary Client Sample ID Lab Sample ID **Collected Received** Matrix SW1 1195564001 09/19/2019 09/19/2019 Water (Surface, Eff., Ground) MW2B 1195564002 Water (Surface, Eff., Ground) 09/19/2019 09/19/2019 Water (Surface, Eff., Ground) Β1 1195564003 09/19/2019 09/19/2019 **MW10** 1195564004 09/19/2019 09/19/2019 Water (Surface, Eff., Ground) SW2 Water (Surface, Eff., Ground) 1195564005 09/19/2019 09/19/2019 SW3 1195564006 09/19/2019 09/19/2019 Water (Surface, Eff., Ground) **MW15** 1195564007 09/19/2019 09/19/2019 Water (Surface, Eff., Ground) Β4 1195564008 09/19/2019 09/19/2019 Water (Surface, Eff., Ground)

<u>Method</u>

SM21 4500-NH3 G SM21 5210B SM21 9222D EPA 300.0 SM21 4500-N D SM21 9223B SM21 4500P-B,E SM21 2540D Method Description Ammonia-N (W) SM21 4500-NH3 G Biochemical Oxygen Demand SM21 5210B Fecal Coliform (MF) Ion Chromatographic Analysis TKN by Phenate (W) Total Coliform P/A Quant Tray Total Phosphorus (W) Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: SW1			
Lab Sample ID: 1195564001	<u>Parameter</u>	Result	<u>Units</u>
Microbiology Laboratory	E. Coli	2	MPN/100mL
	Fecal Coliform	8.3	col/100mL
	Total Coliform	435	MPN/100mL
Waters Department	Ammonia-N	0.119	mg/L
-	Total Kjeldahl Nitrogen	0.556J	mg/L
	Total Phosphorus	0.0207	mg/L
	Total Suspended Solids	1.61	mg/L
Client Sample ID: MW2B			
Lab Sample ID: 1195564002	<u>Parameter</u>	Result	Units
Waters Department	Ammonia-N	0.152	mg/L
•			
Client Sample ID: B1			
Lab Sample ID: 1195564003	Parameter	<u>Result</u>	<u>Units</u>
Waters Department	Ammonia-N	0.126	mg/L
Client Sample ID: MW10			
Lab Sample ID: 1195564004	<u>Parameter</u>	Result	<u>Units</u>
Waters Department	Ammonia-N	0.0694J	mg/L
	Nitrate-N	0.0650J	mg/L
	Total Nitrate/Nitrite-N	0.0820J	mg/L
Client Sample ID: SW2			
Lab Sample ID: 1195564005	Parameter	Result	Units
Microbiology Laboratory	E. Coli	18	MPN/100mL
Microbiology Laboratory	Fecal Coliform	46	col/100mL
	Total Coliform	727	MPN/100mL
Waters Department	Ammonia-N	0.0938J	mg/L
Waters Department	Nitrate-N	2.36	mg/L
	Total Kjeldahl Nitrogen	0.689J	mg/L
	Total Nitrate/Nitrite-N	2.38	mg/L
	Total Suspended Solids	1.13	mg/L
Client Sample ID: SW3	·		Ũ
Lab Sample ID: 1195564006	Parameter	Result	Units
Microbiology Laboratory	E. Coli	GT2420	MPN/100mL
Microbiology Laboratory	Fecal Coliform	TNTC	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.143	mg/L
Waters Department	Nitrate-N	13.3	mg/L
	Total Kjeldahl Nitrogen	1.18	mg/L
	Total Nitrate/Nitrite-N	13.3	-
			mg/L
	Total Phosphorus Total Suspended Solids	2.57 12.5	mg/L mg/L
		12.5	iiig/L
Client Sample ID: MW15	_		
Lab Sample ID: 1195564007	Parameter	<u>Result</u>	<u>Units</u>
Waters Department	Ammonia-N	0.350	mg/L

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Detectable Results Summary

Client Sample ID: **B4** Lab Sample ID: 1195564008 **Waters Department**

<u>Parameter</u>	Result	Units
Ammonia-N	0.0595J	mg/L
Nitrate-N	1.41	mg/L
Total Nitrate/Nitrite-N	1.41	mg/L

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Client Sample ID: SW1 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564001 Lab Project ID: 1195564	C R M S						
Results by Microbiology Laboratory			<u> </u>				
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result</u> Qual 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/19/19 19:10
Batch Information Analytical Batch: BOD6432 Analytical Method: SM21 5210B Analyst: ACF Analytical Date/Time: 09/19/19 19:10 Container ID: 1195564001-E							
<u>Parameter</u> Fecal Coliform	<u>Result</u> Qual 8.3	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100m	<u>DF</u> IL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/19/19 17:06
Analytical Batch: BTF17657 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/19/19 17:06 Container ID: 1195564001-A							
Parameter_	<u>Result Qual</u>	LOQ/CL	DL	Units	DF	<u>Allowable</u> Limits	Date Analyzed
E. Coli	2	1	1	MPN/100)n 1		09/19/19 17:37
Total Coliform	435	1	1	MPN/100)n 1		09/19/19 17:37
Batch Information							
Analytical Batch: BTF17656 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/19/19 17:37 Container ID: 1195564001-C							
int Date: 10/08/2019 4:24:16PM						J flaggin	g is activated

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Results of SW1							
Client Sample ID: SW1 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564001 Lab Project ID: 1195564	Collection Date: 09/19/19 10:46 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department							
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/19/19 21:3 09/19/19 21:3 09/19/19 21:3
Batch Information Analytical Batch: WIC5967 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/19/19 21:34 Container ID: 1195564001-B		F F	Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	METHOD ne: 09/19/1 t./Vol.: 10 r			
Parameter Total Suspended Solids	<u>Result Qual</u> 1.61	<u>LOQ/CL</u> 1.08	<u>DL</u> 0.333	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/23/19 18:2
Batch Information Analytical Batch: STS6493 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/23/19 18:27 Container ID: 1195564001-F							
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.556 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 15:2
Batch Information							
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 15:26 Container ID: 1195564001-D		F F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r	9 12:08		
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.119	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/28/19 14:1

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Results of SW1							
Client Sample ID: SW1 Client Project ID: Wasilla WWTP ab Sample ID: 1195564001 ab Project ID: 1195564	F N S	Collection Dat Received Date Matrix: Water Solids (%): Location:	e: 09/19/ [,]	19 15:27	und)		
Results by Waters Department							
Batch Information							
Analytical Batch: WDA4653 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 09/28/19 14:10 Container ID: 1195564001-D			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 09/28/1 ./Vol.: 6 m	9 11:10		
						Allowable	
P <u>arameter</u> Total Phosphorus	<u>Result Qual</u> 0.0207	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	Date Analyzed 09/29/19 20:18
Batch Information							
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:18 Container ID: 1195564001-D			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 ./Vol.: 25 r	9 16:54		

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Results of MW2B							
Client Sample ID: MW2B Client Project ID: Wasilla WW Lab Sample ID: 1195564002 Lab Project ID: 1195564	R M S	eceived D	0ate: 09/19/19 ate: 09/19/19 er (Surface, E	9 15:27	,		
Results by Microbiology Labor	ratory		_				
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 1.00 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100ml	<u>DF</u> _ 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/19/19 17:06
Batch Information							
Analytical Batch: BTF17657 Analytical Method: SM21 92220 Analyst: ACF Analytical Date/Time: 09/19/19 Container ID: 1195564002-A							

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Result Qual		Collection Da Received Dat Matrix: Water Solids (%): Location:	e: 09/19/1	9 15:27	und)	
Result Qual		Location.				
Result Qual						
0.100 U 0.100 U 0.100 U 0.100 U	<u>LOQ/CL</u> 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/19/19 22:12 09/19/19 22:12 09/19/19 22:12
			-			
		Prep Method: Prep Date/Tin Prep Initial W	METHOD ne: 09/19/1 t./Vol.: 10 r			
<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/29/19 15:2
		Prep Method: Prep Date/Tin Prep Initial W	METHOD ne: 09/28/1 t./Vol.: 25 r			
<u>Result Qual</u> 0.152	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzec 09/28/19 14:12
		Prep Method: Prep Date/Tin Prep Initial W	METHOD ne: 09/28/1 t./Vol.: 6 m			
	Vo Anakara				J flagginę	g is activated
	Result Qual 0.500 U	Result Qual LOQ/CL 0.500 U 1.00 Result Qual LOQ/CL 0.152 0.100	Prep Batch: A Prep Method: Prep Date/Tin Prep Initial W Prep Extract A Result Qual 0.500 U LOQ/CL 1.00 DL 0.310 Prep Batch: A Prep Method: Prep Date/Tin Prep Initial W Prep Extract A Result Qual 0.152 LOQ/CL 0.100 DL DL 0.0310 Prep Batch: A Prep Method: Prep Date/Tin Prep Initial W Prep Extract A West Potter Drive Anchorage, AK 95518	0.100 U 0.200 0.0500 mg/L Prep Batch: WXX13019 Prep Method: METHOD Prep Date/Time: 09/19/1 Prep Initial Wt./vol.: 10 m Result Qual LOQ/CL DL Units 0.500 U 1.00 0.310 mg/L Prep Batch: WXX13039 Prep Method: METHOD Prep Date/Time: 09/28/1 Prep Date/Time: 09/28/1 Prep Date/Time: 0.152 0.100 DL Units Result Qual LOQ/CL DL Units 0.152 0.100 D.0310 mg/L Prep Batch: WXX13038 Prep Method: METHOD Prep Date/Time: 09/28/1 Prep Initial Wt./vol.: 6 m mg/L 0.152 0.100 DL Units Mg/L	0.100 U 0.200 0.0500 mg/L 1 Prep Batch: WXX13019 Prep Method: METHOD Prep Date/Time: 09/19/19 11:00 Prep Initial WL/Vol.: 10 mL Prep Extract Vol: 10 mL D Result Qual 0.500 U LOQ/CL 1.00 DL 0.310 Units mg/L DE 1 Prep Batch: WXX13039 Prep Method: METHOD Prep Date/Time: 09/28/19 12:08 Prep Initial WL/Vol.: 25 mL Prep Date/Time: 09/28/19 12:08 Prep Initial WL/Vol.: 25 mL Prep Extract Vol: 25 mL Result Qual 0.152 LOQ/CL 0.100 DL 0.0310 Units mg/L DE 1 Prep Batch: WXX13038 Prep Method: METHOD Prep Date/Time: 09/28/19 11:10 Prep Date/Time: 09/28/19 11:10 Prep Initial WL/Vol.: 6 mL Prep Extract Vol: 6 mL DE 1 West Potter Drive Anchorage, AK 95518 West Potter Drive Anchorage, AK 95518	0.100 U 0.200 0.0500 mg/L 1 Prep Batch: WXX13019 Prep Method: METHOD Prep Date/Time: 09/19/19/11:00 Prep Extract Vol: 10 mL Prep Extract Vol: 10 mL Prep Extract Vol: 10 mL Prep Batch: WXX13039 Prep Method: METHOD Prep Date/Time: 09/28/19/12:08 Prep Initial WL/Vol: 25 mL Prep Extract Vol: 25 mL Prep Extract Vol: 25 mL Prep Batch: WXX13038 Prep Method: METHOD Prep Date/Time: 09/28/19/11:10 Prep Extract Vol: 6 mL Pre

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Results of B1							
Client Sample ID: B1 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564003 Lab Project ID: 1195564	R M S	eceived D	Date: 09/19/1 Pate: 09/19/1 er (Surface, I	9 15:27	,		
Results by Microbiology Laboratory							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100m	<u>DF</u> IL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/19/19 17:06
Batch Information Analytical Batch: BTF17657 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/19/19 17:06 Container ID: 1195564003-A							

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Results of B1								
Client Sample ID: B1 Client Project ID: Wasilla WWTP .ab Sample ID: 1195564003 .ab Project ID: 1195564		Collection Date: 09/19/19 11:30 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department						Alloweble		
P <u>arameter</u> Vitrate-N Vitrite-N Fotal Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/19/19 22: 09/19/19 22: 09/19/19 22:	
Batch InformationAnalytical Batch: WIC5967Analytical Method: EPA 300.0Analyst: DMMAnalytical Date/Time: 09/19/19 22:31Container ID: 1195564003-B		F	Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 09/19/1 t./Vol.: 10 r				
P <u>arameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 15:	
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 15:29 Container ID: 1195564003-C		F	Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 09/28/1 t./Vol.: 25 r				
P <u>arameter</u> Ammonia-N	<u>Result Qual</u> 0.126	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/28/19 14:	
Batch Information								
Analytical Batch: WDA4653 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 09/28/19 14:32 Container ID: 1195564003-C		F	Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 09/28/1 t./Vol.: 6 m				

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Results of MW10 Client Sample ID: MW10 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564004 Lab Project ID: 1195564	R M S	Collection Date: 09/19/19 11:58 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory			_					
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 1.00 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100mL	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/19/19 17:06	
Batch Information Analytical Batch: BTF17657 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/19/19 17:06 Container ID: 1195564004-A								

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Results of MW10								
Client Sample ID: MW10 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564004 Lab Project ID: 1195564	Collection Date: 09/19/19 11:58 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Waters Department								
<u>Parameter</u> Nitrate-N Nitrite-N Fotal Nitrate/Nitrite-N	<u>Result Qual</u> 0.0650 J 0.100 U 0.0820 J	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/19/19 22:5 09/19/19 22:5 09/19/19 22:5	
Batch Information								
Analytical Batch: WIC5967 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/19/19 22:50 Container ID: 1195564004-B	Prep Batch: WXX13019 Prep Method: METHOD Prep Date/Time: 09/19/19 11:00 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL							
P <u>arameter</u> Fotal Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 15:3	
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 15:30 Container ID: 1195564004-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r				
P <u>arameter</u> Ammonia-N	<u>Result Qual</u> 0.0694 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/28/19 14:3	
Batch Information								
Analytical Batch: WDA4653 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 09/28/19 14:33 Container ID: 1195564004-C			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 09/28/1 t./Vol.: 6 m				

Print Date: 10/08/2019 4:24:16PM

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		ollection D	ate: 09/19/1	19 12:40)			
	Collection Date: 09/19/19 12:40 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
)						
<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/19/19 19:1		
Result Qual	LOQ/CL	DL	Units	DF	<u>Allowable</u> Limits	Date Analyze		
46	2.00	2.00				09/19/19 17:0		
Result Qual	LOQ/CL	DL	Units	DF	<u>Allowable</u> Limits	Date Analyze		
18	1	1				09/19/19 17:3		
727	1	1	MPN/100	Drr 1		09/19/19 17:3		
	2.00 U Result Qual 46 Result Qual 18	Result Qual LOQ/CL 2.00 U 2.00 Result Qual LOQ/CL 46 2.00 Result Qual LOQ/CL 2.00 2.00 Result Qual LOQ/CL 18 1	Result Qual LOQ/CL DL 2.00 U 2.00 DL 2.00 U 2.00 DL Result Qual LOQ/CL DL 2.00 2.00 DL Result Qual LOQ/CL DL 46 2.00 DL 2.00 DL 2.00	Result Qual LOQ/CL DL Units 2.00 U 2.00 DL Units Result Qual LOQ/CL DL Units 2.00 U 2.00 DL Units Result Qual LOQ/CL DL Units 46 2.00 DL Units Result Qual LOQ/CL DL Units 18 1 1 MPN/100	Result Qual LOQ/CL DL Units DE 2.00 U 2.00 2.00 mg/L 1 Result Qual LOQ/CL DL Units DE 46 2.00 2.00 Col/100mL 1 Result Qual LOQ/CL DL Units DE 18 1 1 MPN/100m1	Matrix: Water (Surface, Eff., Ground) Solids (%): Location: Result Qual 2.00 U LOQ/CL 2.00 DL 2.00 Units I DF I Allowable Limits Result Qual 46 LOQ/CL 2.00 DL 2.00 Units I DF I Allowable Limits Result Qual 46 LOQ/CL 2.00 DL 2.00 Units I DF I Allowable Limits Result Qual 46 LOQ/CL 2.00 DL 1 Units I DF I Allowable Limits		

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Results of SW2								
Client Sample ID: SW2 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564005 Lab Project ID: 1195564		Collection Date: 09/19/19 12:40 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department			_					
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 2.36 0.100 U 2.38	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/19/19 23:4 09/19/19 23:4 09/19/19 23:4	
Batch Information Analytical Batch: WIC5967 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/19/19 23:47 Container ID: 1195564005-B		F	Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 09/19/1 t./Vol.: 10 r				
Parameter Total Suspended Solids	<u>Result Qual</u> 1.13	<u>LOQ/CL</u> 1.03	<u>DL</u> 0.320	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/23/19 18:2	
Batch Information Analytical Batch: STS6493 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/23/19 18:27 Container ID: 1195564005-F								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.689 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 15:3	
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 15:31 Container ID: 1195564005-D		F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 09/28/1 t./Vol.: 25 r				
Parameter Ammonia-N	<u>Result Qual</u> 0.0938 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/28/19 14:3	

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Results of SW2							
Client Sample ID: SW2 Client Project ID: Wasilla WWTP ab Sample ID: 1195564005 ab Project ID: 1195564	Collection Date: 09/19/19 12:40 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department							
Batch Information							
Analytical Batch: WDA4653 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 09/28/19 14:38 Container ID: 1195564005-D			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD e: 09/28/1 ./Vol.: 6 m	19 11:10		
<u>'arameter</u> otal Phosphorus	<u>Result Qual</u> 0.0100 U	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/29/19 20:2
Batch Information							
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:21 Container ID: 1195564005-D			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 e: 09/29/1 ./Vol.: 25 i	0P-B,E 19 16:54 mL		

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Results of SW3							
Client Sample ID: SW3 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564006 Lab Project ID: 1195564		R M Se	eceived Da	Pate: 09/19/1 ate: 09/19/1 er (Surface, I	9 15:27		
Results by Microbiology Laboratory							
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/19/19 19:10
Batch Information Analytical Batch: BOD6432 Analytical Method: SM21 5210B Analyst: ACF Analytical Date/Time: 09/19/19 19:10 Container ID: 1195564006-E							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> TNTC	<u>LOQ/CL</u> 10.0	<u>DL</u> 10.0	<u>Units</u> col/100m	<u>DF</u> L 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/19/19 17:06
Batch Information Analytical Batch: BTF17657 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/19/19 17:06 Container ID: 1195564006-A							
Demonster	Describ	1.00/01	DI	1.1	DE	Allowable	Data Analyzari
<u>Parameter</u> E. Coli	Result Qual	LOQ/CL	<u>DL</u>	Units MDN/100	<u>DF</u>	<u>Limits</u>	Date Analyzed
-	>2420	10	10	MPN/100			09/19/19 17:37
Total Coliform	>2420	10	10	MPN/100	01.10		09/19/19 17:37
Batch Information Analytical Batch: BTF17656 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/19/19 17:37 Container ID: 1195564006-C							
Print Date: 10/08/2019 4:24:16PM						J flagging	g is activated
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Results of SW3								
Client Sample ID: SW3 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564006 Lab Project ID: 1195564		Collection Date: 09/19/19 12:58 Received Date: 09/19/19 15:27 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 13.3 0.100 U 13.3	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/20/19 00:0 09/20/19 00:0 09/20/19 00:0	
Batch Information Analytical Batch: WIC5967 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 00:06 Container ID: 1195564006-B			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 09/19/1 t./Vol.: 10 r				
Parameter Total Suspended Solids	<u>Result Qual</u> 12.5	<u>LOQ/CL</u> 1.03	<u>DL</u> 0.320	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/23/19 18:2	
Batch Information								
Analytical Batch: STS6493 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/23/19 18:27 Container ID: 1195564006-F								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 1.18	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 15:3	
Batch Information								
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 15:33 Container ID: 1195564006-D			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r				
Parameter Ammonia-N	<u>Result Qual</u> 0.143	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/28/19 14:4	

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Results of SW3 Client Sample ID: SW3 Client Project ID: Wasilla WWTP	ł	I	Collection Da Received Dat	e: 09/19/1	19 15:27	und)		
ab Sample ID: 1195564006 ab Project ID: 1195564		Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
Batch Information								
Analytical Batch: WDA4653 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 09/28/19 14:40 Container ID: 1195564006-D			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 6 m	9 11:10			
P <u>arameter</u> Total Phosphorus	<u>Result</u> Qual 2.57	<u>LOQ/CL</u> 0.200	<u>DL</u> 0.0500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzec</u> 10/07/19 16:0 ⁻	
Batch Information								
Analytical Batch: WDA4662 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 10/07/19 16:01 Container ID: 1195564006-D			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	SM21 450 ne: 10/07/1 t./Vol.: 2.5	9 14:06			

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Results of MW15									
Client Sample ID: MW15 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564007 Lab Project ID: 1195564		R M S	ollection Date: 09/19/19 13:35 eceived Date: 09/19/19 15:27 atrix: Water (Surface, Eff., Grou olids (%): ication:			7	und)		
Results by Microbiology Laboratory									
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 1.00 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100m	DF IL 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/19/19 17:06		
Batch Information Analytical Batch: BTF17657 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/19/19 17:06 Container ID: 1195564007-A									

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Results of MW15	ŀ						
Client Sample ID: MW15 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564007 Lab Project ID: 1195564		 	Collection Da Received Dat Matrix: Water Solids (%): Location:	te: 09/19/1	9 15:27	und)	
Results by Waters Department							
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyzer 09/20/19 00:2 09/20/19 00:2 09/20/19 00:2
Batch Information							
Analytical Batch: WIC5967 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 00:25 Container ID: 1195564007-B			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 09/19/1 t./Vol.: 10 n			
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 15:3
Batch Information							
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 15:36 Container ID: 1195564007-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 n			
						Allowable	
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.350	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	<u>Date Analyze</u> 09/28/19 14:4
Batch Information							
Analytical Batch: WDA4653 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 09/28/19 14:42 Container ID: 1195564007-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 6 m			

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Results of B4							
Client Sample ID: B4 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564008 Lab Project ID: 1195564		R M Se	eceived D	Date: 09/19/1 vate: 09/19/19 er (Surface, E	9 15:27	- ,	
Results by Microbiology Laboratory			-				
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 1.00 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100m	<u>DF</u> L 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/19/19 17:06
Batch Information Analytical Batch: BTF17657 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/19/19 17:06 Container ID: 1195564008-A							

Print Date: 10/08/2019 4:24:16PM

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Results of B4							
Client Sample ID: B4 Client Project ID: Wasilla WWTP Lab Sample ID: 1195564008 Lab Project ID: 1195564		R M S	ollection Da eceived Dat latrix: Water olids (%): ocation:	te: 09/19/1	9 15:27	und)	
Results by Waters Department						A 11	
Parameter Nitrate-N Nitrite-N Fotal Nitrate/Nitrite-N	<u>Result</u> Qual 1.41 0.100 U 1.41	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/20/19 00:4 09/20/19 00:4 09/20/19 00:4
Analytical Batch: WIC5967 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 00:44 Container ID: 1195564008-B			Prep Batch: M Prep Method: Prep Date/Tir Prep Initial W Prep Extract M	METHOD ne: 09/19/1 t./Vol.: 10 r			
<u>Parameter</u> Fotal Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 15:3
Batch InformationAnalytical Batch: WDA4654Analytical Method: SM21 4500-N DAnalyst: DMMAnalytical Date/Time: 09/29/19 15:38Container ID: 1195564008-C			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r			
Parameter Ammonia-N	<u>Result Qual</u> 0.0595 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/28/19 14:4
Batch Information Analytical Batch: WDA4653 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 09/28/19 14:43 Container ID: 1195564008-C			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W	WXX13038 METHOD ne: 09/28/1 t./Vol.: 6 m			
Container 12. 1190004000-C			Prep Extract \	VOI. UTIL			

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Method Blank]			
Blank ID: MB for HBN 17 Blank Lab ID: 1533150	99715 [BOD/6432]	Matrix	: Water (Su	rface, Eff., Ground)	
QC for Samples: 1195564001, 1195564005,	1195564006				
Results by SM21 5210B		·			
<u>Parameter</u> Biochemical Oxygen Dema	Results nd 2.00U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: BOD6 Analytical Method: SM2 Instrument: Analyst: ACF					
Analytical Date/Time: 9/	(19/2019 12:27:14PM				

Print Date: 10/08/2019 4:24:20PM

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ank Spike Summary
ank Spike ID: LCS for HBN 1195564 [BOD6432] ank Spike Lab ID: 1533151 ate Analyzed: 09/19/2019 12:27 Matrix: Water (Surface, Eff., Ground)
C for Samples: 1195564001, 1195564005, 1195564006
esults by SM21 5210B
Blank Spike (mg/L)
arameter Spike Result Rec (%) CL ochemical Oxygen Demand 198 229 116 * (84.6-115.4)
ochemical Oxygen Demand 198 229 116 * (84.6-115.4
atch Information
Analytical Batch: BOD6432 Analytical Method: SM21 5210B Instrument: Analyst: ACF
Date: 10:08/2019 4:24:24PM
200 West Potter Drive Anchorage, AK 95518

Method Blank Blank ID: MB for HBN Blank Lab ID: 1533248 QC for Samples: 1195564001, 119556400		Matri	x: Water (Surl	face, Eff., Ground)	
Results by SM21 9223 <u>Parameter</u> Total Coliform E. Coli	B <u>Results</u> 1U 1U	<u>LOQ/CL</u> 1 1	<u>DL</u> 1 1	<u>Units</u> MPN/100m MPN/100m	
Batch Information Analytical Batch: BTF Analytical Method: SM Instrument: Analyst: ACF Analytical Date/Time:					

Print Date: 10/08/2019 4:24:27PM

Method Blank					
	1799740 [BTF/17657] 0	9740 [BTF/17657] Matrix: Water (Surface, Eff., Ground)			
QC for Samples: 1195564001, 11955640	02, 1195564003, 1195564004, 1195	564005, 1195564006	6, 1195564007,	1195564008	
Results by SM21 9222	2D -				
Parameter Fecal Coliform	<u>Results</u> 1.00U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100mL	
Batch Information					
Analytical Batch: BT Analytical Method: S Instrument: Analyst: ACF Analytical Date/Time					

Print Date: 10/08/2019 4:24:34PM

Method Blank					
Blank ID: MB for HBN 179 Blank Lab ID: 1533855	9878 [STS/6493]	Matrix	k: Water (Surfa	ce, Eff., Ground)	
QC for Samples: 1195564001, 1195564005, 1	195564006				
Results by SM21 2540D]			
Parameter Total Suspended Solids	<u>Results</u> 0.500U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: STS649 Analytical Method: SM21 Instrument: Analyst: EWW					

Print Date: 10/08/2019 4:24:40PM

Duplicate Sample Summary					
Original Sample ID: 1195597 Duplicate Sample ID: 15338				09/23/2019 18:27 Surface, Eff., Grou	nd)
QC for Samples:					
1195564001, 1195564005, 1	195564006				
Results by SM21 2540D					
NAME	<u>Original</u>	Duplicate	<u>Units</u>	<u>RPD (%)</u>	RPD CL
Total Suspended Solids	1870	1920	mg/L	2.60	(< 5)
Batch Information					
Analytical Batch: STS6493 Analytical Method: SM21 254 Instrument: Analyst: EWW	0D				

Print Date: 10/08/2019 4:24:42PM



Blank Spike Summary Blank Spike ID: LCS for HB Blank Spike Lab ID: 153385 Date Analyzed: 09/23/201	56	[STS6493]		[ST Spi	S6493] ke Duplica	te Lab ID:	D for HBN 1 1533857 Eff., Ground		
2C for Samples: 1195564001, 1195564005, 1195564006									
Results by SM21 2540D									
_		Blank Spike			Spike Duplic				
<u>Parameter</u> Fotal Suspended Solids	<u>Spike</u> 25	<u>Result</u> 24.6	<u>Rec (%)</u> 98	<u>Spike</u> 25	<u>Result</u> 24.7	<u>Rec (%)</u> 99	<u>CL</u> (75-125)	<u>RPD (%)</u> 0.41	<u>RPD CL</u> (< 5)
Batch Information									
Analytical Batch: STS6493 Analytical Method: SM21 25 Instrument:	40D								
Analyst: EWW									

SGS North America Inc.

Method Blank

Blank ID: MB for HBN 1799847 [WXX/13019] Blank Lab ID: 1533708 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195564001, 1195564002, 1195564003, 1195564004, 1195564005, 1195564006, 1195564007, 1195564008

Results by EPA 300.0				
Parameter	Results	LOQ/CL	<u>DL</u>	<u>Units</u>
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L
Analytical Batch: WIC59 Analytical Method: EPA Instrument: 930 Metrohi Analyst: DMM	300.0	Prep Me Prep Da Prep Ini	atch: WXX13019 ethod: METHOD ate/Time: 9/19/20 tial Wt./Vol.: 10 i tract Vol: 10 mL	019 11:00:00AM mL

Print Date: 10/08/2019 4:24:47PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195564 [WXX13019] Blank Spike Lab ID: 1533709 Date Analyzed: 09/19/2019 13:06

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195564001, 1195564002, 1195564003, 1195564004, 1195564005, 1195564006, 1195564007, 1195564008

		Blank Spike	e (mg/L)	
<u>arameter</u>	Spike	Result	<u>Rec (%)</u>	CL
itrate-N	5	4.77	95	(90-110)
litrite-N	5	4.89	98	(90-110)
	10	0.00		
Total Nitrate/Nitrite-N Batch Information	10	9.66	97	(90-110)
Batch Information Analytical Batch: WIC596 Analytical Method: EPA 3	7 00.0		97	Prep Batch: WXX13019 Prep Method: METHOD
Batch Information Analytical Batch: WIC596	7 00.0		97	Prep Batch: WXX13019

Print Date: 10/08/2019 4:24:51PM

SGS										
Matrix Spike Summary Original Sample ID: 153 MS Sample ID: 15337 MSD Sample ID: QC for Samples: 1195 1195	64003, 119	Analysis Date: 09/19/2019 21:34 Analysis Date: 09/19/2019 21:53 Analysis Date: Matrix: Water (Surface, Eff., Ground) 003, 1195564004, 1195564005, 1195564006, 1195564007,								
Results by EPA 300.0		Ma	trix Spike (ma/L)	Spik	e Duplicate				
Parameter	<u>Sample</u> 0.100U	<u>Spike</u> 5.00	<u>Result</u> 4.59	<u>Rec (%)</u> 92	<u>Spike</u>	<u>Result</u>	Rec (%)	<u>CL</u> 90-110	<u>RPD (%)</u>	<u>RPD C</u>
Nitrate-N Nitrite-N	0.100U	5.00	4.93	99				90-110		

Print Date: 10/08/2019 4:24:53PM

SGS North America Inc.

SGS										
Matrix Spike Summary										
Original Sample ID: 1533712 MS Sample ID: 1533713 MS MSD Sample ID:					Analysis Analysis	Date: 09 Date:	9/20/2019 9/20/2019 urface, Eff.	1:03)	
QC for Samples: 1195564	4001, 11955640	02. 119556	54003, 119	5564004, 11	95564005	5, 1195564	1006, 11955	64007,		
1195564 Results by EPA 300.0					0.11		(
119556₄ ► Results by EPA 300.0	4008	Ма	trix Spike ((mg/L)		Duplicate				
1195564 Results by EPA 300.0	4008 <u>Sample</u>	Ma <u>Spike</u>	trix Spike (<u>Result</u>	'mg/L) <u>Rec (%)</u>	Spike <u>Spike</u>	Duplicate	e (mg/L) <u>Rec (%)</u>	<u>CL</u> 90-110	<u>RPD (%)</u>	RPD C
119556₄ ► Results by EPA 300.0	4008	Ма	trix Spike ((mg/L)				<u>CL</u> 90-110 90-110	<u>RPD (%)</u>	RPD C
Results by EPA 300.0 Parameter Nitrate-N	4008 <u>Sample</u> 1.41	Ma <u>Spike</u> 5.00	trix Spike (<u>Result</u> 6.04	(mg/L) <u>Rec (%)</u> 93				90-110	<u>RPD (%)</u>	RPD C

	195564003, 1195564004, 119	5564005, 1195564006	6, 1195564007, 1 ⁻	195564008	
Results by SM21 4500-NH	12.0				
	13 G				
<u>Parameter</u> Ammonia-N	<u>Results</u> 0.0517J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: WDA46 Analytical Method: SM21 Instrument: Discrete Ana Analyst: DMM Analytical Date/Time: 9/2	4500-NH3 G Iyzer 2	Prep Me Prep Da Prep Ini	tch: WXX13038 ethod: METHOD te/Time: 9/28/20 tial Wt./Vol.: 6 m tract Vol: 6 mL	19 11:10:00AM	

Print Date: 10/08/2019 4:24:56PM



Blank Spike Summary									
Blank Spike ID: LCS for Hl Blank Spike Lab ID: 15351 Date Analyzed: 09/28/20	13	WXX1303	38]	[ŴX	(X13038]	ite ID: LCS ite Lab ID:	D for HBN 1 1535114	195564	
							Eff., Ground)	
QC for Samples: 11955 11955	64001, 1195564 64008	4002, 119	5564003, 119	95564004,	119556400	95, 11955640	006, 1195564	007,	
Results by SM21 4500-NH	3 G								
		Blank Spike				ate (mg/L)			
<u>Parameter</u> Ammonia-N	<u>Spike</u> 1	<u>Result</u> 1.13	<u>Rec (%)</u> 113	<u>Spike</u> 1	<u>Result</u> 1.03	<u>Rec (%)</u> 103	<u>CL</u> (75-125)	<u>RPD (%)</u> 9.30	<u>RPD CL</u> (< 25)
	·	1.10	110		1.00	100	(10120)	0.00	(*20)
Batch Information									
Analytical Batch: WDA4653					Batch: W				
Analytical Method: SM21 4 Instrument: Discrete Analy					Method: I Date/Time	METHOD e: 09/28/201	9 11:10		
Analyst: DMM				Spik	e Init Wt./V	/ol.: 1 mg/L	Extract Vol:	6 mL	
				Dup	e Init Wt./V	ol.: 1 mg/L	Extract Vol:	6 mL	
nt Date: 10/08/2019 4:24:59PM									



Original Sample ID: 11954 MS Sample ID: 1535115 MSD Sample ID: 153511	MS				Analysis Analysis	Date: 09 Date: 09	9/28/2019 9/28/2019 9/28/2019 9/28/2019 urface, Eff.	15:00 15:02)	
QC for Samples: 1195564 1195564	4001, 11955640 4008	02, 119556	64003, 119							
Results by SM21 4500-NH	13 G				0.1		(
<u>'arameter</u> mmonia-N	<u>Sample</u> 0.134	Ma <u>Spike</u> 1.00	trix Spike (<u>Result</u> 1.26	mg/L) <u>Rec (%)</u> 112	Spike 1.00	e Duplicate <u>Result</u> 1.29	e (mg/L) <u>Rec (%)</u> 116	<u>CL</u> 75-125	<u>RPD (%)</u> 2.90	<u>RPD CL</u> (< 25)
Batch Information Analytical Batch: WDA46 Analytical Method: SM21 Instrument: Discrete Anal Analyst: DMM Analytical Date/Time: 9/2	4500-NH3 G yzer 2	ЭРМ		Prep Prep Prep	Method: Date/Tin Initial Wt		a by SM21 4 019 11:10:0 00mL		• (VV)	

Print Date: 10/08/2019 4:25:01PM

Blank Lab ID: 1535138 QC for Samples: 1195564001, 1195564002, 1	195564003, 1195564004, 119556	34005, 1195564006	6, 1195564007, 1	195564008
Results by SM21 4500-N	D –			
<u>Parameter</u>	<u>Results</u>	LOQ/CL	DL	<u>Units</u>
Total Kjeldahl Nitrogen	0.500U	1.00	0.310	mg/L
atch Information				
Analytical Batch: WDA46			itch: WXX13039	
Analytical Method: SM21			ethod: METHOD	
Instrument: Discrete Ana Analyst: DMM	ilyzer z		tial Wt./Vol.: 25	019 12:08:00PM ml
	29/2019 3:05:41PM		tract Vol: 25 mL	

Print Date: 10/08/2019 4:25:03PM



Blank Spike Summary								
Blank Spike ID: LCS for HE Blank Spike Lab ID: 15351 Date Analyzed: 09/29/207	39	39]	[WX] Spik	X13039] e Duplica	te Lab ID:	D for HBN 1 1535140 Eff., Ground		
QC for Samples: 119556 119556	64001, 1195564002, 119 64008	95564003, 119	95564004, 1	19556400	5, 1195564	006, 1195564	007,	
Results by SM21 4500-N D)							
	Blank Spik	ke (mg/L)	Sp	oike Duplic	ate (mg/L)			
Parameter	Spike Result	<u>Rec (%)</u>	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Kjeldahl Nitrogen	4 4.44	111	4	4.20	105	(75-125)	5.60	(< 25)
Batch Information								
Analytical Batch: WDA4654 Analytical Method: SM21 4 Instrument: Discrete Analy Analyst: DMM	500-N D		Prep Prep Spike	e Init Wt./V	NETHOD e: 09/28/201 ol.: 4 mg/L	9 12:08 Extract Vol: Extract Vol:		
int Date: 10/08/2019 4:25:06PM								



Total Kjeldahl Nitrogen 1.66 4.00 6.26 115 4.00 6.69 126 * 75-125 6.70 (< 2	MS Sample ID: 1535141 MS Analysis Date: 09/29/2019 15:12 MSD Sample ID: 1535142 MSD Analysis Date: 09/29/2019 15:13 MSD Samples: 1195564001, 1195564002, 1195564003, 1195564004, 1195564005, 1195564006, 1195564007, 1195564007, 1195564008 Results by SM21 4500-N D Matrix Spike (mg/L) Matrix Spike (mg/L) Spike Duplicate (mg/L) arameter Sample total Kjeldahl Nitrogen 1.66 4.00 6.26 115 4.00 6.69 126 * 75-125 6.70 6.70 (< 25) Batch Information Analytical Batch: WDA4654 Prep Batch: WXX13039 Analytical Method: SM21 4500-N D Prep Method: Distillation TKN by Phenate (W) Instrument: Discrete Analyzer 2 Prep Date/Time: 9/28/2019 12:08:00PM	Matrix Spike Summary										
1195564008 Results by SM21 4500-N D Matrix Spike (mg/L) Spike Duplicate (mg/L) Parameter Sample Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPI Total Kjeldahl Nitrogen 1.66 4.00 6.26 115 4.00 6.69 126 * 75-125 6.70 (< 2 Batch Information Analytical Batch: WDA4654 Prep Batch: WXX13039 Prep Method: Distillation TKN by Phenate (W) Prep Method: Distillation TKN by Phenate (W) Instrument: Discrete Analyzer 2 Analyst: DMM Prep Initial Wt./Vol.: 25.00mL	1195564008 Results by SM21 4500-N D Matrix Spike (mg/L) Sample Spike Result Rec (%) CL RPD (%) RPD (CL Batch Information Prep Batch: WXX13039 Prep Date/Time: 9/28/2019 12:08:00PM Prep Date/Time: 9/28/2019 12:08:00PM Prep Date/Time: 9/28/2019 12:08:00PM Prep Initial Wt./Vol.: 25.00mL <th>MS Sample ID: 1535141</th> <th>MS</th> <th></th> <th></th> <th></th> <th>Analysis Analysis</th> <th>s Date: 0 s Date: 0</th> <th>9/29/2019 9/29/2019</th> <th>15:12 15:13</th> <th>)</th> <th></th>	MS Sample ID: 1535141	MS				Analysis Analysis	s Date: 0 s Date: 0	9/29/2019 9/29/2019	15:12 15:13)	
Matrix Spike (mg/L) Spike Duplicate (mg/L) Parameter Sample Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) R	Matrix Spike (mg/L) Spike Duplicate (mg/L) arameter Sample Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL otal Kjeldahl Nitrogen 1.66 4.00 6.26 115 4.00 6.69 126 * 75-125 6.70 (< 25) Batch Information Analytical Batch: WDA4654 Prep Batch: WXX13039 Analytical Method: SM21 4500-N D Prep Method: Distillation TKN by Phenate (W) Instrument: Discrete Analyzer 2 Prep Date/Time: 9/28/2019 12:08:00PM Analyst: DMM Prep Initial Wt./vol.: 25.00mL			02, 119556	64003, 119	5564004, 11	9556400	5, 119556	4006, 11955	64007,		
Parameter Sample Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) Result	Sample Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL tal Kjeldahl Nitrogen 1.66 4.00 6.26 115 4.00 6.69 126 75-125 6.70 (< 25) Batch Information Analytical Batch: WDA4654 Prep Batch: WXX13039 Analytical Method: SM21 4500-N D Prep Method: Distillation TKN by Phenate (W) Instrument: Discrete Analyzer 2 Prep Date/Time: 9/28/2019 12:08:00PM Prep Initial Wt./Vol.: 25.00mL	Results by SM21 4500-N	D									
Total Kjeldahl Nitrogen 1.66 4.00 6.26 115 4.00 6.69 126 * 75-125 6.70 (< 2	Analytical Batch:WDA4654Prep Batch:WXX13039Analytical Method:SM21 4500-N DPrep Method:Distillation TKN by Phenate (W)Instrument:Discrete Analyzer 2Prep Date/Time:9/28/2019Analyst:DMMPrep Initial Wt./Vol.:25.00mL			Ma	trix Spike (mg/L)	Spik	e Duplicat	e (mg/L)			
Analytical Batch: WDA4654Prep Batch: WXX13039Analytical Method: SM21 4500-N DPrep Method: Distillation TKN by Phenate (W)Instrument: Discrete Analyzer 2Prep Date/Time: 9/28/2019 12:08:00PMAnalyst: DMMPrep Initial Wt./Vol.: 25.00mL	Analytical Batch: WDA4654Prep Batch: WXX13039Analytical Method: SM21 4500-N DPrep Method: Distillation TKN by Phenate (W)Instrument: Discrete Analyzer 2Prep Date/Time: 9/28/2019 12:08:00PMAnalyst: DMMPrep Initial Wt./Vol.: 25.00mL	<u>Parameter</u> Total Kjeldahl Nitrogen										
Analytical Method:SM21 4500-N DPrep Method:Distillation TKN by Phenate (W)Instrument:Discrete Analyzer 2Prep Date/Time:9/28/201912:08:00PMAnalyst:DMMPrep Initial Wt./Vol.:25.00mL	Analytical Method:SM21 4500-N DPrep Method:Distillation TKN by Phenate (W)Instrument:Discrete Analyzer 2Prep Date/Time:9/28/201912:08:00PMAnalyst:DMMPrep Initial Wt./Vol.:25.00mL	Batch Information										
Analytical Date/Time: 9/29/2019 3:12:13PM Prep Extract Vol: 25.00mL		Analytical Method: SM21 Instrument: Discrete Ana Analyst: DMM	1 4500-N D alyzer 2	PM		Prep Prep Prep	Method: Date/Tin Initial W	Distillatio ne: 9/28/2 t./Vol.: 25	n TKN by Pl 2019 12:08:0 .00mL)	

Print Date: 10/08/2019 4:25:08PM

Method Blank Blank ID: MB for HBN 18	300163 [WXX/13043]	Matrix	: Water (Surfac	e, Eff., Ground)	
Blank Lab ID: 1535270 QC for Samples: 1195564001, 1195564005					
Results by SM21 4500P	-B,E				
<u>Parameter</u> Total Phosphorus	<u>Results</u> 0.0100U	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: WDA4 Analytical Method: SM2 Instrument: Discrete Ar Analyst: EWW Analytical Date/Time: 9	21 4500P-B,E halyzer 2	Prep Me Prep Da Prep Init	tch: WXX13043 tthod: SM21 450 te/Time: 9/29/20 ial Wt./Vol.: 25 n tract Vol: 25 mL	19 4:54:00PM	

Print Date: 10/08/2019 4:25:10PM



9 20:04			Spi	ke Duplica	ate Lab ID:	1535272		
			N 4 - 4				、	
			Ma	rix: vvate	r (Surface,	Eff., Ground)	
4001, 119556	54005							
_		_						
						CI	RPD (%)	RPD CL
0.2	0.191	<u>96</u>	0.2	0.187	<u>94</u>		2.10	(< 25)
						× ,		× ,
.01 2							'ol: 25 mL	
			Dup	e Init Wt./V	/ol.: 0.2 mg	L Extract Vo	ol: 25 mL	
	Spike	Blank Spike <u>Spike</u> <u>Result</u> 0.2 0.191 00P-B,E	Blank Spike (mg/L) <u>Spike Result Rec (%)</u> 0.2 0.191 96 00P-B,E	Blank Spike (mg/L) S <u>Spike Result Rec (%)</u> Spike 0.2 0.191 96 0.2 Prep 00P-B,E Prep Prep Spike	Blank Spike (mg/L) Spike Duplio Spike Result Rec (%) Spike Result 0.2 0.191 96 0.2 0.187 Prep Batch: W Prep Batch: W Prep Method: Prep Date/Tim Spike Init Wt./N	Blank Spike (mg/L) Spike Duplicate (mg/L) Spike Result Rec (%) Spike Result Rec (%) 0.2 0.191 96 0.2 0.187 94 Prep Batch: WXX13043 00P-B,E Prep Date/Time: 09/29/201 rer 2 Spike Init Wt./Vol.: 0.2 mg	Blank Spike (mg/L) Spike Duplicate (mg/L) Spike Result Rec (%) Spike Result Rec (%) CL 0.2 0.191 96 0.2 0.187 94 (75-125) Prep Batch: WXX13043 00P-B,E Prep Method: SM21 4500P-B,E rep Date/Time: 09/29/2019 16:54 Spike Init Wt./Vol.: 0.2 mg/L Extract V	Blank Spike (mg/L) Spike Duplicate (mg/L) Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) 0.2 0.191 96 0.2 0.187 94 (75-125) 2.10 Prep Batch: WXX13043 Prep Method: SM21 4500P-B,E

Print Date: 10/08/2019 4:25:15PM



Matrix Spike Summary

Original Sample ID: 1195480002 MS Sample ID: 1535273 MS MSD Sample ID: 1535274 MSD Analysis Date: 09/29/2019 20:09 Analysis Date: 09/29/2019 20:10 Analysis Date: 09/29/2019 20:11 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195564001, 1195564005

		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> Total Phosphorus	<u>Sample</u> 0.0200U	<u>Spike</u> 0.200	<u>Result</u> .212	<u>Rec (%)</u> 106	<u>Spike</u> 0.200	<u>Result</u> 0.213	<u>Rec (%)</u> 107	<u>CL</u> 75-125	<u>RPD (%)</u> 0.85	<u>RPD C</u> (< 25)
Batch Information Analytical Batch: WDA465 Analytical Method: SM214 Instrument: Discrete Analy Analyst: EWW Analytical Date/Time: 9/29	4500P-B,E vzer 2	PM		Prep Prep Prep	Method: Date/Tim Initial Wt		sphorus (W 019 4:54:0 00mL	/		

Print Date: 10/08/2019 4:25:17PM

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Mathad Diaula					
Method Blank Blank ID: MB for HBN 18 Blank Lab ID: 1536869	300508 [WXX/13059]	Matrix	x: Water (Surfac	e, Eff., Ground)	
QC for Samples: 1195564006					
Results by SM21 4500P	-B,E				
<u>Parameter</u> Total Phosphorus	<u>Results</u> 0.0100U	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: WDA Analytical Method: SM2 Instrument: Discrete Ar Analyst: EWW Analytical Date/Time: 1	21 4500P-B,E nalyzer 2	Prep Me Prep Da Prep Ini	tch: WXX13059 ethod: SM21 450 ite/Time: 10/7/20 tial Wt./Vol.: 25 n tract Vol: 25 mL	19 2:06:00PM	



Blank Spike Summary Blank Spike ID: LCS for HE Blank Spike Lab ID: 15368 Date Analyzed: 10/07/201	70	[WXX1305	59]	[W) Spi	KX13059] ke Duplica	ate Lab ID:	D for HBN 1536871 Eff., Ground		
QC for Samples: 119556	4006								
Results by SM21 4500P-B,	E								
		Blank Spike			Spike Duplie	cate (mg/L)			
<u>Parameter</u> Total Phosphorus	<u>Spike</u> 0.2	<u>Result</u> 0.199	<u>Rec (%)</u> 99	<u>Spike</u> 0.2	<u>Result</u> 0.195	<u>Rec (%)</u> 98	<u>CL</u> (75-125)	<u>RPD (%)</u> 1.70	<u>RPD CL</u> (< 25)
Batch Information									
Analytical Batch: WDA4662 Analytical Method: SM2145 Instrument: Discrete Analyz Analyst: EWW	00P-B,E			Pre Pre Spil	p Date/Tim ke Init Wt./\	SM21 4500F e: 10/07/201 /ol.: 0.2 mg			

Print Date: 10/08/2019 4:25:22PM



-	MS Sample ID: 1536872 MS MSD Sample ID: 1536873 MSD				Analysis Date: 10/07/2019 16:03 Analysis Date: 10/07/2019 16:04 Analysis Date: 10/07/2019 16:05 Matrix: Water (Surface, Eff., Ground)							
QC for Samples: 1195				·								
Results by SM21 4500F	Р-В,Е	14-	tuiv Casiles (Creik	- Durlissta	· (mage)())					
<u>Parameter</u> Fotal Phosphorus	<u>Sample</u> 0.0380	<u>Spike</u> 0.200	trix Spike (i <u>Result</u> .244	<u>Rec (%)</u> 103	<u>Spike</u> 0.200	e Duplicate <u>Result</u> 0.238	<u>Rec (%)</u> 100	<u>CL</u> 75-125	<u>RPD (%)</u> 2.60	<u>RPD CL</u> (< 25)		
Batch Information												
Analytical Batch: WDA Analytical Method: SM						VXX13059) osphorus (W					
Instrument: Discrete A							019 2:06:0	/				
Analyst: EWW						./Vol.: 25.						
Analytical Date/Time:	0/7/2019 4:04:44	IPM		Prep	> Extract \	/ol: 25.00	mL					

Print Date: 10/08/2019 4:25:24PM





SGS North America Inc. **CHAIN OF CUSTODY RECORD**

Locations Nationwide

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Kentucky www.us.sas.com

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_	CONTACT: <	Jake Alward	DNE NO: 21	3-520	02	Sec	tion 3				4	Preser		£.				Page	of
ection .		DISILLA WW7 PPWS	JEC1/ JD/ MIT#:			# C		L	l		Nazsu	Nach	H2Do	lta SO					
	REPORTS TO	jale a	1411: 91Ward OTE #: . #: 704	stautec. 70c415	COM	O N T A I N	Type C = COMP G = GRAB MI = Multi	Q.	6	Nitrakhitrik		Guant)	-FN/MMManic/PP	MULLING					
	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	E R S	incre- mental Soils	7059	755	4N Z	Ð	TC (TFU	TFN	-				MARKS/ OC ID
	DAF	SWI	9/18/19	1046	Water	6	G	(l	1	١	((
	QAC	MW2B		115		3				1	(1					
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Section	QAC QAF	MUUID		1158		3			1		((1					
S.	QAF QAF	<u>SW2</u> NU3		1240		10			(<u> </u>	($\overline{)}$	$\overline{1}$						
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	AC	BY	V	1348	$\downarrow \psi$	Ъ	\checkmark			l	١			(
u																			
	11	\overline{X}																	
	Relinguished	ы Бу: (1)	Date	Time	Received By	: .				Secti	on 4	DOD	Projec	t? Yes	s No	Data	a Delive	erable Rec	uirements:
	The		9/19/19	1522						Coole	er ID:								
	Relinquished	By: (2)	Date	Time	Received By					Reques	sted Tu	irnarou	nd Tim	e and/c	or Spec	ial Inst	ruction	s:	
Section 5	V																		
Secti	Relinquished	By: (3)	Date	Time	Received By							20							
0,										Temp E	Blank °	c: <u> </u>	2°C	20	8	Cha	in of C	ustody Se	eal: (Circle)
	Relinquished	By: (4)	Date	Time	Received Fo	r Labora	atory By:			-		or Amb	oient []		INT	аст і	BROKEN	ABSENT
			9.19.99	15:27	9	555	7			(See	attach	ed Sam	ple Re	ceipt F	orm)	(See at	tached	Sample I	Receipt Form)
	1 200 W P	otter Drive Anchorage, AK 995	18 Tel: (907)	562-2343 Fa	x: (907) 561-5	301				http://w	ww.sgs	.com/te	rms-and	d-condit	tions		HD		

] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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000	e-Sam <u>p</u>	n <u>ple Receipt Form</u>										
SGS	SGS Workorder #:		19556	64		9 5 5 6	4					
Re	eview Criteria	Condition (Yes,	No, N/A	Exce	ptions No	oted below	•					
	of Custody / Temperature Requir	ements	Yes			pler hand carries/delive	ers.					
	Were Custody Seals intact? Note # & I											
	COC accompanied sa											
DOD: Were	e samples received in COC corresponding c											
	**Exemption permitted if c		cted <8 hours	ago, or for same	oles where ch	illing is not required						
Tempera	ature blank compliant* (i.e., 0-6 °C afte		-	1	@	5.0 °C Therm. ID:	D58					
			Cooler ID:		@	°C Therm. ID:						
If samples received without a	a temperature blank, the "cooler temperature" will	be	Cooler ID:		@	°C Therm. ID:						
	R TEMP" will be noted to the right. "ambient" or "o e noted if neither is available.	chilled"	Cooler ID:		@	°C Therm. ID:						
Will by			Cooler ID:		@	°C Therm. ID:						
*lf >	-6°C, were samples collected <8 hours	ago? Yes			Ű	9						
	,											
	If <0°C, were sample containers ice	free? N/A	ļ									
Note: Identify containers	received at non-compliant temperature form FS-0029 if more space is ne											
	Torrition of the space is no	seueu.										
Holding Time / [Documentation / Sample Condition Re	quirements	Note: Refer to f	form E-083 "Samp	le Guide" for sr	ecific holding times						
riolang rine / L	Were samples received within holding					come notaling times.						
Do samples match C	OC** (i.e.,sample IDs,dates/times colle	cted)? No	COC indicate	e 09/18 as date	of collection	in opposition to Co	ntainer					
	liffer <1hr, record details & login per CC		that State 09	/19, loggin per	container.							
***Note: If sample information on	containers differs from COC, SGS will default to	COC information										
Were analytical requests	s clear? (i.e., method is specified for an	alvses Yes										
	nultiple option for analysis (Ex: BTEX, N											
				***Exemption	permitted for I	metals (e.g,200.8/6020	DA).					
Were proper containe	ers (type/mass/volume/preservative***)	used? Yes	<u> </u>									
	,											
	Volatile / LL-Hg Requ	uirements										
Were Trip Blank	s (i.e., VOAs, LL-Hg) in cooler with san	nples? N/A										
Were all water VOA vi	ials free of headspace (i.e., bubbles ≤ 6	6mm)? N/A										
Were a	Il soil VOAs field extracted with MeOH-	+BFB? N/A										
Note to C	lient: Any "No", answer above indicates nor	n-compliance	with standard	procedures and	may impact	data quality.						
	Additional	l notes (if a	applicable):	•								



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> <u>Condition</u>
1195564001-A	Na2S2O3 for Chlorine Redu	ОК			
1195564001-B	No Preservative Required	OK			
1195564001-C	Na2S2O3 for Chlorine Redu	OK			
1195564001-D	H2SO4 to pH < 2	OK			
1195564001-E	No Preservative Required	OK			
1195564001-F	No Preservative Required	OK			
1195564002-A	Na2S2O3 for Chlorine Redu	OK			
1195564002-B	No Preservative Required	OK			
1195564002-C	H2SO4 to pH < 2	ОК			
1195564003-A	Na2S2O3 for Chlorine Redu	ОК			
1195564003-B	No Preservative Required	ОК			
1195564003-C	H2SO4 to pH < 2	ОК			
1195564004-A	Na2S2O3 for Chlorine Redu	ОК			
1195564004-B	No Preservative Required	OK			
1195564004-C	H2SO4 to pH < 2	OK			
1195564005-A	Na2S2O3 for Chlorine Redu	OK			
1195564005-В	No Preservative Required	OK			
1195564005-C	Na2S2O3 for Chlorine Redu	OK			
1195564005-D	H2SO4 to pH < 2	OK			
1195564005-E	No Preservative Required	OK			
1195564005-F	No Preservative Required	OK			
1195564006-A	Na2S2O3 for Chlorine Redu	OK			
1195564006-B	No Preservative Required	OK			
1195564006-C	Na2S2O3 for Chlorine Redu	OK			
1195564006-D	H2SO4 to pH < 2	OK			
1195564006-E	No Preservative Required	OK			
1195564006-F	No Preservative Required	OK			
1195564007-A	Na2S2O3 for Chlorine Redu	OK			
1195564007-B	No Preservative Required	OK			
1195564007-C	H2SO4 to pH < 2	OK			
1195564008-A	Na2S2O3 for Chlorine Redu	OK			
1195564008-B	No Preservative Required	OK			
1195564008-C	H2SO4 to pH < 2	ОК			

Container Id

Preservative

<u>Container</u> <u>Condition</u> <u>Container Id</u>

<u>Preservative</u>

Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

- OK The container was received at an acceptable pH for the analysis requested.
- BU The container was received with headspace greater than 6mm.
- DM The container was received damaged.
- FR The container was received frozen and not usable for Bacteria or BOD analyses.
- IC The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
- NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
- PA The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
- PH The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added. QN Insufficient sample quantity provided.



Laboratory Report of Analysis

To: Stantec Consulting Services Inc. 725 East Fireweed Lane Suite 200 Anchorage, AK 99503 (907)248-8883

Report Number: 1195592

Client Project: Wasilla WWTP

Dear John Marshall,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Justin Nelson Project Manager Justin.Nelson@sgs.com Date

Print Date: 10/08/2019 4:26:37PM

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Case Narrative

SGS Client: Stantec Consulting Services Inc. SGS Project: 1195592 Project Name/Site: Wasilla WWTP Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification, and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.
Sample summaries which i All DRO/RRO analyses are	nclude a result for "Total Solids" have already been adjusted for moisture content. i integrated per SOP.

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Note:

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	5	Sample Summary		
Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
B3	1195592001	09/20/2019	09/20/2019	Water (Surface, Eff., Ground)
MW6	1195592002	09/20/2019	09/20/2019	Water (Surface, Eff., Ground)
SW7	1195592003	09/20/2019	09/20/2019	Water (Surface, Eff., Ground)
SW6	1195592004	09/20/2019	09/20/2019	Water (Surface, Eff., Ground)
SW4	1195592005	09/20/2019	09/20/2019	Water (Surface, Eff., Ground)
SW5	1195592006	09/20/2019	09/20/2019	Water (Surface, Eff., Ground)
Method	Method Des	<u>cription</u>		
SM21 4500-NH3 G	Ammonia-N	(W) SM21 4500-N	NH3 G	
SM21 5210B	Biochemical	Oxygen Demand	SM21 5210B	
SM21 9222D	Fecal Colifo	rm (MF)		
EPA 300.0	Ion Chromat	tographic Analysis		
SM21 4500-N D	TKN by Phe	nate (W)		
SM21 9223B	Total Colifor	m P/A Quant Tray	,	
SM21 4500P-B,E	Total Phosp	horus (W)		
SM21 2540D	Total Suspe	nded Solids SM20	2540D	

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Detectable Results Summary

Client Sample ID: B3 Lab Sample ID: 1195592001	Parameter	Recult	Unite
•	<u>Parameter</u> Ammonia-N	<u>Result</u> 0.117	<u>Units</u> mg/L
Waters Department	Animonia-N	0.117	mg/∟
Client Sample ID: MW6			
Lab Sample ID: 1195592002	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Waters Department	Ammonia-N	0.128	mg/L
Client Sample ID: SW7			
Lab Sample ID: 1195592003	Parameter	Result	Units
Microbiology Laboratory	E. Coli	420	MPN/100mL
	Fecal Coliform	560	col/100mL
	Total Coliform	9800	MPN/100mL
Waters Department	Ammonia-N	0.0391J	mg/L
	Total Kjeldahl Nitrogen	0.525J	mg/L
	Total Phosphorus	0.0349	mg/L
	Total Suspended Solids	4.06	mg/L
Client Comple ID: CM/C	·		0
Client Sample ID: SW6			
Lab Sample ID: 1195592004	Parameter	<u>Result</u>	<u>Units</u>
Microbiology Laboratory	E. Coli	10	MPN/100mL
	Fecal Coliform Total Coliform	10	col/100mL
		1500	MPN/100mL
Waters Department	Ammonia-N	0.0371J	mg/L
	Nitrate-N	0.0800J	mg/L
	Total Kjeldahl Nitrogen	0.441J	mg/L
	Total Nitrate/Nitrite-N	0.0900J	mg/L
	Total Suspended Solids	0.619J	mg/L
Client Sample ID: SW4			
Lab Sample ID: 1195592005	<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Microbiology Laboratory	E. Coli	60	MPN/100mL
	Fecal Coliform	20	col/100mL
	Total Coliform	4610	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.437J	mg/L
	Total Suspended Solids	3.60	mg/L
Client Sample ID: SW5			
Lab Sample ID: 1195592006	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	4.59	mg/L
	Fecal Coliform	20	col/100mL
	Total Coliform	9800	MPN/100mL
Waters Department	Ammonia-N	0.0820J	mg/L
waters Department	Total Kjeldahl Nitrogen	0.663J	mg/L
		0.0365	
	Total Phosphorus	() () 365	mg/L

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Results of B3							
Client Sample ID: B3 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592001 Lab Project ID: 1195592		R M Se	eceived D	0ate: 09/20/19 ate: 09/20/19 er (Surface, E	14:05	-	
Results by Microbiology Laboratory							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 9.09 U	<u>LOQ/CL</u> 9.09	<u>DL</u> 9.09	<u>Units</u> col/100mL	<u>DF</u> . 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/20/19 16:00
Batch Information Analytical Batch: BTF17658 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/20/19 16:00 Container ID: 1195592001-A							

Print Date: 10/08/2019 4:26:53PM

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Results of B3										
Client Sample ID: B3 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592001 Lab Project ID: 1195592		Collection Date: 09/20/19 10:24 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:								
Results by Waters Department			_							
Parameter Vitrate-N Vitrite-N Fotal Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/20/19 19: 09/20/19 19: 09/20/19 19:			
Analytical Batch: WIC5968 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 19:55 Container ID: 1195592001-B			Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	METHOD me: 09/20/1 t./Vol.: 10 r	9 16:20					
P <u>arameter</u> ⁻ otal Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:3			
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:33 Container ID: 1195592001-C			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 09/28/1 t./Vol.: 25 r	9 12:08					
P <u>arameter</u> Ammonia-N	<u>Result Qual</u> 0.117	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/06/19 23: ⁷			
Batch InformationAnalytical Batch: WDA4663Analytical Method: SM21 4500-NH3 GAnalyst: EWWAnalytical Date/Time: 10/06/19 23:13Container ID: 1195592001-C			Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	METHOD me: 10/06/1 t./Vol.: 6 m						

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Client Sample ID: MW6 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592002 Lab Project ID: 1195592		R M S	eceived Da	0ate: 09/20/19 10:38 ate: 09/20/19 14:05 er (Surface, Eff., Gro		
Results by Microbiology Laboratory Parameter Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> DF col/100mL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/20/19 16:00
Batch Information Analytical Batch: BTF17658 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/20/19 16:00 Container ID: 1195592002-A						

Print Date: 10/08/2019 4:26:53PM

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	Collection Date: 09/20/19 10:35 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:								
		_							
<u>Result Qual</u> 0.100 U 0.100 U	<u>LOQ/CL</u> 0.200 0.200	<u>DL</u> 0.0500 0.0500	<u>Units</u> mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/20/19 20: ⁻ 09/20/19 20: ⁻			
0.100 U	0.200	0.0500	mg/L	1		09/20/19 20:1			
		Prep Method: Prep Date/Tin Prep Initial Wi	METHOD ne: 09/20/1 /Vol.: 10 r						
<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:3			
		Prep Method: Prep Date/Tin Prep Initial Wi	METHOD ne: 09/28/1 /Vol.: 25 r						
<u>Result Qual</u> 0.128	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/06/19 23:			
		Prep Method: Prep Date/Tin Prep Initial W	METHOD ne: 10/06/1 /Vol.: 6 m						
	0.100 U 0.100 U 0.100 U 0.100 U <u>Result Qual</u> 0.500 U	Result Qual LOQ/CL 0.100 U 0.200 0.100 U 1.00	Result Qual LOQ/CL DL 0.100 U 0.200 0.0500 Seguit Qual LOQ/CL DL 0.500 U 1.00 0.310 Result Qual LOQ/CL DL 0.500 U 1.00 0.310 Prep Batch: V Prep Method: Prep Date/Tin Prep Date/Tin Prep Date/Tin Prep Date/Tin Prep Method: Prep Date/Tin Prep Date/Tin Prep Initial Wi <t< td=""><td>Received Date: 09/20/1 Matrix: Water (Surface, Solids (%): Location: Result Qual LOQ/CL DL Units 0.100 U 0.200 0.0500 mg/L Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/1 Prep Date/Time: 09/20/1 Prep Date/Time: 09/20/1 Prep Extract Vol: 10 mL Result Qual LOQ/CL DL Units 0.500 U 1.00 0.310 mg/L Prep Batch: WXX13040 Prep Date/Time: 09/28/1 Prep Date/Time: 09/28/1 Prep Date/Time: 09/28/1 Prep Date/Time: 0.100 0.0310 mg/L Result Qual LOQ/CL DL Units 0.128 0.100 0.0310 mg/L Prep Extract Vol: 25 mL Prep Method: METHOD Prep Method: METHOD <t< td=""><td>Matrix: Water (Surface, Eff., Grou Solids (%): Location: Result Qual LOQ/CL 0.200 DL 0.0500 Units mg/L DF 1 0.100 U 0.200 0.0500 mg/L 1 Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/19 16:20 Prep Initial WL/Vol: 10 mL Pfe Result Qual LOQ/CL 1.00 DL 0.310 Units mg/L DF 1 Prep Batch: WXX13040 Prep Method: METHOD Prep Date/Time: 09/28/19 12:08 Prep Initial WL/Vol: 25 mL Pfe D1 Result Qual 0.128 LOQ/CL 0.100 DL 0.0310 Units mg/L DF 1 Prep Batch: WXX13060 Prep Method: METHOD Prep Date/Time: 10/06/19 18:00 Prep Method: METHOD Prep Initial WL/Vol.: 6 mL Prep Initial WL/Vol.: 6 mL</td><td>Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location: Result Qual LOQ/CL 0.200 DL 0.200 Units 0.500 DE mg/L Allowable Limits 0.100 U 0.200 0.0500 mg/L 1 Imits 0.100 U 0.200 0.0500 mg/L 1 Imits 0.100 U 0.200 0.0500 mg/L 1 Imits Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/19 16:20 Prep Initial Wt./Vol.: 10 mL Imits Result Qual LOQ/CL DL Units DE Allowable Limits Not Doub 1.00 D.310 mg/L 1 Allowable Limits Prep Batch: WXX13040 Prep Date/Time: 09/20/19 12:08 Prep Date/Time: 09/20/19 12:08 Prep Initial Wt./Vol:: 25 mL Prep Initial Wt./Vol:: 25 mL Prep Date/Time: 09/20/19 12:08 Prep Date/Time: 00/20/10 DL Units DE Allowable Limits No.128 LOQ/CL DL Units DE Allowable Limits Prep Date/Time: 00/20/19 18:00 Prep Date/Time: 00/20/19 18:00 Prep Date/Time: 10/06/19 18:00 <t< td=""></t<></td></t<></td></t<>	Received Date: 09/20/1 Matrix: Water (Surface, Solids (%): Location: Result Qual LOQ/CL DL Units 0.100 U 0.200 0.0500 mg/L Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/1 Prep Date/Time: 09/20/1 Prep Date/Time: 09/20/1 Prep Extract Vol: 10 mL Result Qual LOQ/CL DL Units 0.500 U 1.00 0.310 mg/L Prep Batch: WXX13040 Prep Date/Time: 09/28/1 Prep Date/Time: 09/28/1 Prep Date/Time: 09/28/1 Prep Date/Time: 0.100 0.0310 mg/L Result Qual LOQ/CL DL Units 0.128 0.100 0.0310 mg/L Prep Extract Vol: 25 mL Prep Method: METHOD Prep Method: METHOD <t< td=""><td>Matrix: Water (Surface, Eff., Grou Solids (%): Location: Result Qual LOQ/CL 0.200 DL 0.0500 Units mg/L DF 1 0.100 U 0.200 0.0500 mg/L 1 Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/19 16:20 Prep Initial WL/Vol: 10 mL Pfe Result Qual LOQ/CL 1.00 DL 0.310 Units mg/L DF 1 Prep Batch: WXX13040 Prep Method: METHOD Prep Date/Time: 09/28/19 12:08 Prep Initial WL/Vol: 25 mL Pfe D1 Result Qual 0.128 LOQ/CL 0.100 DL 0.0310 Units mg/L DF 1 Prep Batch: WXX13060 Prep Method: METHOD Prep Date/Time: 10/06/19 18:00 Prep Method: METHOD Prep Initial WL/Vol.: 6 mL Prep Initial WL/Vol.: 6 mL</td><td>Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location: Result Qual LOQ/CL 0.200 DL 0.200 Units 0.500 DE mg/L Allowable Limits 0.100 U 0.200 0.0500 mg/L 1 Imits 0.100 U 0.200 0.0500 mg/L 1 Imits 0.100 U 0.200 0.0500 mg/L 1 Imits Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/19 16:20 Prep Initial Wt./Vol.: 10 mL Imits Result Qual LOQ/CL DL Units DE Allowable Limits Not Doub 1.00 D.310 mg/L 1 Allowable Limits Prep Batch: WXX13040 Prep Date/Time: 09/20/19 12:08 Prep Date/Time: 09/20/19 12:08 Prep Initial Wt./Vol:: 25 mL Prep Initial Wt./Vol:: 25 mL Prep Date/Time: 09/20/19 12:08 Prep Date/Time: 00/20/10 DL Units DE Allowable Limits No.128 LOQ/CL DL Units DE Allowable Limits Prep Date/Time: 00/20/19 18:00 Prep Date/Time: 00/20/19 18:00 Prep Date/Time: 10/06/19 18:00 <t< td=""></t<></td></t<>	Matrix: Water (Surface, Eff., Grou Solids (%): Location: Result Qual LOQ/CL 0.200 DL 0.0500 Units mg/L DF 1 0.100 U 0.200 0.0500 mg/L 1 Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/19 16:20 Prep Initial WL/Vol: 10 mL Pfe Result Qual LOQ/CL 1.00 DL 0.310 Units mg/L DF 1 Prep Batch: WXX13040 Prep Method: METHOD Prep Date/Time: 09/28/19 12:08 Prep Initial WL/Vol: 25 mL Pfe D1 Result Qual 0.128 LOQ/CL 0.100 DL 0.0310 Units mg/L DF 1 Prep Batch: WXX13060 Prep Method: METHOD Prep Date/Time: 10/06/19 18:00 Prep Method: METHOD Prep Initial WL/Vol.: 6 mL Prep Initial WL/Vol.: 6 mL	Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location: Result Qual LOQ/CL 0.200 DL 0.200 Units 0.500 DE mg/L Allowable Limits 0.100 U 0.200 0.0500 mg/L 1 Imits 0.100 U 0.200 0.0500 mg/L 1 Imits 0.100 U 0.200 0.0500 mg/L 1 Imits Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/19 16:20 Prep Initial Wt./Vol.: 10 mL Imits Result Qual LOQ/CL DL Units DE Allowable Limits Not Doub 1.00 D.310 mg/L 1 Allowable Limits Prep Batch: WXX13040 Prep Date/Time: 09/20/19 12:08 Prep Date/Time: 09/20/19 12:08 Prep Initial Wt./Vol:: 25 mL Prep Initial Wt./Vol:: 25 mL Prep Date/Time: 09/20/19 12:08 Prep Date/Time: 00/20/10 DL Units DE Allowable Limits No.128 LOQ/CL DL Units DE Allowable Limits Prep Date/Time: 00/20/19 18:00 Prep Date/Time: 00/20/19 18:00 Prep Date/Time: 10/06/19 18:00 <t< td=""></t<>			

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Client Sample ID: SW7 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592003 Lab Project ID: 1195592 Results by Microbiology Laboratory		Collection Date: 09/20/19 11:00 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/20/19 20:0	
Analytical Batch: BOD6433 Analytical Batch: BOD6433 Analytical Method: SM21 5210B Analyst: ACF Analytical Date/Time: 09/20/19 20:00 Container ID: 1195592003-E								
P <u>arameter</u> Fecal Coliform	<u>Result Qual</u> 560	<u>LOQ/CL</u> 10.0	<u>DL</u> 10.0	<u>Units</u> col/100mL	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/20/19 16:0	
Batch InformationAnalytical Batch: BTF17658Analytical Method: SM21 9222DAnalyst: ACFAnalytical Date/Time: 09/20/19 16:00Container ID: 1195592003-A								
<u>Parameter</u> E. Coli Fotal Coliform	<u>Result</u> Qual 420 9800	<u>LOQ/CL</u> 10 10	<u>DL</u> 10 10	<u>Units</u> MPN/100r MPN/100r		<u>Allowable</u> Limits	<u>Date Analyze</u> 09/20/19 16:0 09/20/19 16:0	
Batch Information								
Analytical Batch: BTF17661 Analytical Method: SM21 9223B Analyst: NRO Analytical Date/Time: 09/20/19 16:06 Container ID: 1195592003-D								

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		(Collection Da	te: 09/20/	19 11·00		
Client Sample ID: SW7 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592003 Lab Project ID: 1195592		Collection Date: 09/20/19 11:00 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Waters Department							
Parameter_	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	<u>Allowable</u> <u>Limits</u>	Date Analyze
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		09/20/19 20:3
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/20/19 20:3
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/20/19 20:3
Batch Information							
Analytical Batch: WIC5968 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 20:33 Container ID: 1195592003-B			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/20/1 t./Vol.: 10 r			
Parameter Total Suspended Solids	<u>Result Qual</u> 4.06	<u>LOQ/CL</u> 1.04	<u>DL</u> 0.323	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/23/19 18:2
Batch Information Analytical Batch: STS6493 Analytical Method: SM21 2540D Analyst: EWW							
Analytical Date/Time: 09/23/19 18:27 Container ID: 1195592003-F						Allowable	
Parameter	<u>Result Qual</u>	LOQ/CL	DL	<u>Units</u>	DF	Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.525 J	1.00	0.310	mg/L	1		09/29/19 16:3
, 0							
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:36 Container ID: 1195592003-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r	9 12:08		
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:36	<u>Result Qual</u>	LOQ/CL	Prep Method: Prep Date/Tin Prep Initial W	METHOD ne: 09/28/1 t./Vol.: 25 r	9 12:08	<u>Allowable</u> Limits	Date Analyzed

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Results of SW7	-							
Client Sample ID: SW7 Client Project ID: Wasilla WWTP ab Sample ID: 1195592003 ab Project ID: 1195592		Collection Date: 09/20/19 11:00 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
Batch Information								
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/06/19 23:20 Container ID: 1195592003-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 /Vol.: 6 m	9 18:00			
'arameter	Result Qual	LOQ/CL	DL	<u>Units</u>	<u>DF</u>	Allowable Limits	Date Analyzed	
otal Phosphorus	0.0349	0.0200	0.00500	mg/L	1		09/29/19 20:2:	
atch Information								
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:22 Container ID: 1195592003-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 i./Vol.: 25 r	9 16:54			

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Results of SW6 Client Sample ID: SW6 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592004 Lab Project ID: 1195592		R M S	eceived Da	ate: 09/20/ [/] ate: 09/20/1 er (Surface,	9 14:05		
Results by Microbiology Laboratory]				
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result</u> Qual 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/20/19 20:00
Batch Information Analytical Batch: BOD6433 Analytical Method: SM21 5210B Analyst: ACF Analytical Date/Time: 09/20/19 20:00 Container ID: 1195592004-E							
Parameter Fecal Coliform	<u>Result Qual</u> 10	<u>LOQ/CL</u> 10.0	<u>DL</u> 10.0	<u>Units</u> col/100m	<u>DF</u> nL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/20/19 16:00
Analytical Batch: BTF17658 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/20/19 16:00 Container ID: 1195592004-A							
<u>Parameter</u> E. Coli Total Coliform	<u>Result Qual</u> 10 1500	<u>LOQ/CL</u> 10 10	<u>DL</u> 10 10	<u>Units</u> MPN/100 MPN/100		<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/20/19 16:06 09/20/19 16:06
Batch Information Analytical Batch: BTF17661 Analytical Method: SM21 9223B Analyst: NRO Analytical Date/Time: 09/20/19 16:06 Container ID: 1195592004-D							

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Client Sample ID: SW6 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592004 Lab Project ID: 1195592	r		Collection Da Received Dat Matrix: Water Solids (%):	te: 09/20/	19 14:05		
			Location:				
Results by Waters Department						Allowable	
Parameter	<u>Result Qual</u>	LOQ/CL		<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyze
Nitrate-N	0.0800 J	0.200	0.0500	mg/L	1		09/20/19 20:5
Nitrite-N Total Nitrate/Nitrite-N	0.100 U 0.0900 J	0.200 0.200	0.0500 0.0500	mg/L mg/L	1 1		09/20/19 20:5 09/20/19 20:5
	0.0900 J	0.200	0.0500	mg/L	I		09/20/19 20.5
Batch Information							
Analytical Batch: WIC5968 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 20:52			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W	METHOD me: 09/20/1 t./Vol.: 10 r	19 16:20 mL		
Container ID: 1195592004-B			Prep Extract \	Vol: 10 mL			
						Allowable	
<u>Parameter</u> Total Suspended Solids	<u>Result Qual</u> 0.619 J	<u>LOQ/CL</u> 1.03	<u>DL</u> 0.320	<u>Units</u> mg/L	<u>DF</u> 1	Limits	<u>Date Analyze</u> 09/23/19 18:2
Batch Information							
Analytical Batch: STS6493 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/23/19 18:27 Container ID: 1195592004-F							
						Allowable	
Parameter Total Kieldebl Nitregen	<u>Result Qual</u> 0.441 J	LOQ/CL	<u>DL</u> 0.310	<u>Units</u>	<u>DF</u> 1	<u>Limits</u>	Date Analyze
Total Kjeldahl Nitrogen	0.441 J	1.00	0.310	mg/L	1		09/29/19 16:3
Batch Information							
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:39			Prep Batch: Prep Method: Prep Date/Tin Prep Initial W Prep Extract	METHOD me: 09/28/1 t./Vol.: 25 r	19 12:08 mL		
Container ID: 1195592004-C							
5						<u>Allowable</u> Limits	Date Analyze
Container ID: 1195592004-C	Result Qual	LOQ/CL	DL	Units	DF		
5	<u>Result Qual</u> 0.0371 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	Linito	10/06/19 23:2

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Results of SW6					10 11 00		
Client Sample ID: SW6 Client Project ID: Wasilla WWTP ab Sample ID: 1195592004			Collection Dat Received Date Matrix: Water	e: 09/20/	19 14:05	und)	
ab Project ID: 1195592			Solids (%): Location:				
Results by Waters Department			_				
Batch Information							
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/06/19 23:21 Container ID: 1195592004-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD e: 10/06/1 ./Vol.: 6 m	9 18:00		
						Allowable	
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.0100 U	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	<u>Date Analyzed</u> 09/29/19 20:2
Batch Information							
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:23 Container ID: 1195592004-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 e: 09/29/1 ./Vol.: 25 i	0P-B,E 19 16:54 mL		

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Client Sample ID: SW4 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592005 Lab Project ID: 1195592		Collection Date: 09/20/19 12:00 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Microbiology Laboratory			_				
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/20/19 20:0
Batch Information							
Analytical Batch: BOD6433 Analytical Method: SM21 5210B Analyst: ACF Analytical Date/Time: 09/20/19 20:00 Container ID: 1195592005-E							
Parameter	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	<u>Allowable</u> Limits	Date Analyze
Fecal Coliform	20	<u>10.0</u>	<u>DL</u> 10.0	col/100m		Linits	09/20/19 16:
Batch Information							
Analytical Batch: BTF17658 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/20/19 16:00 Container ID: 1195592005-A							
Parameter	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	<u>Allowable</u> Limits	Date Analyze
E. Coli	60	10	<u>DL</u> 10	<u>01113</u> MPN/100		Linits	09/20/19 16:
Fotal Coliform	4610	10	10	MPN/100	n 10		09/20/19 16:
Batch Information							
Analytical Batch: BTF17661 Analytical Method: SM21 9223B Analyst: NRO Analytical Date/Time: 09/20/19 16:06 Container ID: 1195592005-D							

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Client Sample ID: SW4 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592005 Lab Project ID: 1195592		Collection Date: 09/20/19 12:00 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/20/19 21:5 09/20/19 21:5 09/20/19 21:5	
Datah Information								
Batch Information Analytical Batch: WIC5968 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 21:50 Container ID: 1195592005-B			Prep Batch: ^N Prep Method: Prep Date/Tir Prep Initial W Prep Extract ^N	METHOD me: 09/20/1 t./Vol.: 10 r	l9 16:20 mL			
Parameter Total Suspended Solids	<u>Result Qual</u> 3.60	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/23/19 18:2	
Batch Information Analytical Batch: STS6493 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/23/19 18:27 Container ID: 1195592005-F								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.437 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/29/19 16:4	
Batch Information								
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:41 Container ID: 1195592005-C			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 09/28/1 t./Vol.: 25 r	9 12:08			
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0500 U	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed	

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Results of SW4							
Client Sample ID: SW4 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592005 Lab Project ID: 1195592		 :	Collection Dat Received Date Matrix: Water Solids (%): Location:	e: 09/20/1	9 14:05	und)	
Results by Waters Department							
Batch Information							
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/06/19 23:23 Container ID: 1195592005-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 /Vol.: 6 m	9 18:00		
						Allowable	
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.0100 U	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	<u>Date Analyzed</u> 09/29/19 20:24
Batch Information							
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:24 Container ID: 1195592005-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 i./Vol.: 25 r	9 16:54		

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Results of SW5						
Client Sample ID: SW5 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592006 Lab Project ID: 1195592		R M S	eceived Da	ate: 09/20/ ate: 09/20/ er (Surface,	19 14:05	
Results by Microbiology Laboratory]			
Parameter	<u>Result Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	

Analytical Batch: BOD6433 Analytical Method: SM21 5210B Analyst: ACF Analytical Date/Time: 09/20/19 20:00 Container ID: 1195592006-E

<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 20	<u>LOQ/CL</u> 10.0	<u>DL</u> 10.0	<u>Units</u> DF col/100mL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/20/19 16:00
Batch Information						
Analytical Batch: BTF17658 Analytical Method: SM21 9222D Analyst: ACF Analytical Date/Time: 09/20/19 16:00 Container ID: 1195592006-A						
Parameter	Result Qual	LOQ/CL	DL	<u>Units DF</u>	<u>Allowable</u> Limits	Date Analyzed
E. Coli	10 U	10	10	MPN/100m 10		09/20/19 16:06
otal Coliform	9800	10	10	MPN/100m 10		09/20/19 16:00
Batch Information						
Analytical Batch: BTF17661 Analytical Method: SM21 9223B Analyst: NRO Analytical Date/Time: 09/20/19 16:06						

Print Date: 10/08/2019 4:26:53PM

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Allowable

Limits

Date Analyzed

09/20/19 20:00

Client Sample ID: SW5 Client Project ID: Wasilla WWTP Lab Sample ID: 1195592006 Lab Project ID: 1195592	Collection Date: 09/20/19 12:40 Received Date: 09/20/19 14:05 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department			_				
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/20/19 22:0 09/20/19 22:0 09/20/19 22:0
Batch Information							
Analytical Batch: WIC5968 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/20/19 22:09 Container ID: 1195592006-B		Prep Batch: WXX13033 Prep Method: METHOD Prep Date/Time: 09/20/19 16:20 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL					
Parameter Total Suspended Solids	<u>Result Qual</u> 36.5	<u>LOQ/CL</u> 1.01	<u>DL</u> 0.313	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/23/19 18:2
Batch Information Analytical Batch: STS6493 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/23/19 18:27 Container ID: 1195592006-F							
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.663 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:4
Batch Information							
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:42 Container ID: 1195592006-C		Prep Batch: WXX13040 Prep Method: METHOD Prep Date/Time: 09/28/19 12:08 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL					
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0820 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/06/19 23:2

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Results of SW5							
Client Sample ID: SW5 Client Project ID: Wasilla WWTP .ab Sample ID: 1195592006 .ab Project ID: 1195592			Collection Dat Received Date Matrix: Water Solids (%): Location:	e: 09/20/ [^]	19 14:05	und)	
Results by Waters Department							
Batch Information							
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/06/19 23:28 Container ID: 1195592006-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 /Vol.: 6 m	9 18:00		
						Allowable	
P <u>arameter</u> Total Phosphorus	<u>Result Qual</u> 0.0365	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	<u>Date Analyzec</u> 09/29/19 20:2
Batch Information							
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:25 Container ID: 1195592006-C			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 i./Vol.: 25 r	9 16:54		

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Method Blank		
Blank ID: MB for HBN 1799802 [BOD/6433] Blank Lab ID: 1533489	Matrix: Water (Surface, Eff., Ground)	
QC for Samples: 1195592003, 1195592004, 1195592005, 1195592006		
Results by SM21 5210B	j	
ParameterResultsBiochemical Oxygen Demand2.00U	<u>LOQ/CL</u> <u>DL</u> <u>Units</u> 2.00 2.00 mg/L	
Batch Information		
Analytical Batch: BOD6433 Analytical Method: SM21 5210B Instrument: Analyst: ACF Analytical Date/Time: 9/20/2019 8:00:25PM		

Print Date: 10/08/2019 4:26:56PM

lank Spike Summary				
lank Spike ID: LCS for HBN lank Spike Lab ID: 1533490 ate Analyzed: 09/20/2019	0	30D6433]	
			Matri	x: Water (Surface, Eff., Ground)
C for Samples: 1195592	.003, 1195592	2004, 1195	592005, 1195592006	
Results by SM21 5210B				
		lank Spike		
<u>arameter</u> ochemical Oxygen Demand	<u>Spike</u> 198	<u>Result</u> 210	<u>Rec (%)</u> 106	<u>CL</u> (84.6-115.4
benefitiear oxygen Demand	100	210	100	(04.0-110.4
atch Information				
Instrument: Analyst: ACF				

Print Date: 10/08/2019 4:27:00PM

Method Blank					
Blank ID: MB for HBN Blank Lab ID: 1533479		Matrix	x: Water (Surf	ace, Eff., Ground)	
QC for Samples: 1195592001, 119559200	02, 1195592003, 1195592004, 119	15592005, 1195592006	5		
Results by SM21 9222	D				
<u>Parameter</u> Fecal Coliform	<u>Results</u> 1.00U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100mL	
Batch Information					
Analytical Batch: BTF Analytical Method: Sl Instrument: Analyst: ACF Analytical Date/Time:					

Print Date: 10/08/2019 4:27:04PM

Method Blank					
Blank ID: MB for HBN Blank Lab ID: 1534689		Matrix	: Water (Surf	ace, Eff., Ground)	
QC for Samples: 1195592001, 119559200	02, 1195592003, 1195592004, 119	5592005, 1195592006			
Results by SM21 9222	D				
Parameter Fecal Coliform	<u>Results</u> 1.00U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100mL	
Batch Information					
Analytical Batch: BTF Analytical Method: Sl Instrument: Analyst: ACF Analytical Date/Time:					

lank Lab ID: 1533485 C for Samples:	1799800 [BTF/17661] 5 94, 1195592005, 1195592006	Maun	k: water (Sun	ace, Eff., Ground)
esults by SM21 9223				
<u>arameter</u> otal Coliform	<u>Results</u> 1U	LOQ/CL	DL 1	<u>Units</u> MPN/100m
Coli	10	1	1	MPN/100m
tch Information Analytical Batch: BTF Analytical Method: St Instrument: Analyst: NRO Analytical Date/Time:				

Print Date: 10/08/2019 4:27:10PM

Method Blank)			
Blank ID: MB for HBN 1799 Blank Lab ID: 1533855	9878 [STS/6493]	Matri	x: Water (Surfa	ace, Eff., Ground)	
QC for Samples: 1195592003, 1195592004, 11	195592005, 1195592006				
Results by SM21 2540D					
<u>Parameter</u> Total Suspended Solids	<u>Results</u> 0.500U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: STS6493 Analytical Method: SM213 Instrument: Analyst: EWW Analytical Date/Time: 9/23	2540D				

Print Date: 10/08/2019 4:27:17PM

ouplicate Sample Summary	/				
Driginal Sample ID: 119559 Duplicate Sample ID: 15338				09/23/2019 18:27 Surface, Eff., Grou	nd)
C for Samples:					
195592003, 1195592004, 1	195592005, 1195	592006			
esults by SM21 2540D					
AME	<u>Original</u>	Duplicate	<u>Units</u>	<u>RPD (%)</u>	RPD CL
otal Suspended Solids	1870	1920	mg/L	2.60	(< 5)
atch Information					
Analytical Batch: STS6493 Analytical Method: SM21 254 Instrument: Analyst: EWW	40D				

Print Date: 10/08/2019 4:27:18PM

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Blank Spike Summary Blank Spike ID: LCS for HB Blank Spike Lab ID: 153385 Date Analyzed: 09/23/2019	56	[STS6493	j]	[S] Sp	⁻ S6493] ike Duplica	ate Lab ID:	D for HBN 1 1533857 Eff., Ground		
QC for Samples: 119559	2003, 11955	92004, 119	5592005, 119	95592006					
Results by SM21 2540D									
		Blank Spik			Spike Duplic				
<u>Parameter</u> Total Suspended Solids	<u>Spike</u> 25	<u>Result</u> 24.6	<u>Rec (%)</u> 98	<u>Spike</u> 25	<u>Result</u> 24.7	<u>Rec (%)</u> 99	<u>CL</u> (75-125)	<u>RPD (%)</u> 0.41	<u>RPD CL</u> (< 5)
Batch Information							. ,		× ,
Analytical Batch: STS6493 Analytical Method: SM21 25 Instrument: Analyst: EWW	40D								

Method Blank

Blank ID: MB for HBN 1800121 [WXX/13033] Blank Lab ID: 1534935 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195592001, 1195592002, 1195592003, 1195592004, 1195592005, 1195592006

Results by EPA 300.0 LOQ/CL Parameter **Results** DL Units Nitrate-N 0.100U 0.200 0.0500 mg/L Nitrite-N 0.100U 0.200 0.0500 mg/L Total Nitrate/Nitrite-N 0.100U 0.200 0.0500 mg/L **Batch Information** Analytical Batch: WIC5968 Prep Batch: WXX13033 Analytical Method: EPA 300.0 Prep Method: METHOD Prep Date/Time: 9/20/2019 1:30:00PM Instrument: 930 Metrohm compact IC flex Analyst: DMM Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL Analytical Date/Time: 9/20/2019 2:32:44PM

Print Date: 10/08/2019 4:27:23PM

Blank Spike Summary

Analyst: DMM

Blank Spike ID: LCS for HBN 1195592 [WXX13033] Blank Spike Lab ID: 1534936 Date Analyzed: 09/20/2019 14:51

Matrix: Water (Surface, Eff., Ground)

Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL

Dupe Init Wt./Vol.: Extract Vol:

QC for Samples: 1195592001, 1195592002, 1195592003, 1195592004, 1195592005, 1195592006

Results by EPA 300.0				
		Blank Spike	e (mg/L)	
Parameter	Spike	Result	<u>Rec (%)</u>	<u>CL</u>
Nitrate-N	5	4.76	95	(90-110)
Nitrite-N	5	5.08	102	(90-110)
Total Nitrate/Nitrite-N	10	9.85	99	(90-110)
Batch Information				
Analytical Batch: WIC5968				Prep Batch: WXX13033
Analytical Method: EPA 300.0				Prep Method: METHOD
Instrument: 930 Metrohm con	npact IC fle	х		Prep Date/Time: 09/20/2019 13:30

Print Date: 10/08/2019 4:27:27PM

Matrix Spike Summary	1									
Original Sample ID: 153 MS Sample ID: 153493 MSD Sample ID:					Analysis Analysis	Date: 09 Date:	9/20/2019 9/20/2019 urface, Eff.	17:04		
QC for Samples: 1195	592001, 11955920	02, 11955§	92003, 119	5592004, 1 ⁻	19559200	5, 1195592	2006			
Results by EPA 300.0										
		Ma	trix Spike (ı	mg/L)	Spike	e Duplicate	e (mg/L)			
arameter	<u>Sample</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD
trate-N	0.482 0.200U	10.0 10.0	9.75 9.93	93 99				90-110 90-110		
trite-N										
Itrite-N Batch Information Analytical Batch: WIC5 Analytical Method: EP/ Instrument: 930 Metrol Analyst: DMM	A 300.0			Pre Pre	o Method: o Date/Tin		0 Extractio 019 1:30:0		iquids	

Matrix Spike Summary Original Sample ID: 1534939 MS Sample ID: 1534940 MS MSD Sample ID:					Analysis Analysis	Date: 09 Date:	9/20/2019 9/20/2019	19:36		
	92001, 11955920	02, 119559	92003, 119	5592004, 11		•	urface, Eff. 2006	, Grouna,)	
Results by EPA 300.0		Ма	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
a <u>rameter</u> trate-N trite-N	<u>Sample</u> 0.100U 0.100U	<u>Spike</u> 5.00 5.00	<u>Result</u> 4.7 5.36	<u>Rec (%)</u> 94 107	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>CL</u> 90-110 90-110	<u>RPD (%)</u>	<u>RPD (</u>
Instrument: 930 Metroh Analyst: DMM Analytical Date/Time: 9				Prep	Initial Wt	ne: 9/20/2 t./Vol.: 10 /ol: 10.00		0PM		

Method Blank		Matuit	· Matan (Ounf		
Blank Lab ID: 1535143	Blank ID: MB for HBN 1800146 [WXX/13040] Blank Lab ID: 1535143			ace, Eff., Ground)	
QC for Samples: 1195592001, 1195592002, 11955	92003, 1195592004, 119	5592005, 1195592006			
Results by SM21 4500-N D					
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Results</u> 0.500U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: WDA4654 Analytical Method: SM21 4500 Instrument: Discrete Analyzer Analyst: DMM Analytical Date/Time: 9/29/207	2	Prep Me Prep Dat Prep Init	tch: WXX13040 thod: METHOI te/Time: 9/28/2 ial Wt./Vol.: 25 ract Vol: 25 ml	2 2019 12:08:00PM mL	

Print Date: 10/08/2019 4:27:31PM

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Blank Spike Summary Blank Spike ID: LCS for HI Blank Spike Lab ID: 15351 Date Analyzed: 09/29/20 ⁻	44	40]	[W) Spi	(X13040] ke Duplica	te Lab ID:	D for HBN 1 1535145 Eff., Ground			
QC for Samples: 11955	92001, 119559	92002, 119	5592003, 119	95592004,	119559200	95, 11955920	006		
Results by SM21 4500-N D	•								
Parameter	Spike	Blank Spike <u>Result</u>	e (mg/L) <u>Rec (%)</u>	S <u>Spike</u>	pike Duplic	ate (mg/L) <u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Kjeldahl Nitrogen	4	4.25	106	<u>opike</u> 4	4.42	110	<u>02</u> (75-125)	3.90	(< 25)
Batch Information									
Analytical Batch: WDA4654 Analytical Method: SM21 4 Instrument: Discrete Analy Analyst: DMM	500-N D			Pre Pre Spił	ke Init Wt./V	METHOD e: 09/28/201 /ol.: 4 mg/L	9 12:08 Extract Vol: Extract Vol:		

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Matrix Spike Summary										
Original Sample ID: 1195 MS Sample ID: 1535146 MSD Sample ID: 153514			Analysis Analysis	Date: 09 Date: 09	9/29/2019 9/29/2019 9/29/2019 urface, Eff.	16:14 16:15	1			
QC for Samples: 119559	2001, 11955920	02, 119559	92003, 119	5592004, 11	9559200	5, 1195592	2006			
Results by SM21 4500-N	D									
Parameter	Sample	Ma Spike	trix Spike (Result	mg/L) Rec (%)	Spike	e Duplicate Result	e (mg/L) Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	0.500U	4.00	4.42	110	4.00	3.92	98	<u>75</u> -125	12.00	(< 25)
Batch Information Analytical Batch: WDA46 Analytical Method: SM21 Instrument: Discrete Anal Analyst: DMM Analytical Date/Time: 9/2	4500-N D lyzer 2	PM		Prep Prep Prep	Method: Date/Tin Initial Wt		n TKN by P 019 12:08: .00mL)	

Print Date: 10/08/2019 4:27:37PM

ank ID: MB for HBN 1800 ank Lab ID: 1535270 C for Samples: 95592003, 1195592004, 11		маля	:: Water (Surfac	e, Ell., Glound)	
esults by SM21 4500P-B,	,E				
<u>arameter</u> otal Phosphorus	<u>Results</u> 0.0100U	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2 Analyst: EWW Analytical Date/Time: 9/29/2019 8:03:22PM		Prep Me Prep Da Prep Init	tch: WXX13043 thod: SM21 4500 te/Time: 9/29/20 ial Wt./Vol.: 25 m tract Vol: 25 mL	19 4:54:00PM	

Print Date: 10/08/2019 4:27:39PM



Analyst: EWW

Blank Spike Summary Blank Spike ID: LCS for HBN 1195592 [WXX13043] Spike Duplicate ID: LCSD for HBN 1195592 Blank Spike Lab ID: 1535271 [WXX13043] Spike Duplicate Lab ID: 1535272 Date Analyzed: 09/29/2019 20:04 Matrix: Water (Surface, Eff., Ground) QC for Samples: 1195592003, 1195592004, 1195592005, 1195592006 Results by SM21 4500P-B,E Blank Spike (mg/L) Spike Duplicate (mg/L) Parameter RPD CL Spike Rec (%) Spike Rec (%) CL RPD (%) Result Result **Total Phosphorus** 0.2 0.191 96 0.2 0.187 94 (75-125) 2.10 (< 25) **Batch Information** Analytical Batch: WDA4655 Prep Batch: WXX13043 Analytical Method: SM21 4500P-B,E Prep Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2 Prep Date/Time: 09/29/2019 16:54

Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Print Date: 10/08/2019 4:27:42PM



Matrix Spike Summary Original Sample ID: 1195480002 Analysis Date: 09/29/2019 20:09 MS Sample ID: 1535273 MS Analysis Date: 09/29/2019 20:10 MSD Sample ID: 1535274 MSD Analysis Date: 09/29/2019 20:11 Matrix: Water (Surface, Eff., Ground) QC for Samples: 1195592003, 1195592004, 1195592005, 1195592006 Results by SM21 4500P-B,E Matrix Spike (mg/L) Spike Duplicate (mg/L) <u>Sample</u> Parameter Spike Result Rec (%) <u>Spike</u> Result <u>Rec (%)</u> <u>CL</u> <u>RPD (%)</u> **Total Phosphorus** 0.0200U 0.200 0.200 107 .212 106 0.213 75-125 0.85

Batch InformationAnalytical Batch: WDA4655Prep Batch: WXX13043Analytical Method: SM21 4500P-B,EPrep Method: Total Phosphorus (W) Ext.Instrument: Discrete Analyzer 2Prep Date/Time: 9/29/2019 4:54:00PMAnalyst: EWWPrep Initial Wt./Vol.: 25.00mLAnalytical Date/Time: 9/29/2019 8:10:13PMPrep Extract Vol: 25.00mL

Print Date: 10/08/2019 4:27:44PM

RPD CL

(< 25)

lank Lab ID: 1536931	800523 [WXX/13060]	Matrix	x: Water (Surfac	ce, Eff., Ground)	
C for Samples:	2, 1195592003, 1195592004, 119	5592005, 1195592006	3		
esults by SM21 4500-	NH3 G				
<u>arameter</u> mmonia-N	<u>Results</u> 0.0500U	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	
tch Information					
Analytical Batch: WDA Analytical Method: SM Instrument: Discrete A Analyst: EWW Analytical Date/Time:	21 4500-NH3 G	Prep Me Prep Da Prep Ini	tch: WXX13060 ethod: METHOD tte/Time: 10/6/20 tial Wt./Vol.: 6 m tract Vol: 6 mL		

Print Date: 10/08/2019 4:27:46PM

Method Blank					
Blank ID: MB for HBN Blank Lab ID: 153693	1800523 [WXX/13060] 6	Matrix	k: Water (Surfac	ce, Eff., Ground)	
0C for Samples: 195592001, 119559200	02, 1195592003, 1195592004, 1195	5592005, 1195592006	ì		
Results by SM21 4500	D-NH3 G				
<u>Parameter</u> Ammonia-N	<u>Results</u> 0.0500U	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	
atch Information					
Analytical Batch: WE Analytical Method: S Instrument: Discrete Analyst: EWW Analytical Date/Time:	M21 4500-NH3 G	Prep Me Prep Da Prep Init	tch: WXX13060 ethod: METHOD te/Time: 10/6/20 tial Wt./Vol.: 6 m tract Vol: 6 mL		

Print Date: 10/08/2019 4:27:46PM

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1									
Blank Spike Summary									
Blank Spike ID: LCS for HBN Blank Spike Lab ID: 1536932 Date Analyzed: 10/06/2019	60]	[W Sp	XX13060] ike Duplica	te Lab ID:	D for HBN 1 1536933 Eff., Ground				
QC for Samples: 11955920	001, 119559	92002, 1195	5592003, 119	95592004	119559200	95, 11955920	006		
Results by SM21 4500-NH3 G	3								
		Blank Spike	e (mg/L)	:	Spike Duplic	ate (mg/L)			
<u>Parameter</u>	Spike	Result	Rec (%)	Spike	Result	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL
Ammonia-N	1	1.12	112	1	1.17	117	(75-125)	4.80	(< 25)
Batch Information									
Analytical Batch: WDA4663 Analytical Method: SM21 4500 Instrument: Discrete Analyzer Analyst: EWW				Pre Pre Spi	ke Init Wt./V	METHOD e: 10/06/201 /ol.: 1 mg/L	9 18:00 Extract Vol: Extract Vol:		
Print Date: 10/08/2019 4:27:49PM									

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•									
Blank Spike Summary									
Blank Spike ID: LCS for HB Blank Spike Lab ID: 153693 Date Analyzed: 10/06/201	60]	Spike Duplicate ID: LCSD for HBN 1195592 [WXX13060] Spike Duplicate Lab ID: 1536938 Matrix: Water (Surface, Eff., Ground)							
QC for Samples: 119559	2001, 119559	92002, 1195	5592003, 119	95592004	, 119559200)5, 1195592(006		
Results by SM21 4500-NH3	G								
		Blank Spike	e (mg/L)		Spike Duplic	ate (mg/L)			
<u>Parameter</u>	Spike	Result	Rec (%)	<u>Spike</u>	Result	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL
Ammonia-N	1	1.11	111	1	1.24	124	(75-125)	10.80	(< 25)
Batch Information									
Analytical Batch: WDA4663 Analytical Method: SM21 45 Instrument: Discrete Analyz Analyst: EWW				Pre Pre Sp	ike Init Wt./V	METHOD e: 10/06/201 /ol.: 1 mg/L	9 18:00 Extract Vol: Extract Vol:		
Print Date: 10/08/2019 4:27:49PM									

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Original Sample ID: 1195 MS Sample ID: 1536934 MSD Sample ID: 153693	MS				Analysis Analysis	Date: 10 Date: 10)/06/2019)/06/2019)/06/2019 ırface, Eff.	23:15 23:16)	
QC for Samples: 119559	92001, 11955920	02, 119559	2003, 119					, ereand,	/	
Results by SM21 4500-N	H3 G									
		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> mmonia-N	<u>Sample</u> 0.117	<u>Spike</u> 1.00	<u>Result</u> 1.16	<u>Rec (%)</u> 104	<u>Spike</u> 1.00	<u>Result</u> 1.10	<u>Rec (%)</u> 98	<u>CL</u> 75-125	<u>RPD (%)</u> 5.30	<u>RPD CL</u> (< 25)
Batch Information										
Analytical Batch: WDA46 Analytical Method: SM21 Instrument: Discrete Ana Analyst: EWW Analytical Date/Time: 10	1 4500-NH3 G alyzer 2	0PM		Prep Prep Prep	Method: Date/Tim Initial Wt		by SM21 4 019 6:00:0 0mL) (W)	
, mary toar Dato, rime. To	, , , , , , , , , , , , , , , , , , , ,			1100	Extraor	01. 0.0011				



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Matrix Spike Summar										
Original Sample ID: 1195735001 MS Sample ID: 1536939 MS MSD Sample ID: 1536940 MSD							0/07/2019			
							0/07/2019 0/07/2019			
							urface, Eff.)	
QC for Samples: 1195	592001, 119559200	02, 119559	92003, 119	5592004, 11				,		
Results by SM21 4500										
	-1113 G	Ма	ıtrix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
arameter	<u>Sample</u>	Spike	Result	<u>Rec (%)</u>	Spike	Result	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL
mmonia-N	0.0722J	1.00	1.2	112	1.00	1.17	110	75-125	2.20	(< 25)
	1.									
Batch Information										
Analytical Batch: WDA						NXX13060			0.4.0	
Analytical Method: SN Instrument: Discrete A							a by SM21 4 019 6:00:0		(VV)	
Analyst: EWW	-			Prep	Initial W	t./Vol.: 6.0	0mL			
Analytical Date/Time:	10/7/2019 12:01:51	IAM		Prep	Extract \	Vol: 6.00m	٦L			

Print Date: 10/08/2019 4:27:51PM



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CONTACT: _/// PHO	DNE NO: 3	13-52	62	Sec	tion 3					Prese						Page L	of <u>\</u>
5 PROJECT PROJ NAME: WOSSI / & WWTP PERM	EC1/ D/	- 		# C			N	1	Ness	Schill	holict	Na2)0					
	AIL: Alward	2) Stante 700415	C-Com	N T A	Type C = COMP G =			Nitrie		umonia	del	(H					
	DATE	TIME	MATRIX/ MATRIX	I N E R	GRAB MI = Multi Incre- mental Soils	Bol	SS	Wither Aitik		(KN) Ammonia	TEN HAMMANNA	رہ				REN	MARKS/
for lab use	mm/dd/yy	нн:мм 1094	CODE	s B	G		F	2	U.	F	H	(-					OC ID
CAC MUD6	124(1	1035	Water	3	9			ì	1								
NOLARF SUNT		1100		6		1	١	(1		l	(
5 GAF SWG		1130		6		i	1	1	١		١	1					
AF SWY		1200		4			١	1	1		l	1					
CAF SWS	1/	1240	¥	6	V		1		1		ſ						
									,								
	Date	Time	Received By	:				Sect	ion 4	DOD	Projec	t? Yes	No	Data	Deliv	erable Req	uirements:
	9/20/19	1405						Cool	er ID:								
	Date	Time	Received By	:				Reque					-	ial Instr		IS:	
i ion										Profi	63	4819	83	M	/		
C LOI DO Relinquished By: (3)	Date	Time	Received By	:								•		/			
		· · · · · · · · · · · · ·						Temp	Blank °	c: (_	-13	CD	10	Cha	in of C	ustody Se	al: (Circle)
Relinquished By: (4)	Date	Time	Received Fo		atory By:					or Amb	pient []		INTA	АСТ	BROKEN	ABSENT
	9,2919	14:05	2	RM	7			(See	attach	ed Sam	ple Re	ceipt Fo	orm)	(See at	tacheo	d Sample F	Receipt Form)
[] 200 W. Potter Drive Anchorage, AK 9951 [] 5500 Business Drive Wilmington, NC 28	18 Tel: (907) 405 Tel: (910	562-2343 Fa	x: (907) 561-5 ax: (910) 350-	301 1557				http://w	ww.sgs	.com/te	rms-and	d-condit	ions	Н	Ø	46 of 4	18

46 of 48 F083-Kit_Request_and_COC_Templates-Blank Revised 2013-03-24



000		e-Samp	ole Receipt	eint Form							
SGS		SGS Workorder #:	1	1955	92		9 5 5 9 2				
	Review Crite	eria	Condition (Yes,	No, N/A	E	xceptions Not	ed below				
Ch	ain of Custody	/ Temperature Requir	ements	Ye	s Exemption	permitted if sample	er hand carries/delivers.				
	Were Cus	stody Seals intact? Note # &	location N/A	HD							
		COC accompanied sa	mples? Yes								
DOD:	Were samples rece	ived in COC corresponding c	oolers?								
		**Exemption permitted if o		ted <8 hours	s ago, or for s	samples where chill					
Tei	mperature blank c	compliant* (i.e., 0-6 °C afte	r CF)? Yes	Cooler ID:	1	@	4.3 °C Therm. ID: D30				
				Cooler ID:		@	°C Therm. ID:				
If samples received windocumented instead & "C	ithout a temperature bl OOLER TEMP" will be	ank, the "cooler temperature" will noted to the right. "ambient" or "	l be chilled"	Cooler ID:		@	°C Therm. ID:				
	will be noted if neithe			Cooler ID:		@	°C Therm. ID:				
				Cooler ID:		@	°C Therm. ID:				
	*It >6°C, were sa	amples collected <8 hours	ago? N/A								
	16 000		free of lloss								
	If <0°C, ₩	rere sample containers ice	free? N/A								
Note: Identify contain	ners received at n	on-compliant temperature	. Use								
		S-0029 if more space is no									
·····											
Holding Lir		on / Sample Condition Re les received within holding		Note: Refer to	o form F-083 "S	Sample Guide" for spe	cific holding times.				
	were samp										
Do samples mat	ch COC** (i.e.,sa	mple IDs,dates/times colle	cted)? Yes								
**Note: If tin	nes differ <1hr, re	cord details & login per CO	C.								
***Note: If sample informat	tion on containers diffe	rs from COC, SGS will default to	COC information								
		method is specified for an									
v	vith multiple optior	n for analysis (Ex: BTEX, N	Metals)								
					m						
					***Exempt	tion permitted for me	etals (e.g,200.8/6020A).				
Were proper co	ntainers (type/mas	ss/volume/preservative***))used? Yes								
		Volatile / LL-Hg Req	uiromonto								
Mere Trip	Blanks (i.e. VOAc	, LL-Hg) in cooler with sar									
		adspace (i.e., bubbles ≤ €									
		ield extracted with MeOH-									
		", answer above indicates not		with standar		and may impact da	ta quality				
1016	NO CHEMIC ANY NO					and may impact ud	and quanty.				
		Additiona	l notes (if a	ppiicable)							



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition
1195592001-A	Na2S2O3 for Chlorine Redu	ОК			
1195592001-B	No Preservative Required	ОК			
1195592001-C	H2SO4 to pH < 2	ОК			
1195592002-A	Na2S2O3 for Chlorine Redu	ОК			
1195592002-B	No Preservative Required	ОК			
1195592002-C	H2SO4 to pH < 2	ОК			
1195592003-A	Na2S2O3 for Chlorine Redu	ОК			
1195592003-B	No Preservative Required	ОК			
1195592003-C	H2SO4 to pH < 2	ОК			
1195592003-D	Na2S2O3 for Chlorine Redu	ОК			
1195592003-E	No Preservative Required	ОК			
1195592003-F	No Preservative Required	ОК			
1195592004-A	Na2S2O3 for Chlorine Redu	ОК			
1195592004-B	No Preservative Required	ОК			
1195592004-C	H2SO4 to pH < 2	ОК			
1195592004-D	Na2S2O3 for Chlorine Redu	ОК			
1195592004-E	No Preservative Required	ОК			
1195592004-F	No Preservative Required	ОК			
1195592005-A	Na2S2O3 for Chlorine Redu	ОК			
1195592005-B	No Preservative Required	ОК			
1195592005-C	H2SO4 to pH < 2	ОК			
1195592005-D	Na2S2O3 for Chlorine Redu	ОК			
1195592005-Е	No Preservative Required	ОК			
1195592005-F	No Preservative Required	ОК			
1195592006-A	Na2S2O3 for Chlorine Redu	ОК			
1195592006-B	No Preservative Required	ОК			
1195592006-C	H2SO4 to pH < 2	ОК			
1195592006-D	Na2S2O3 for Chlorine Redu	ОК			
1195592006-E	No Preservative Required	ОК			
1195592006-F	No Preservative Required	ОК			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added. QN - Insufficient sample quantity provided.



Laboratory Report of Analysis

To: Stantec Consulting Services Inc. 725 East Fireweed Lane Suite 200 Anchorage, AK 99503 (907)248-8883

Report Number: **1195735**

Client Project: Wasilla WWTP

Dear John Marshall,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Justin Nelson Project Manager Justin.Nelson@sgs.com Date

Print Date: 10/08/2019 4:38:30PM

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Case Narrative

SGS Client: Stantec Consulting Services Inc. SGS Project: 1195735 Project Name/Site: Wasilla WWTP Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

SW8 (1195735002) PS

5210B - BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

SW9 (1195735003) PS

5210B - BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

SW10 (1195735004) PS

5210B - BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

SW12 (1195735007) PS

5210B – BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

SW11 (1195735008) PS

5210B – BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

1195743002DUP (1535480) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. The difference between sample and duplicate results is less than the LOQ.

LCSS for HBN 1800018 [BOD/6437 (1534474) LCSS

5210B - BOD -LCS recovery is biased high (116%). The maximum allowable limit for the LCS is 228.5 mg/L.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification, and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.
Sample summaries which i All DRO/RRO analyses are	nclude a result for "Total Solids" have already been adjusted for moisture content. i integrated per SOP.

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Note:

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Sample Summary							
ient Sample ID	Lab Sample ID	<u>Collected</u>	Received	<u>Matrix</u>			
W8	1195735001	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
V8	1195735002	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
V9	1195735003	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
V10	1195735004	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
N17	1195735005	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
W16	1195735006	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
V12	1195735007	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
V11	1195735008	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
1	1195735009	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
JP	1195735010	09/25/2019	09/25/2019	Water (Surface, Eff., Ground)			
JP	1195735010	09/25/2019	09/25/2019	•			

Method SM21 4500-NH3 G SM21 5210B SM21 9222D EPA 300.0 SM21 4500-N D SM21 9223B SM21 4500P-B,E SM21 2540D Method Description

Ammonia-N (W) SM21 4500-NH3 G Biochemical Oxygen Demand SM21 5210B Fecal Coliform (MF) Ion Chromatographic Analysis TKN by Phenate (W) Total Coliform P/A Quant Tray Total Phosphorus (W) Total Suspended Solids SM20 2540D

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Client Sample ID: MW8 Lab Sample ID: 1195735001 Parameter Result Units Ammonia-N 0.0722J mg/L Waters Department Nitrate-N 0.0920J mg/L Total Nitrate/Nitrite-N 0.0920J mg/L Client Sample ID: SW8 Lab Sample ID: 1195735002 Parameter Result Units **Microbiology Laboratory** Fecal Coliform 10 col/100mL Total Coliform 2610 MPN/100mL Ammonia-N 0.0760J mg/L Waters Department 0.460J Total Kjeldahl Nitrogen mg/L **Total Phosphorus** 0.0363 mg/L **Total Suspended Solids** 6.26 mg/L Client Sample ID: SW9 Lab Sample ID: 1195735003 Result Units Parameter **Biochemical Oxygen Demand** 2.68 mg/L **Microbiology Laboratory** E. Coli 10 MPN/100mL Fecal Coliform 2.0 col/100mL **Total Coliform** 1986 MPN/100mL Waters Department Ammonia-N 0.0482J mg/L Total Kjeldahl Nitrogen 0.567J mg/L **Total Phosphorus** 0.0613 mg/L **Total Suspended Solids** 8.20 mg/L Client Sample ID: SW10 Lab Sample ID: 1195735004 **Parameter** Result Units **Total Coliform** 411 MPN/100mL **Microbiology Laboratory** Ammonia-N 0.0975J Waters Department mg/L Total Kjeldahl Nitrogen 0.337J mg/L **Total Phosphorus** 0.00650J mg/L **Total Suspended Solids** 1.35 mg/L Client Sample ID: MW17 Lab Sample ID: 1195735005 Parameter Result Units Fecal Coliform 240 col/100mL **Microbiology Laboratory** Ammonia-N 2.39 Waters Department mg/L Total Kjeldahl Nitrogen 3.04 mg/L

Detectable Results Summary

Client Sample ID: **MW16** Lab Sample ID: 1195735006 **Waters Department**

ParameterResultUnitsAmmonia-N0.208mg/L

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Detectable	Results	Summary
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Client Sample ID: SW12			
Lab Sample ID: 1195735007	<u>Parameter</u>	Result	<u>Units</u>
Microbiology Laboratory	E. Coli	17	MPN/100mL
	Fecal Coliform	10	col/100mL
	Total Coliform	1986	MPN/100mL
Waters Department	Ammonia-N	0.0696J	mg/L
	Total Suspended Solids	2.86	mg/L
Client Sample ID: SW11			
Lab Sample ID: 1195735008	Parameter	Result	Units
Microbiology Laboratory	E. Coli	6	MPN/100mL
	Fecal Coliform	4.0	col/100mL
	Total Coliform	689	MPN/100mL
Waters Department	Ammonia-N	0.0582J	mg/L
-	Total Phosphorus	0.0280	mg/L
	Total Suspended Solids	0.808J	mg/L
Client Sample ID: B11			
Lab Sample ID: 1195735009	Parameter	Result	Units
Waters Department	Ammonia-N	0.269	mg/L
•			0
Client Sample ID: DUP	-		
Lab Sample ID: 1195735010	Parameter	<u>Result</u>	<u>Units</u>
Waters Department	Ammonia-N	0.295	mg/L

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Results of MW8 Client Sample ID: MW8 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735001 Lab Project ID: 1195735	R M S	Collection Date: 09/25/19 10:20 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory <u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> DF col/100mL 1	<u>Allowable</u> Limits	<u>Date Analyzed</u> 09/25/19 18:15		
Batch Information Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735001-B								

Print Date: 10/08/2019 4:38:41PM

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Results of MW8									
Client Sample ID: MW8 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735001 Lab Project ID: 1195735		Collection Date: 09/25/19 10:20 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Waters Department									
Parameter Nitrate-N Nitrite-N Fotal Nitrate/Nitrite-N	<u>Result Qual</u> 0.0920 J 0.100 U 0.0920 J	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/26/19 23:1 09/26/19 23:1 09/26/19 23:1		
Batch InformationAnalytical Batch: WIC5969Analytical Method: EPA 300.0Analyst: DMMAnalytical Date/Time: 09/26/19 23:14Container ID: 1195735001-A			Prep Batch: M Prep Method: Prep Date/Tir Prep Initial W Prep Extract M	METHOD ne: 09/26/1 t./Vol.: 10 r					
<u>Parameter</u> Fotal Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:1		
Batch Information									
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:12 Container ID: 1195735001-C		Prep Batch: WXX13040 Prep Method: METHOD Prep Date/Time: 09/28/19 12:08 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL							
Parameter Ammonia-N	<u>Result Qual</u> 0.0722 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/07/19 00:0		
Batch Information									
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:00 Container ID: 1195735001-C			Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \						

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T

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Client Sample ID: SW8 Client Project ID: Wasilla WWTP ab Sample ID: 1195735002 ab Project ID: 1195735		Collection Date: 09/25/19 10:51 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground)							
-		Solids (%): Location:							
Results by Microbiology Laboratory						Allowable			
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/26/19 12:3		
Batch InformationAnalytical Batch: BOD6437Analytical Method: SM21 5210BAnalyst: A.LAnalytical Date/Time: 09/26/19 12:35Container ID: 1195735002-A									
P <u>arameter</u> Fecal Coliform	<u>Result Qual</u> 10	<u>LOQ/CL</u> 10.0	<u>DL</u> 10.0	<u>Units</u> col/100m	<u>DF</u> L 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/25/19 18: ⁻		
Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735002-E									
P <u>arameter</u> E. Coli	<u>Result Qual</u> 10 U	<u>LOQ/CL</u> 10	<u>DL</u> 10	<u>Units</u> MPN/100		<u>Allowable</u> Limits	<u>Date Analyze</u> 09/25/19 18:1		
Fotal Coliform	2610	10	10	MPN/100	n 10		09/25/19 18:1		
Batch InformationAnalytical Batch: BTF17671Analytical Method: SM21 9223BAnalyst: ACFAnalytical Date/Time: 09/25/19 18:19Container ID: 1195735002-C									

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Results of SW8 Client Sample ID: SW8 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735002 Lab Project ID: 1195735		Collection Date: 09/25/19 10:51 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Waters Department									
						Allowable			
Parameter	Result Qual	LOQ/CL	DL	Units	DF	Limits	Date Analyzed		
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		09/26/19 23:3		
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/26/19 23:3		
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/26/19 23:3		
Batch Information									
Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/26/19 23:33 Container ID: 1195735002-A			Prep Batch: ¹ Prep Method: Prep Date/Tir Prep Initial W Prep Extract ¹	METHOD me: 09/26/1 t./Vol.: 10 r	19 16:30 mL				
Parameter Total Suspended Solids	<u>Result</u> Qual 6.26	<u>LOQ/CL</u> 1.01	<u>DL</u> 0.313	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/30/19 17:3		
Batch Information									
Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195735002-B									
						Allowable			
Parameter	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed		
Total Kjeldahl Nitrogen	0.460 J	1.00	0.310	mg/L	1		09/29/19 16:1		
Batch Information									
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:16 Container ID: 1195735002-F			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 09/28/1 t./Vol.: 25 r	19 12:08 mL				
						Allowable			
<u>⊃arameter</u> Ammonia-N	<u>Result Qual</u> 0.0760 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	Date Analyzed		
			5.0010						

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Results of SW8								
Client Sample ID: SW8 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735002 Lab Project ID: 1195735		Collection Date: 09/25/19 10:51 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
Batch Information								
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:08 Container ID: 1195735002-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 /Vol.: 6 m	9 18:00			
_						Allowable		
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.0363	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	<u>Date Analyzec</u> 09/29/19 20:26	
Batch Information								
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:26 Container ID: 1195735002-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 :./Vol.: 25 r	9 16:54			

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Results of SW9		~	olloctic - D	ato: 00/25/40	11.10			
Client Sample ID: SW9 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735003 Lab Project ID: 1195735		Collection Date: 09/25/19 11:13 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory								
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 2.68	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00		<u>DF</u> I	Allowable Limits	<u>Date Analyze</u> 09/26/19 12:3	
Batch Information								
Analytical Batch: BOD6437 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/26/19 12:35 Container ID: 1195735003-A								
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 2.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> <u>[</u> col/100mL 1	<u>DF</u> I	Allowable Limits	Date Analyze 09/25/19 18:1	
Batch Information Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735003-E								
						Allowable		
<u>Parameter</u> E. Coli Total Coliform	<u>Result Qual</u> 10 1986	LOQ/CL 1 1	<u>DL</u> 1 1	<u>Units [</u> MPN/100m1 MPN/100m1		<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/25/19 18:1 09/25/19 18:1	
Batch Information Analytical Batch: BTF17671 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/25/19 18:19 Container ID: 1195735003-C								

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Client Sample ID: SW9 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735003 Lab Project ID: 1195735		Collection Date: 09/25/19 11:13 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department			_					
<u>Parameter</u> Nitrate-N Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U	<u>LOQ/CL</u> 0.200 0.200	<u>DL</u> 0.0500 0.0500	<u>Units</u> mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/26/19 23:5 09/26/19 23:5	
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/26/19 23:5	
Batch Information								
Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/26/19 23:52 Container ID: 1195735003-A			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 09/26/1 t./Vol.: 10 r	19 16:30 mL			
Parameter Total Suspended Solids	<u>Result Qual</u> 8.20	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/30/19 17:3	
Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195735003-B								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.567 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:1	
Batch Information								
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:18 Container ID: 1195735003-F			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 09/28/1 t./Vol.: 25 r	19 12:08 mL			
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0482 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/07/19 00:1	

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Results of SW9								
Client Sample ID: SW9 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735003 Lab Project ID: 1195735		Collection Date: 09/25/19 11:13 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
Batch Information								
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:10 Container ID: 1195735003-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 t./Vol.: 6 m				
_						Allowable		
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.0613	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	Date Analyzec 09/29/19 20:23	
Batch Information								
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:27 Container ID: 1195735003-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 t./Vol.: 25 r	9 16:54			

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Client Sample ID: SW10 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735004 Lab Project ID: 1195735		R M S	eceived Da	ate: 09/25/19 ate: 09/25/19 er (Surface, E	9 16:39		
Results by Microbiology Laboratory							
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/26/19 12:35
Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/26/19 12:35 Container ID: 1195735004-A							
Parameter Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100ml	<u>DF</u> _ 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/25/19 18:15
Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735004-E Parameter E. Coli	<u>Result Qual</u> 1 U	LOQ/CL 1	<u>DL</u> 1	<u>Units</u> MPN/100	<u>DF</u> rr 1	Allowable Limits	Date Analyzed 09/25/19 18:19
Total Coliform	411	1	1	MPN/100	n 1		09/25/19 18:19
Batch Information Analytical Batch: BTF17671 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/25/19 18:19 Container ID: 1195735004-C							
int Date: 10/08/2019 4:38:41PM						1.41.	g is activated

Results of SW10									
Client Sample ID: SW10 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735004 Lab Project ID: 1195735		Collection Date: 09/25/19 11:43 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Waters Department]						
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/27/19 00:1 09/27/19 00:1 09/27/19 00:1		
Batch Information									
Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 00:11 Container ID: 1195735004-A		F	Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	METHOD ne: 09/26/1 t./Vol.: 10 r					
<u>Parameter</u> Total Suspended Solids	<u>Result</u> Qual 1.35	<u>LOQ/CL</u> 0.962	<u>DL</u> 0.298	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/30/19 17:3		
Batch Information Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195735004-B									
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.337 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:1		
Batch Information									
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:19 Container ID: 1195735004-F		F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r					
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0975 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 10/07/19 00:1		

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Results of SW10								
Client Sample ID: SW10 Client Project ID: Wasilla WWTP .ab Sample ID: 1195735004 .ab Project ID: 1195735		Collection Date: 09/25/19 11:43 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department]					
Batch Information								
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:11 Container ID: 1195735004-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 ./Vol.: 6 m	9 18:00			
P <u>arameter</u> Total Phosphorus	<u>Result Qual</u> 0.00650 J	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/29/19 20:20	
Batch Information								
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:28 Container ID: 1195735004-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 ./Vol.: 25 r	0P-B,E 9 16:54 mL			

- Results of MW17							
Client Sample ID: MW17 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735005 Lab Project ID: 1195735		R M S	eceived D	0ate: 09/25/1 ate: 09/25/1 er (Surface, l	9 16:39)	
Results by Microbiology Laboratory							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 240	<u>LOQ/CL</u> 20.0	<u>DL</u> 20.0	<u>Units</u> col/100m	DF IL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/25/19 18:15
Batch Information Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735005-B							

Print Date: 10/08/2019 4:38:41PM

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Results of MW17 Client Sample ID: MW17 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735005 Lab Project ID: 1195735	ľ	Collection Date: 09/25/19 12:10 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Waters Department			_			Allowable			
Parameter	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	Limits	Date Analyze		
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 00:3		
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 00:3		
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 00:3		
Batch Information									
Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 00:30 Container ID: 1195735005-A			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 09/26/1 t./Vol.: 10 r	19 16:30 mL				
<u>Parameter</u> Fotal Kjeldahl Nitrogen	<u>Result Qual</u> 3.04	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:2		
Batch Information									
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:20 Container ID: 1195735005-C			Prep Batch: Prep Method: Prep Date/Tin Prep Initial W Prep Extract	METHOD ne: 09/28/1 t./Vol.: 25 r	9 12:08				
	De suit Ossal	100/01		1.1		Allowable	Data Awahara		
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 2.39	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	Date Analyze 10/07/19 00:4		
Batch Information									
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:41 Container ID: 1195735005-C		Prep Batch: WXX13060 Prep Method: METHOD Prep Date/Time: 10/06/19 18:00 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL							

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Results of MW16							
Client Sample ID: MW16 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735006 Lab Project ID: 1195735		R M S	eceived D	0ate: 09/25/ ate: 09/25/1 er (Surface,	9 16:39		
Results by Microbiology Laboratory			_				
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 9.09 U	<u>LOQ/CL</u> 9.09	<u>DL</u> 9.09	<u>Units</u> col/100n	<u>DF</u> nL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/25/19 18:15
Batch Information							
Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735006-B							

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Results of MW16 Client Sample ID: MW16 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735006		Collection Date: 09/25/19 13:28 Received Date: 09/25/19 16:39								
ab Project ID: 1195735		:	Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Waters Department										
P <u>arameter</u> vitrate-N vitrite-N	<u>Result Qual</u> 0.100 U 0.100 U	<u>LOQ/CL</u> 0.200 0.200	<u>DL</u> 0.0500 0.0500	<u>Units</u> mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/27/19 01:2 09/27/19 01:2			
Fotal Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 01:2			
Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 01:27 Container ID: 1195735006-A			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 09/26/1 t./Vol.: 10 n						
P <u>arameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	Allowable Limits	<u>Date Analyze</u> 09/29/19 16:2			
Batch Information										
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:24 Container ID: 1195735006-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 n						
P <u>arameter</u> Ammonia-N	<u>Result Qual</u> 0.208	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/07/19 00:			
Batch Information										
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:13 Container ID: 1195735006-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 10/06/1 t./Vol.: 6 m						

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Client Sample ID: SW12 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735007 Lab Project ID: 1195735		Collection Date: 09/25/19 13:56 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory								
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result</u> Qual 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/26/19 12:35	
Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/26/19 12:35 Container ID: 1195735007-A								
<u>Parameter</u> Fecal Coliform	<u>Result</u> Qual 10	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100m	<u>DF</u> L 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/25/19 18:15	
Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735007-E Parameter E. Coli	<u>Result Qual</u> 17	LOQ/CL	<u>DL</u> 1	Units MPN/100	DF rr 1	Allowable Limits	Date Analyzed 09/25/19 18:19	
Total Coliform	1986	1	1	MPN/100			09/25/19 18:19	
Batch Information Analytical Batch: BTF17671 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/25/19 18:19 Container ID: 1195735007-C								

Results of SW12										
Client Sample ID: SW12	_	С	ollection Da	te: 09/25/	19 13:56					
Client Project ID: Wasilla WWTP			eceived Dat							
Lab Sample ID: 1195735007		Matrix: Water (Surface, Eff., Ground)								
Lab Project ID: 1195735			olids (%):							
		L	ocation:							
Results by Waters Department										
Parameter_	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	<u>Allowable</u> Limits	Date Analyze			
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 01:4			
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 01:4			
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 01:4			
Batch Information										
Analytical Batch: WIC5969			Prep Batch:							
Analytical Method: EPA 300.0 Analyst: DMM			Prep Method: Prep Date/Tir		0.46.20					
Analytical Date/Time: 09/27/19 01:46			Prep Initial W							
Container ID: 1195735007-A			Prep Extract V							
						Allowable				
Parameter	<u>Result</u> Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	DF	Limits	Date Analyze			
Total Suspended Solids	2.86	1.02	0.316	mg/L	1		09/30/19 17:3			
Batch Information										
Analytical Batch: STS6505										
Analytical Method: SM21 2540D Analyst: EWW										
Analytical Date/Time: 09/30/19 17:35										
Container ID: 1195735007-B										
						Allowable				
Parameter	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	Limits	Date Analyze			
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		09/29/19 16:2			
Batch Information										
		F	Prep Batch:	WXX13040						
Analytical Batch: WDA4654			Prep Method:							
Analytical Method: SM21 4500-N D			Prep Date/Tir Prep Initial W							
Analytical Method: SM21 4500-N D Analyst: DMM										
Analytical Method: SM21 4500-N D			Prep Extract	VOI. 20 IIIL						
Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:25			Prep Extract	V01. 20 ML		Allowable				
Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:25	Result Qual		DL	Units	DF	<u>Allowable</u> Limits	Date Analyze			

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Results of SW12							
Client Sample ID: SW12 Client Project ID: Wasilla WWTP ab Sample ID: 1195735007 ab Project ID: 1195735		F M S	Collection Dat Received Date Matrix: Water Solids (%): Location:	e: 09/25/ ⁻	19 16:39	und)	
Results by Waters Department							
Batch Information							
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:15 Container ID: 1195735007-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 /Vol.: 6 m	9 18:00		
arameter	Result Qual	LOQ/CL	DL	Units	DF	<u>Allowable</u> <u>Limits</u>	Date Analyzed
otal Phosphorus	0.0100 U	0.0200	0.00500	mg/L	1	Linita	09/29/19 20:28
atch Information							
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:28 Container ID: 1195735007-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 /Vol.: 25 i	0P-B,E 9 16:54		

SGS	

Results of SW11							
Client Sample ID: SW11 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735008 Lab Project ID: 1195735		R M S	eceived Da	ate: 09/25/ [,] ate: 09/25/1 er (Surface,	9 16:39		
Results by Microbiology Laboratory]				
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/26/19 12:35
Batch Information							
Analytical Batch: BOD6437 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/26/19 12:35 Container ID: 1195735008-A							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 4.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> col/100m	<u>DF</u> nL 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/25/19 18:15
Batch Information							
Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735008-E							
Parameter	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	<u>Allowable</u> <u>Limits</u>	Date Analyzed
E. Coli	6	1	1	MPN/10	0m 1		09/25/19 18:19
Total Coliform	689	1	1	MPN/10	0n 1		09/25/19 18:19
Batch Information Analytical Batch: BTF17671 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/25/19 18:19 Container ID: 1195735008-C							
Print Date: 10/08/2019 4:38:41PM						J flagging	g is activated
	00 West Potter D 907.562.2343 f 9					Membe	r of SGS Group

Client Sample ID: SW11 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735008 Lab Project ID: 1195735		Collection Date: 09/25/19 14:15 Received Date: 09/25/19 16:39 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department			_					
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/27/19 02:0 09/27/19 02:0 09/27/19 02:0	
Batch Information Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 02:05 Container ID: 1195735008-A		F F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 09/26/1 t./Vol.: 10 r	19 16:30 mL			
<u>Parameter</u> Total Suspended Solids	<u>Result Qual</u> 0.808 J	<u>LOQ/CL</u> 1.01	<u>DL</u> 0.313	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/30/19 17:3	
Batch Information								
Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195735008-B								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:2	
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:27 Container ID: 1195735008-F		F F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 09/28/1 t./Vol.: 25 r	19 12:08 mL			
Parameter	<u>Result Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u> <u>Limits</u>	Date Analyze	

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esults of SW11	ł						
Client Sample ID: SW11 Client Project ID: Wasilla WWTP ab Sample ID: 1195735008 ab Project ID: 1195735		 :	Collection Dat Received Date Matrix: Water Solids (%): Location:	e: 09/25/ ⁻	19 16:39	und)	
Results by Waters Department							
atch Information							
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:16 Container ID: 1195735008-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/1 /Vol.: 6 m	19 18:00		
arameter	Result Qual	LOQ/CL	DL	Units	DF	<u>Allowable</u> <u>Limits</u>	Date Analyzed
otal Phosphorus	0.0280	0.0200	<u>DL</u> 0.00500	mg/L	<u>DF</u> 1	Linits	09/29/19 20:3
atch Information							
Analytical Batch: WDA4655 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 09/29/19 20:31 Container ID: 1195735008-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 09/29/1 /Vol.: 25 i	0P-B,E 19 16:54 mL		

Results of B11							
Client Sample ID: B11 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735009 Lab Project ID: 1195735		Ri M So	eceived D	Date: 09/25/1 Date: 09/25/19 er (Surface, E	9 16:39	-	
Results by Microbiology Laboratory							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 9.09 U	<u>LOQ/CL</u> 9.09	<u>DL</u> 9.09	<u>Units</u> col/100m	<u>DF</u> L 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/25/19 18:15
Batch Information Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735009-B							

Print Date: 10/08/2019 4:38:41PM

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Results of B11							
Client Sample ID: B11 Client Project ID: Wasilla WWTP Lab Sample ID: 1195735009 Lab Project ID: 1195735		F M	Collection Da Received Dat Matrix: Water Solids (%):	te: 09/25/1	9 16:39	und)	
			ocation:				
Results by Waters Department			_				
Parameter	Result Qual	LOQ/CL	DL	Units	DF	<u>Allowable</u> Limits	Date Analyze
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 02:2
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 02:2
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		09/27/19 02:2
Batch Information							
Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 02:24 Container ID: 1195735009-A			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 09/26/1 t./Vol.: 10 r			
Parameter	Result Qual	LOQ/CL	DL	Units	DE	<u>Allowable</u> Limits	Date Analyze
Total Kjeldahl Nitrogen	0.500 U	1.00	<u>DE</u> 0.310	mg/L	<u>Di</u> 1	Linits	09/29/19 16:2
Batch Information							
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:28 Container ID: 1195735009-C			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r			
Parameter Ammonia-N	<u>Result Qual</u> 0.269	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/07/19 00:
Batch Information							
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:18 Container ID: 1195735009-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 10/06/1 t./Vol.: 6 m			

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Results of DUP							
Client Sample ID: DUP Client Project ID: Wasilla WWTP Lab Sample ID: 1195735010 Lab Project ID: 1195735		R M S	eceived D	0ate: 09/25/ ate: 09/25/1 er (Surface,	9 16:39	-	
Results by Microbiology Laboratory							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 9.09 U	<u>LOQ/CL</u> 9.09	<u>DL</u> 9.09	<u>Units</u> col/100n	<u>DF</u> nL 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/25/19 18:15
Batch Information Analytical Batch: BTF17673 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/25/19 18:15 Container ID: 1195735010-B							

Print Date: 10/08/2019 4:38:41PM

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Results of DUP Client Sample ID: DUP Client Project ID: Wasilla WWTP Lab Sample ID: 1195735010 Lab Project ID: 1195735		F M S	Collection Da Received Dat Matrix: Water Solids (%): .ocation:	e: 09/25/1	9 16:39	und)	
Results by Waters Department Parameter Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/27/19 02:4 09/27/19 02:4 09/27/19 02:4
Batch Information Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 02:43 Container ID: 1195735010-A			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 09/26/1 t./Vol.: 10 r			
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:2
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:29 Container ID: 1195735010-C			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 09/28/1 t./Vol.: 25 r			
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.295	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/07/19 00:2
Batch Information Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:20 Container ID: 1195735010-C			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 10/06/1 t./Vol.: 6 m			

Method Blank]			
Blank ID: MB for HBN 18000 Blank Lab ID: 1534473	18 [BOD/6437]	Mat	rix: Water (Surf	ace, Eff., Ground)	
QC for Samples: 1195735002, 1195735003, 1195	5735004, 1195735007, 11	195735008			
Results by SM21 5210B]			
<u>Parameter</u> Biochemical Oxygen Demand	<u>Results</u> 2.00U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: BOD6437 Analytical Method: SM21 52 Instrument: Analyst: A.L Analytical Date/Time: 9/26/2					

Blank Spike Summary Blank Spike ID: LCS for HBN 1195735 [BOD6437] Blank Spike Lab ID: 1534474 Date Analyzed: 09/26/2019 12:35 Matrix: Water (Surface, Eff., Ground) DC for Samples: 1195735002, 1195735003, 1195735004, 1195735007, 1195735008 Results by SM21 5210B Blank Spike (mg/L) Parameter Spike Result Rec (%) CL Biochemical Oxygen Demand 198 229 116 * (84.6-115.4	SGS				
Blank Spike ID: LCS for HBN 1195735 [BOD6437] Blank Spike Lab ID: 1534474 Date Analyzed: 09/26/2019 12:35 Matrix: Water (Surface, Eff., Ground) CC for Samples: 1195735002, 1195735003, 1195735004, 1195735007, 1195735008 Results by SM21 5210B Blank Spike (mg/L) Parameter Spike Result Rec (%) CL Biochemical Oxygen Demand 198 229 116 * (84.6-115.4 Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument:					
QC for Samples: 1195735002, 1195735003, 1195735004, 1195735007, 1195735008 Results by SM21 5210B Blank Spike (mg/L) Parameter Spike Result Rec (%) CL Biochemical Oxygen Demand 198 229 116 * (84.6-115.4) Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument: Kethod: SM21 5210B Kethod: SM21 5210B	Blank Spike ID: LCS for HBN Blank Spike Lab ID: 1534474	1	[BOD6437		triv: Water (Surface Eff. Ground)
Blank Spike (mg/L) Parameter Spike Result Rec (%) CL iochemical Oxygen Demand 198 229 116 * (84.6-115.4) Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument: Instrument: Instrument Instrument Instrument	C for Samples: 11957350	002, 11957	35003, 119		
Blank Spike (mg/L) Parameter Spike Result Rec (%) CL Biochemical Oxygen Demand 198 229 116 * (84.6-115.4) Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument: Instrument: Instrument Instrument Instrument	Results by SM21 5210B				
Parameter Spike Result Rec (%) CL Biochemical Oxygen Demand 198 229 116 * (84.6-115.4) Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument: SM21 5210B	-		Blank Spike	e (mg/L)	
Batch Information Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument:	Parameter	Spike	Result	<u>Rec (%)</u>	
Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument:	Biochemical Oxygen Demand	198	229	116 *	(84.6-115.4
Analytical Batch: BOD6437 Analytical Method: SM21 5210B Instrument:	Batch Information				
	Analytical Method: SM21 5210 Instrument:)В			

Blank Lab ID: 1534368 QC for Samples:	1799984 [BTF/17671] })3, 1195735004, 1195735007, 119		k: Water (Suri	ace, Eff., Ground)	
Results by SM21 9223	В				
Parameter	Results	LOQ/CL	DL	<u>Units</u>	
Γotal Coliform Ξ. Coli	1U 1U	1	1	MPN/100m MPN/100m	
Analytical Batch: BTF Analytical Method: SI Instrument: Analyst: ACF					

Print Date: 10/08/2019 4:38:55PM

Method Blank

Blank ID: MB for HBN 1799986 [BTF/17673] Blank Lab ID: 1534967 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by SM21 9222D

Parameter	Results	LOQ/CL	<u>DL</u>	<u>Units</u>	
Fecal Coliform	1.00U	1.00	1.00	col/100mL	
Batch Information]				
Analytical Batch: B					
Analytical Method:	SM21 9222D				
Instrument: Analyst: A.L					
5	e: 9/25/2019 6:15:52PM				

Print Date: 10/08/2019 4:39:02PM

Method Blank					
Blank ID: MB for HBN 180 Blank Lab ID: 1535476	0204 [STS/6505]	Matrix	: Water (Surf	ace, Eff., Ground)	
QC for Samples: 1195735002 1195735003 1	195735004, 1195735007, 119	95735008			
,					
Results by SM21 2540D		j			
Parameter	Results	LOQ/CL	<u>DL</u>	<u>Units</u>	
Total Suspended Solids	0.500U	1.00	0.310	mg/L	
Batch Information					
Analytical Batch: STS650 Analytical Method: SM21 Instrument: Analyst: EWW					
Analytical Date/Time: 9/3	0/2019 5:35:02PM				

Print Date: 10/08/2019 4:39:09PM

- Duplicate Sample Summary	/				
Original Sample ID: 119573 Duplicate Sample ID: 15354 QC for Samples: 1195735002, 1195735003, 1	79	735007, 1195735008		09/30/2019 17:35 Surface, Eff., Grou	
Results by SM21 2540D					
NAME	<u>Original</u>	Duplicate	<u>Units</u>	<u>RPD (%)</u>	RPD CL
Total Suspended Solids	61.3	62.0	mg/L	1.20	(< 5)
Batch Information					
Analytical Batch: STS6505 Analytical Method: SM21 254 Instrument: Analyst: EWW	40D				

Duplicate Sample Summary	/				
Driginal Sample ID: 119574 Duplicate Sample ID: 15354 QC for Samples: 1195735002, 1195735003, 1	80	735007, 1195735008		09/30/2019 17:35 Surface, Eff., Grou	
Results by SM21 2540D					
NAME	<u>Original</u>	Duplicate	<u>Units</u>	<u>RPD (%)</u>	RPD CL
Fotal Suspended Solids	71.0	66.5	mg/L	6.50*	(< 5)
Batch Information					
Analytical Batch: STS6505 Analytical Method: SM21 254 Instrument: Analyst: EWW	40D				

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1									
Blank Spike Summary									
Blank Spike ID: LCS for HBN Blank Spike Lab ID: 1535477 Date Analyzed: 09/30/2019	,	[STS6505]	[ST Spi	S6505] ke Duplica	ate Lab ID:	D for HBN 1 1535478 Eff., Ground		
OC for Somplos: 1105735(002 44057	25002 110	E72E004 44				Lii., Ground)	
QC for Samples: 11957350	JUZ, 11957.	35003, 119	5735004, 11	95735007,	119573500	78			
Results by SM21 2540D									
		Blank Spike				cate (mg/L)			
Parameter	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Suspended Solids	25	25.1	100	25	24.7	99	(75-125)	1.60	(< 5)
Batch Information									
Analytical Batch: STS6505 Analytical Method: SM21 2540 Instrument: Analyst: EWW)D								

Method Blank

Blank ID: MB for HBN 1800126 [WXX/13035] Blank Lab ID: 1535010 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by EPA 300.0

(
	<u>Parameter</u>	<u>Results</u>	LOQ/CL	DL	<u>Units</u>
	Nitrate-N	0.100U	0.200	0.0500	mg/L
	Nitrite-N	0.100U	0.200	0.0500	mg/L
	Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 9/26/2019 5:51:39PM Prep Batch: WXX13035 Prep Method: METHOD Prep Date/Time: 9/26/2019 4:30:00PM Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

Print Date: 10/08/2019 4:39:17PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195735 [WXX13035] Blank Spike Lab ID: 1535011 Date Analyzed: 09/26/2019 18:10

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by EPA 300.0						
		Blank Spike	e (mg/L)	ng/L)		
Parameter	Spike	Result	<u>Rec (%)</u>	<u>CL</u>		
Nitrate-N	5	4.71	94	(90-110)		
Nitrite-N	5	4.88	98	(90-110)		
Total Nitrate/Nitrite-N	10	9.58	96	(90-110)		
Batch Information						
Analvtical Batch: WIC5969				Prep Batch: WXX13035		

Analytical Batch: WIC5969 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Prep Batch: WXX13035 Prep Method: METHOD Prep Date/Time: 09/26/2019 16:30 Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/08/2019 4:39:20PM



Matrix Spike Summary			<u> </u>						
Original Sample ID: 1535014 MS Sample ID: 1535016 MS MSD Sample ID:					Analysis Date: 09 Analysis Date: 09 Analysis Date: Matrix: Water (Su	/26/2019	22:55		
	1, 1195735002 3, 1195735009			5735004, 11	95735005, 1195735	006, 11957	35007,		
Results by EPA 300.0									
		Matr	ix Spike (ı	mg/L)	Spike Duplicate	(mg/L)			
<u>Parameter</u> Nitrate-N	<u>Sample</u> 3.31	<u>Spike</u> 5.00	<u>Result</u> 8.04	<u>Rec (%)</u> 94	Spike Result	<u>Rec (%)</u>	<u>CL</u> 90-110	<u>RPD (%)</u>	RPD CL
Nitrite-N	0.100U	5.00	5.26	105			90-110		
Batch Information Analytical Batch: WIC5969 Analytical Method: EPA 300. Instrument: 930 Metrohm cor				Prep	9 Batch: WXX13035 9 Method: EPA 300. 9 Date/Time: 9/26/20	0 Extraction		iquids	
Analyst: DMM				Prep	Initial Wt./Vol.: 10.0	00mL			
Analytical Date/Time: 9/26/20	19 10:55:38F	PM		Prep	Extract Vol: 10.00r	nL			
Print Date: 10/08/2019 4:39:22PM									

Method Blank

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Blank ID: MB for HBN 1800146 [WXX/13040] Blank Lab ID: 1535143

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by SM21 4500-N D

	·					
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Results</u> 0.500U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L		
Batch Information						
Analytical Batch: WDA4654		Prep Ba	tch: WXX13040)		
Analytical Method: SM21 4500-N D		Prep Method: METHOD				
Instrument: Discrete Analyzer 2		Prep Date/Time: 9/28/2019 12:08:00PM				
Analyst: DMM		Prep Initial Wt./Vol.: 25 mL				
Analytical Date/Time: 9/29	9/2019 4:08:55PM	Prep Ex	tract Vol: 25 mL			

Print Date: 10/08/2019 4:39:25PM



Instrument: Discrete Analyzer 2

Analyst: DMM

Blank Spike Summary Blank Spike ID: LCS for HBN 1195735 [WXX13040] Spike Duplicate ID: LCSD for HBN 1195735 Blank Spike Lab ID: 1535144 [WXX13040] Spike Duplicate Lab ID: 1535145 Date Analyzed: 09/29/2019 16:10 Matrix: Water (Surface, Eff., Ground) QC for Samples: 1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010 Results by SM21 4500-N D Blank Spike (mg/L) Spike Duplicate (mg/L) Parameter RPD CL Spike Rec (%) Spike Result Rec (%) CL RPD (%) Result Total Kjeldahl Nitrogen 4 4.25 106 4 4.42 110 (75-125) 3.90 (< 25) **Batch Information** Analytical Batch: WDA4654 Prep Batch: WXX13040 Analytical Method: SM21 4500-N D Prep Method: METHOD

Prep Date/Time: 09/28/2019 12:08

Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Print Date: 10/08/2019 4:39:33PM



•				5735004, 11	Analysis Matrix:	Date: 09 Water (Si	9/29/2019 9/29/2019 urface, Eff. 5006, 11957	16:15 , Ground))	
Results by SM21 4500-N										
		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>arameter</u> otal Kjeldahl Nitrogen	<u>Sample</u> 0.500U	<u>Spike</u> 4.00	<u>Result</u> 4.42	<u>Rec (%)</u> 110	<u>Spike</u> 4.00	<u>Result</u> 3.92	<u>Rec (%)</u> 98	<u>CL</u> 75-125	<u>RPD (%)</u> 12.00	<u>RPD CL</u> (< 25)
Batch Information Analytical Batch: WDA46 Analytical Method: SM21 Instrument: Discrete Ana Analyst: DMM Analytical Date/Time: 9/2	4500-N D yzer 2)PM		Prep Prep Prep	Method: Date/Tin Initial Wi		n TKN by P 019 12:08: .00mL)	

Print Date: 10/08/2019 4:39:35PM

SGS

- Method Blank										
Blank ID: MB for HBN 1 Blank Lab ID: 1535270	800163 [WXX/13043]	Matrix: Water (Surface, Eff., Ground)								
QC for Samples: 1195735002, 1195735003	, 1195735004, 1195735007, 119	5735008								
Results by SM21 4500P	-B,E									
<u>Parameter</u> Total Phosphorus	<u>Results</u> 0.0100U	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L						
Batch Information										
Analytical Batch: WDA Analytical Method: SM Instrument: Discrete A Analyst: EWW Analytical Date/Time: §	21 4500P-B,E nalyzer 2	Prep Me Prep Da Prep Init	tch: WXX13043 thod: SM21 450 te/Time: 9/29/20 ial Wt./Vol.: 25 r rract Vol: 25 mL	19 4:54:00PM						

Print Date: 10/08/2019 4:39:37PM

SGS	

Blank Spike Summary Blank Spike ID: LCS for HBN 1195735 [WXX13043] Blank Spike Lab ID: 1535271 Spike Duplicate ID: LCSD for HBN 1195735 [WXX13043]							
Blank Spike Lab ID: 1535271 [WXX13043]							
Date Analyzed: 09/29/2019 20:04 Spike Duplicate Lab ID: 1535272 Matrix: Water (Surface, Eff., Ground)							
QC for Samples: 1195735002, 1195735003, 1195735004, 1195735007, 1195735008							
Results by SM21 4500P-B,E							
Blank Spike (mg/L) Spike Duplicate (mg/L) Parameter Spike Result Rec (%) Spike RPD (%)	RPD CL						
Total Phosphorus 0.2 0.191 96 0.2 0.187 94 (75-125) 2.10	(< 25)						
Batch Information							
Analytical Batch: WDA4655 Prep Batch: WXX13043							
Analytical Method: SM21 4500P-B,E Prep Method: SM21 4500P-B,E							
Instrument: Discrete Analyzer 2 Prep Date/Time: 09/29/2019 16:54							
Analyst: EWW Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL	pike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL						

Print Date: 10/08/2019 4:39:41PM



Matrix Spike Summary Original Sample ID: 119 MS Sample ID: 153527 MSD Sample ID: 15352	5480002 '3 MS 274 MSD				Analysis Analysis Matrix:	Date: 09 Date: 09 Water (Si	9/29/2019 9/29/2019 9/29/2019 urface, Eff.	20:10 20:11)	
QC for Samples: 11957 Results by SM21 4500P	235002, 119573500 2- B,E	JS, 119573	5004, 119	5735007, 11	95735000	5				
		Ма	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> Total Phosphorus	<u>Sample</u> 0.0200U	<u>Spike</u> 0.200	<u>Result</u> .212	<u>Rec (%)</u> 106	<u>Spike</u> 0.200	<u>Result</u> 0.213	<u>Rec (%)</u> 107	<u>CL</u> 75-125	<u>RPD (%)</u> 0.85	<u>RPD CL</u> (< 25)
Batch Information										
Analytical Batch: WDA4 Analytical Method: SM2 Instrument: Discrete Ar Analyst: EWW Analytical Date/Time: 9	21 4500P-B,E nalyzer 2	PM		Prep Prep Prep	Method: Date/Tim Initial Wt		osphorus (W 019 4:54:0 .00mL	,		

Print Date: 10/08/2019 4:39:43PM

Method Blank

SG

Blank ID: MB for HBN 1800523 [WXX/13060] Blank Lab ID: 1536931 Matrix: Water (Surface, Eff., Ground)

DIATIK LAD ID. 150

QC for Samples:

1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by SM21 4500-NH3 G

Parameter	<u>Results</u>	LOQ/CL	DL	<u>Units</u>
Ammonia-N	0.0500U	0.100	0.0310	mg/L
Batch Information Analytical Batch: WDA Analytical Method: SM Instrument: Discrete A Analyst: EWW	//21 4500-NH3 G Analyzer 2	Prep Me Prep Da Prep Init	tch: WXX13060 ethod: METHOD tte/Time: 10/6/20 tial Wt./Vol.: 6 m	019 6:00:00PM
Analytical Date/Time:	10/6/2019 11:08:27PM	Prep Ex	tract Vol: 6 mL	

Print Date: 10/08/2019 4:39:45PM

Method Blank

SG

Blank ID: MB for HBN 1800523 [WXX/13060] Blank Lab ID: 1536936 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by SM21 4500-NH3 G

Parameter	<u>Results</u>	LOQ/CL	DL	<u>Units</u>
Ammonia-N	0.0500U	0.100	0.0310	mg/L
Batch Information Analytical Batch: WDA Analytical Method: SM Instrument: Discrete A	/121 4500-NH3 G	Prep Me Prep Da	tch: WXX13060 sthod: METHOD te/Time: 10/6/20	019 6:00:00PM
Analyst: EWW Analytical Date/Time:	10/6/2019 11:55:11PM	1	tial Wt./Vol.: 6 m tract Vol: 6 mL	IL

Print Date: 10/08/2019 4:39:45PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195735 [WXX13060] Blank Spike Lab ID: 1536932 Date Analyzed: 10/06/2019 23:10 Spike Duplicate ID: LCSD for HBN 1195735 [WXX13060] Spike Duplicate Lab ID: 1536933 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by SM21 4500-NH3 G

		Blank Spike	e (mg/L)	S	Spike Dupli	cate (mg/L)			
Parameter	Spike	Result	<u>Rec (%)</u>	Spike	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Ammonia-N	1	1.12	112	1	1.17	117	(75-125)	4.80	(< 25)
Batch Information									
				-					
Analytical Batch: WDA46					p Batch: N				
Analytical Batch: WDA46 Analytical Method: SM21	1 4500-NH3 G			Pre	p Method:	METHOD	9 18.00		
Analytical Batch: WDA46	1 4500-NH3 G			Pre Pre	p Method: p Date/Tim	METHOD e: 10/06/201	9 18:00 Extract Vol:	: 6 mL	

Print Date: 10/08/2019 4:39:48PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195735 [WXX13060] Blank Spike Lab ID: 1536937 Date Analyzed: 10/06/2019 23:56 Spike Duplicate ID: LCSD for HBN 1195735 [WXX13060] Spike Duplicate Lab ID: 1536938 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010

Results by SM21 4500-NH3 G

		Blank Spike	e (mg/L)	5	Spike Dupli	cate (mg/L)			
Parameter	Spike	Result	<u>Rec (%)</u>	Spike	<u>Result</u>	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Ammonia-N	1	1.11	111	1	1.24	124	(75-125)	10.80	(< 25)
Batch Information									
Analytical Batch: WDA4	663			Pre	p Batch: W	/XX13060			
					p Batch: W p Method:				
Analytical Batch: WDA4	1 4500-NH3 G			Pre	p Method:		19 18:00		
Analytical Method: SM21	1 4500-NH3 G			Pre Pre	p Method: p Date/Tim	METHOD e: 10/06/201	19 18:00 Extract Vol	: 6 mL	

Print Date: 10/08/2019 4:39:48PM



MS Sample ID: 153693				Analysis Date: 10/06/2019 23:15								
MSD Sample ID: 1536	935 MSD			Analysis Date: 10/06/2019 23:16 Matrix: Water (Surface, Eff., Ground)								
	735001, 11957350											
1195	735008, 11957350	09, 119573	35010									
Results by SM21 4500-	NH3 G					.	<i>/ // </i>					
<u>arameter</u>	Sample	Ma <u>Spike</u>	trix Spike (<u>Result</u>	Spike (mg/L) <u>Result</u> <u>Rec (%)</u>		Spike Duplicate (<u>Spike Result</u>		<u>CL</u>	<u>RPD (%)</u>	RPD CL		
mmonia-N	0.117	1.00	1.16	104	1.00	1.10	<u>Rec (%)</u> 98	75-125	5.30	(< 25)		
Batch Information												
Analytical Batch: WDA Analytical Method: SM Instrument: Discrete Analyst: EWW Analytical Date/Time:	21 4500-NH3 G nalyzer 2)PM		Prep Prep Prep	Method: Date/Tin Initial W	ne: 10/6/2 t./Vol.: 6.0	a by SM21 4 2019 6:00:0 00mL		9 (W)			
Analytical Date/Time: 1	10/6/2019 11:15:10	DPM		Prep	Extract \	Vol: 6.00n	nL					

Print Date: 10/08/2019 4:39:50PM



Matrix: Water (Surface, Eff., Ground) QC for Samples: 1195735001, 1195735002, 1195735003, 1195735004, 1195735005, 1195735006, 1195735007, 1195735008, 1195735009, 1195735010 Results by SM21 4500-NH3 G Matrix Spike (mg/L) Spike (mg/L) Spike (mg/L) Spike Result Rec (%) Spike Result Rec (%) Spike Result Rec (%) OL RPD (%) RPD (%) OL Cl RPD (%) OL OL OL Addresses Result Rec (%) Spike Result Rec (%) OL OL	Matrix Spike Summa Original Sample ID: 1 MS Sample ID: 1530 MSD Sample ID: 1530	195735001 939 MS				Analysis	Date: 1	0/07/2019 0/07/2019 0/07/2019	0:01		
Matrix Spike (mg/L) Spike Duplicate (mg/L) arameter Sample Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD C mmonia-N 0.0722J 1.00 1.2 112 1.00 1.17 110 75-125 2.20 (< 25) Batch Information Prep Batch: WDA4663 Prep Batch: WXX13060 Prep Method: Ammonia by SM21 4500F prep (W) Prep Date/Time: 10/6/2019 6:00:00PM Prep Date/Time: 10/6/2019 6:00:00PM Instrument: Discrete Analyzer 2 Analyst: EWW Prep Initial Wt./Vol.: 6.00mL 6:00:00PM	QC for Samples: 11	95735001, 11957350			5735004, 11	Matrix:	Water (S	urface, Eff.	, Ground))	
arameter mmonia-NSample 0.0722JSpike 1.00Result 1.2Rec (%) 112Spike Nec (%) 1.00Result 1.17Rec (%) 110CL TORPD (%) 2.20RPD (%) (< 25)	Results by SM21 450	0-NH3 G									
mmonia-N0.0722J1.001.21121.001.1711075-1252.20(< 25			Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
Analytical Batch: WDA4663Prep Batch: WXX13060Analytical Method: SM21 4500-NH3 GPrep Method: Ammonia by SM21 4500F prep (W)Instrument: Discrete Analyzer 2Prep Date/Time: 10/6/2019 6:00:00PMAnalyst: EWWPrep Initial Wt./Vol.: 6.00mL	<u>Parameter</u> Ammonia-N										<u>RPD CL</u> (< 25)
Analytical Method:SM21 4500-NH3 GPrep Method:Ammonia by SM21 4500F prep (W)Instrument:Discrete Analyzer 2Prep Date/Time:10/6/20196:00:00PMAnalyst:EWWPrep Initial Wt./Vol.:6.00mL	Batch Information										
Instrument: Discrete Analyzer 2Prep Date/Time: 10/6/2019 6:00:00PMAnalyst: EWWPrep Initial Wt./Vol.: 6.00mL									1500E pren	(\\\)	
										((V V)	
Analytical Date/Time: 10///2019-12:01:31AM Prep Extract Vol: 6.00mL		. 10/7/2010 12:01:5	1 0 8 4								
	Analytical Date/Time	. 10/7/2019 12.01.5	IAW		Piep		01. 0.001	IL			

Print Date: 10/08/2019 4:39:50PM

SGS North America Inc.





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Locations Nationwide

Alaska New Jersey North Carolina

West Virgina

Maryland New York Indiana Kentucky

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	CLIENT:	Stenior								Sectio								
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	INVOICE TO:	QUO P.O		700415	>	A I N	G = GRAB MI = Multi		•	Xan	ste/		Ammonit	Mansy				
	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX MATRIX CODE		Incre- mental Soils	Bal	TSS	TC Callert	divite Ning	E	T tn/	Ttw/Manania/TP				REMARKS/ LOC ID
	MA-C	MWB	9125/19	1020	water	3	G		•	- ŧ	1	N	1	<u> </u>				
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			091251115	16:39	Alent	m J	kn.	Am	<u>ر</u>	(See	attach	ed Sam	ple Re	ceipt F	orm)	(See at	tached	I Sample Receipt Form)

[] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
 [] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms-and-conditions

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SGS	SGS Workorder #:	1	19	5735		9 5 7 3 5
	Review Criteria	Condition (Yes	, No, N/A	Exc	eptions No	oted below
<u>Cha</u>	ain of Custody / Temperature Requi				ermitted if sam	pler hand carries/delivers.
	Were Custody Seals intact? Note # &	location N/A	Absen	it		
	COC accompanied s	amples? Yes				
DOD: V	Vere samples received in COC corresponding					
	N/A **Exemption permitted if				·	• ·
Tem	perature blank compliant* (i.e., 0-6 °C aft	er CF)? Yes			@	2.6 °C Therm. ID: D52
			Coole		@	°C Therm. ID:
	thout a temperature blank, the "cooler temperature" wi DLER TEMP" will be noted to the right. "ambient" or "cl		Coole		@	°C Therm. ID:
	be noted if neither is available.		Coole		@	°C Therm. ID:
	*/6_000		Coole	r ID:	@	°C Therm. ID:
	*If >6°C, were samples collected <8 hours	s ago? N/A	1			
	If <0°C, were sample containers ic	e free? N/A	J			
Note: Identify co	ntainers received at non-compliant tempe Use form FS-0029 if more space is r					
Holding Tir	ne / Documentation / Sample Condition R	equirements	Note: R	efer to form F-083 "Samp	ble Guide" for sp	ecific holding times.
	Were samples received within holdin	g time? Yes				
Do samples matc	h COC** (i.e.,sample IDs,dates/times coll	ected)? No	Sampl	le 2 time is labeled a	s being "10:2	0." Proceeding per CoC.
**Note: If tim	es differ <1hr, record details & login per C	COC.				
***Note: If sample information	on on containers differs from COC, SGS will default to	COC information	ו			
	ests clear? (i.e., method is specified for a th multiple option for analysis (Ex: BTEX,					
				N/A ***Exemption	permitted for	metals (e.g,200.8/6020A).
Were proper con	tainers (type/mass/volume/preservative***	*)used? Yes				
	Volatile / LL-Hg Red	quirements				
Were Trip Bl	anks (i.e., VOAs, LL-Hg) in cooler with sa	mples? N/A				
Were all water VO	A vials free of headspace (i.e., bubbles \leq	6mm)? N/A				
We	re all soil VOAs field extracted with MeO⊢	I+BFB? N/A				
Note	to Client: Any "No", answer above indicates no	on-compliance	with sta	andard procedures and	d may impact	data quality.
	Additiona	al notes (if a	applica	ble):		



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> Condition	Container Id	<u>Preservative</u>	<u>Container</u> <u>Condition</u>
1195735001-A	No Preservative Required	ОК			
1195735001-B	Na2S2O3 for Chlorine Redu	OK			
1195735001-C	H2SO4 to pH < 2	OK			
1195735002-A	No Preservative Required	OK			
1195735002-B	No Preservative Required	OK			
1195735002-C	Na2S2O3 for Chlorine Redu	ОК			
1195735002-D	No Preservative Required	OK			
1195735002-E	Na2S2O3 for Chlorine Redu	OK			
1195735002-F	H2SO4 to pH < 2	OK			
1195735003-A	No Preservative Required	OK			
1195735003-B	No Preservative Required	OK			
1195735003-C	Na2S2O3 for Chlorine Redu	OK			
1195735003-D	No Preservative Required	OK			
1195735003-E	Na2S2O3 for Chlorine Redu	OK			
1195735003-F	H2SO4 to pH < 2	OK			
1195735004-A	No Preservative Required	OK			
1195735004-B	No Preservative Required	OK			
1195735004-C	Na2S2O3 for Chlorine Redu	OK			
1195735004-D	No Preservative Required	OK			
1195735004-E	Na2S2O3 for Chlorine Redu	OK			
1195735004-F	H2SO4 to pH < 2	OK			
1195735005-A	No Preservative Required	OK			
1195735005-B	Na2S2O3 for Chlorine Redu	OK			
1195735005-C	H2SO4 to pH < 2	OK			
1195735006-A	No Preservative Required	OK			
1195735006-B	Na2S2O3 for Chlorine Redu	OK			
1195735006-C	H2SO4 to pH < 2	OK			
1195735007-A	No Preservative Required	OK			
1195735007-B	No Preservative Required	OK			
1195735007-C	Na2S2O3 for Chlorine Redu	OK			
1195735007-D	No Preservative Required	OK			
1195735007-E	Na2S2O3 for Chlorine Redu	OK			
1195735007-F	H2SO4 to pH < 2	OK			
1195735008-A	No Preservative Required	OK			
1195735008-B	No Preservative Required	OK			
1195735008-C	Na2S2O3 for Chlorine Redu	OK			
1195735008-D	No Preservative Required	OK			
1195735008-E	Na2S2O3 for Chlorine Redu	OK			
1195735008-F	H2SO4 to pH < 2	OK			
1195735009-A	No Preservative Required	OK			
1195735009-B	Na2S2O3 for Chlorine Redu	OK			
1195735009-C	H2SO4 to pH < 2	OK			
1195735010-A	No Preservative Required Na2S2O3 for Chlorine Redu	OK			
1195735010-B		OK			
1195735010-C	H2SO4 to pH < 2	OK			

Container Id

<u>Preservative</u>

Container Condition Container Id

Preservative

Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

- BU The container was received with headspace greater than 6mm.
- DM The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added. QN - Insufficient sample quantity provided.



Laboratory Report of Analysis

To: Stantec Consulting Services Inc. 725 East Fireweed Lane Suite 200 Anchorage, AK 99503 (907)248-8883

Report Number: **1195771**

Client Project: Wasilla WWTP

Dear John Marshall,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Justin Nelson Project Manager Justin.Nelson@sgs.com Date

Print Date: 10/15/2019 1:13:42PM

SGS North America Inc.

200 West Potter Drive, Anchorage, AK 99518 t 907.562.2343 f 907.561.5301 www.us.sgs.com Results via Engage



Case Narrative

SGS Client: Stantec Consulting Services Inc. SGS Project: 1195771 Project Name/Site: Wasilla WWTP Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

SW16 (1195771003) PS

9223 - Quanti-Tray - Sample was also analyzed undiluted and showed 10 colonies of E.coli present.

1195743002DUP (1535480) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. The difference between sample and duplicate results is less than the LOQ.

1198801010MS (1538290) MS

4500N-D - Total Kjeldahl Nitrogen - MS recovery is outside of QC criteria. Refer to LCS for accuracy requirements.

1198801010MSD (1538291) MSD

4500N-D - Total Kjeldahl Nitrogen - MS/MSD RPD was outside of QC criteria. Refer to the LCS/LCSD RPD for precision requirement.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 10/15/2019 1:13:43PM

SGS North America Inc.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

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SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification, and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.
Sample summaries which i All DRO/RRO analyses are	nclude a result for "Total Solids" have already been adjusted for moisture content. integrated per SOP.

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Note:

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	:	Sample Summary	,	
Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW13	1195771001	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
MW12	1195771002	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
SW16	1195771003	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
SW15	1195771004	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
SW14	1195771005	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
MW13	1195771006	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
SHAW	1195771007	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
SW17	1195771008	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
SW18	1195771009	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
DUP 2	1195771010	09/26/2019	09/26/2019	Water (Surface, Eff., Ground)
Method	Method Des	scription		

SM21 4500-NH3 G SM21 5210B SM21 9222D EPA 300.0 SM21 4500-N D SM21 9223B SM21 4500P-B,E SM21 2540D

Interned Description

Ammonia-N (W) SM21 4500-NH3 G Biochemical Oxygen Demand SM21 5210B Fecal Coliform (MF) Ion Chromatographic Analysis TKN by Phenate (W) Total Coliform P/A Quant Tray Total Phosphorus (W) Total Suspended Solids SM20 2540D

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Detectable Results Summary

Lab Sample ID: 1195771001	Parameter	Result	Units
Microbiology Laboratory	E. Coli	9	MPN/100mL
	Fecal Coliform	6.0	col/100mL
	Total Coliform	866	MPN/100mL
Waters Department	Ammonia-N	0.0925J	mg/L
	Total Phosphorus	0.0380	mg/L
	Total Suspended Solids	12.6	mg/L
Client Sample ID: MW12			
Lab Sample ID: 1195771002	Parameter	Result	Units
Waters Department	Ammonia-N	0.0577J	mg/L
•		0.00110	iiig/L
Client Sample ID: SW16			
Lab Sample ID: 1195771003	Parameter	Result	<u>Units</u>
Microbiology Laboratory	Total Coliform	2360	MPN/100mL
Waters Department	Ammonia-N	0.0964J	mg/L
	Total Kjeldahl Nitrogen	0.405J	mg/L
	Total Phosphorus	0.151	mg/L
	Total Suspended Solids	146	mg/L
Client Sample ID: SW15			
Lab Sample ID: 1195771004	Parameter	Result	Units
Microbiology Laboratory	E. Coli	8	MPN/100mL
	Fecal Coliform	2.0	col/100mL
	Total Coliform	517	MPN/100mL
Waters Department	Ammonia-N	0.107	mg/L
	Total Phosphorus	0.00850J	mg/L
	Total Suspended Solids	12.4	mg/L
Client Sample ID: SW14			
Lab Sample ID: 1195771005	Parameter	Popult	Lipito
	E. Coli	<u>Result</u> 8	<u>Units</u> MPN/100mL
Microbiology Laboratory	Fecal Coliform	10	col/100mL
	Total Coliform	435	MPN/100mL
Watara Danartmart	Ammonia-N	435 0.0707J	
Waters Department		0.0333	mg/L
	Total Phosphorus Total Suspended Solids	16.3	mg/L mg/L
		10.0	
Client Sample ID: MW13			
Lab Sample ID: 1195771006	Parameter	<u>Result</u>	<u>Units</u>
Waters Department	Ammonia-N	0.262	mg/L

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Detectable Results Summary

Parameter	Desult	Lipito
		<u>Units</u> MPN/100mL
		col/100mL
		MPN/100mL
		mg/L
•		mg/L
I otal Suspended Solids	2.19	mg/L
Parameter	Result	Units
E. Coli	88	MPN/100mL
Fecal Coliform	70	col/100mL
Total Coliform	921	MPN/100mL
Ammonia-N	0.112	mg/L
Nitrate-N	2.43	mg/L
Total Nitrate/Nitrite-N	2.43	mg/L
Total Phosphorus	0.0670	mg/L
Total Suspended Solids	1.02	mg/L
•		0
		<u>Units</u>
		MPN/100mL
		col/100mL
		MPN/100mL
		mg/L
		mg/L
		mg/L
Total Phosphorus	0.266	mg/L
Total Suspended Solids	1.41	mg/L
Parameter	Result	Units
		mg/L
		MPN/100mL
		col/100mL
		MPN/100mL
		mg/L
		mg/L
i utai Filospilutus	0.007200	ilig/L
	E. Coli Fecal Coliform Total Coliform Ammonia-N Nitrate-N Total Nitrate/Nitrite-N Total Phosphorus Total Suspended Solids <u>Parameter</u> E. Coli Fecal Coliform Total Coliform Ammonia-N Nitrate-N Total Nitrate/Nitrite-N Total Phosphorus	E. Coli5Fecal Coliform4.0Total Coliform488Ammonia-N0.101Total Phosphorus0.0265Total Suspended Solids2.19ParameterResultE. Coli88Fecal Coliform70Total Coliform921Ammonia-N0.112Nitrate-N2.43Total Nitrate/Nitrite-N2.43Total Suspended Solids1.02ParameterResultE. Coli0.0670Total Suspended Solids1.02Vitrate-N2.43Total Nitrate/Nitrite-N2.43Total Suspended Solids1.02ParameterResultE. Coli20Fecal Coliform10Total Suspended Solids1.02ParameterResultE. Coli20Fecal Coliform10Total Coliform101Total Coliform1.0167Nitrate-N3.25Total Nitrate/Nitrite-N3.26Total Phosphorus0.266Total Suspended Solids1.41ParameterResultBiochemical Oxygen Demand2.77E. Coli8Fecal Coliform6.0Total Coliform6.0Total Coliform6.0Total Coliform6.0Total Coliform6.13Ammonia-N0.0927J

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Results of SW13 Client Sample ID: SW13 Client Project ID: Wasilla WWTP ab Sample ID: 1195771001 ab Project ID: 1195771		R M	eceived Da	ate: 09/26/19 1 ate: 09/26/19 10 er (Surface, Eff.,	6:00	
			ocation:			
Results by Microbiology Laboratory						
<u>arameter</u> liochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> D mg/L1	<u>Allowable</u> <u>F Limits</u>	Date Analyze 09/27/19 20:1
Analytical Batch: BOD6438 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/27/19 20:15 Container ID: 1195771001-D						
P <u>arameter</u> recal Coliform	<u>Result Qual</u> 6.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> D col/100mL 1		<u>Date Analyze</u> 09/26/19 17::
Batch Information Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771001-A						
<u>Parameter</u> Coli	<u>Result Qual</u> 9	LOQ/CL 1	<u>DL</u> 1	<u>Units</u> D MPN/100m1	<u>Allowable</u> <u>F Limits</u>	<u>Date Analyze</u> 09/26/19 17:4
otal Coliform	866	1	1	MPN/100m1		09/26/19 17:4
Batch Information Analytical Batch: BTF17674 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/26/19 17:43 Container ID: 1195771001-C						

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Results of SW13							
Client Sample ID: SW13 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771001 Lab Project ID: 1195771		Ri M Se	ollection Da eceived Dat atrix: Water olids (%): ocation:	te: 09/26/	19 16:00	und)	
Results by Waters Department			<u> </u>				
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/27/19 16 09/27/19 16 09/27/19 16
Batch Information							
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 16:05 Container ID: 1195771001-B		F F F	Prep Batch: M Prep Method: Prep Date/Tir Prep Initial W Prep Extract M	: METHOD me: 09/27/1 't./Vol.: 10 r	9 13:00		
Parameter Total Suspended Solids	<u>Result Qual</u> 12.6	<u>LOQ/CL</u> 1.04	<u>DL</u> 0.323	<u>Units</u> mg/L	<u>DF</u> 1	Allowable Limits	<u>Date Analyz</u> 09/30/19 17
Batch Information Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771001-E							
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	Allowable Limits	<u>Date Analyz</u> 10/12/19 16
Batch Information							
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 16:51 Container ID: 1195771001-F		F F F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	: METHOD me: 10/11/1 't./Vol.: 25 r	9 11:30		
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0925 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/07/19 00

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SGS Popults of SW13

Client Sample ID: SW13 Client Project ID: Wasilla WWTP .ab Sample ID: 1195771001 .ab Project ID: 1195771			Collection Dat Received Date Matrix: Water Solids (%): Location:	e: 09/26/	19 16:00		
Results by Waters Department							
Analytical Batch: WDA4663 Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:21 Container ID: 1195771001-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/ ./Vol.: 6 m	19 18:00		
Parameter Total Phosphorus	<u>Result Qual</u> 0.0380	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	Allowable Limits	<u>Date Analyzed</u> 10/07/19 16:03
Batch Information							
Analytical Batch: WDA4662 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 10/07/19 16:03 Container ID: 1195771001-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 10/07/ :./Vol.: 25	00P-B,E 19 14:06 mL		

Results of MW12						
Client Sample ID: MW12 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771002 Lab Project ID: 1195771		R M Se	eceived D	Date: 09/26/19 1 ate: 09/26/19 10 er (Surface, Eff.,	6:00	
Parameter Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> D col/100mL 1	<u>Allowable</u> <u>F Limits</u>	<u>Date Analyzed</u> 09/26/19 17:27
Batch Information Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771002-A						

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Results of MW12								
Client Sample ID: MW12 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771002 Lab Project ID: 1195771								
Results by Waters Department								
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	<u>LOQ/CL</u> 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyz 09/27/19 16: 09/27/19 16: 09/27/19 16:	
Batch Information								
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 16:43 Container ID: 1195771002-B		Prep Batch: WXX13036 Prep Method: METHOD Prep Date/Time: 09/27/19 13:00 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL						
Parameter Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/12/19 16	
Batch Information								
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 16:52 Container ID: 1195771002-C			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	METHOD ne: 10/11/1 t./Vol.: 25 r				
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0577 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/07/19 00	
Batch Information								
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:23 Container ID: 1195771002-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 10/06/1 t./Vol.: 6 m				

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Results of SW16							
Client Sample ID: SW16 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771003 Lab Project ID: 1195771		Collection Date: 09/26/19 11:30 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Microbiology Laboratory							
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/27/19 20:15
Batch Information							
Analytical Batch: BOD6438 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/27/19 20:15 Container ID: 1195771003-D							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100mL	<u>DF</u> . 1	Allowable Limits	Date Analyzed 09/26/19 17:27
Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771003-A							
<u>Parameter</u> E. Coli	<u>Result Qual</u> 10 U	<u>LOQ/CL</u> 10	<u>DL</u> 10	<u>Units</u> MPN/100r	<u>DF</u> r 10	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/26/19 17:43
Total Coliform	2360	10	10	MPN/100r			09/26/19 17:43
Batch Information							
Analytical Batch: BTF17674 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/26/19 17:43 Container ID: 1195771003-C							

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Results of SW16								
Client Sample ID: SW16 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771003 Lab Project ID: 1195771		Collection Date: 09/26/19 11:30 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department			<u> </u>					
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> Limits	<u>Date Analyz</u> 09/27/19 17 09/27/19 17 09/27/19 17	
Batch Information								
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 17:02 Container ID: 1195771003-B			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract V	METHOD me: 09/27/1 t./Vol.: 10 r				
Parameter Total Suspended Solids	<u>Result Qual</u> 146	<u>LOQ/CL</u> 2.00	<u>DL</u> 0.620	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/30/19 17	
Batch Information Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771003-E								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.405 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/12/19 16	
Batch Information								
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 16:53 Container ID: 1195771003-F			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 10/11/1 t./Vol.: 25 r				
Parameter Ammonia-N	<u>Result Qual</u> 0.0964 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	Allowable Limits	<u>Date Analyz</u> 10/07/19 00	

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Results of SW16 Client Sample ID: SW16 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771003 Lab Project ID: 1195771 Results by Waters Department Batch Information Analytical Batch: WDA4663

Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:28 Container ID: 1195771003-F

Prep Batch: WXX13060 Prep Method: METHOD Prep Date/Time: 10/06/19 18:00 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

Parameter	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u>	Date Analyzed
Total Phosphorus	0.151	0.0200	0.00500	mg/L	1	<u>Limits</u>	10/07/19 16:06
Batch Information Analytical Batch: WDA4662 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 10/07/19 16:06 Container ID: 1195771003-F		F	Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 10/07/1 ./Vol.: 25 r	0P-B,E 9 14:06 mL		

Print Date: 10/15/2019 1:13:46PM

Results of SW15							
Client Sample ID: SW15 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771004 Lab Project ID: 1195771		Collection Date: 09/26/19 11:40 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Microbiology Laboratory			<u> </u>				
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/27/19 20:1
Batch Information							
Analytical Batch: BOD6438 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/27/19 20:15 Container ID: 1195771004-D							
Parameter Fecal Coliform	<u>Result Qual</u> 2.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> col/100mL	<u>DF</u> 1	Allowable Limits	Date Analyze 09/26/19 17:2
Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771004-A							
	<u>Result Qual</u>	LOQ/CL 1	<u>DL</u> 1	<u>Units</u> MPN/100r	DF	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/26/19 17:4
Parameter	0	1	I				09/26/19 17:4
<u>Parameter</u> E. Coli Γotal Coliform	8 517	1	1	MPN/100r			
E. Coli Fotal Coliform		1	1	MPN/100r			
E. Coli		1	1	MPN/100r			

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Results of SW15								
Client Sample ID: SW15 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771004 Lab Project ID: 1195771		Collection Date: 09/26/19 11:40 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department			<u> </u>					
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> Limits	<u>Date Analyz</u> 09/27/19 17 09/27/19 17 09/27/19 17	
Batch Information								
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 17:21 Container ID: 1195771004-B		F F	Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD ne: 09/27/1 t./Vol.: 10 r	9 13:00			
Parameter Total Suspended Solids	<u>Result Qual</u> 12.4	<u>LOQ/CL</u> 1.05	<u>DL</u> 0.326	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/30/19 17	
Batch Information Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771004-E								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/12/19 16	
Batch Information								
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 16:54 Container ID: 1195771004-F		F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 10/11/1 t./Vol.: 25 r	9 11:30			
Parameter	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	Allowable Limits	Date Analyz	
Ammonia-N	0.107	0.100	0.0310	mg/L	1		10/07/19 00	

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SG: Results of SW15 Client Sample ID: SW15 Collection Date: 09/26/19 11:40 Received Date: 09/26/19 16:00 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771004 Matrix: Water (Surface, Eff., Ground) Lab Project ID: 1195771 Solids (%): Location: Results by Waters Department **Batch Information** Analytical Batch: WDA4663 Prep Batch: WXX13060 Analytical Method: SM21 4500-NH3 G Prep Method: METHOD Analyst: EWW Prep Date/Time: 10/06/19 18:00 Analytical Date/Time: 10/07/19 00:30 Prep Initial Wt./Vol.: 6 mL Container ID: 1195771004-F Prep Extract Vol: 6 mL

<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.00850 J	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 10/07/19 16:07
Batch Information							
Analytical Batch: WDA4662		I	Prep Batch: V	VXX13059			
Analytical Method: SM21 4500P-B,E		I	Prep Method:	SM21 450)0P-B,E		
Analyst: EWW		I	Prep Date/Tim	ne: 10/07/1	9 14:06		
Analytical Date/Time: 10/07/19 16:07		F	Prep Initial Wt	./Vol.: 25 r	nL		
Container ID: 1195771004-F		I	Prep Extract V	/ol: 25 mL			

Print Date: 10/15/2019 1:13:46PM

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Results of SW14 Client Sample ID: SW14 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771005 Lab Project ID: 1195771		Collection Date: 09/26/19 12:00 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory			<u> </u>					
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	Date Analyzed 09/27/19 20:1	
Batch InformationAnalytical Batch: BOD6438Analytical Method: SM21 5210BAnalyst: A.LAnalytical Date/Time: 09/27/19 20:15Container ID: 1195771005-D								
Parameter Fecal Coliform	<u>Result Qual</u> 10	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100mL	<u>DF</u> . 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/26/19 17:2	
Batch InformationAnalytical Batch: BTF17676Analytical Method: SM21 9222DAnalyst: A.LAnalytical Date/Time: 09/26/19 17:27Container ID: 1195771005-A								
P <u>arameter</u> E. Coli	<u>Result Qual</u> 8	LOQ/CL 1	<u>DL</u> 1	<u>Units</u> MPN/100r	<u>DF</u> r 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/26/19 17:4	
Total Coliform	435	1	1	MPN/100r			09/26/19 17:4	
Batch Information Analytical Batch: BTF17674 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/26/19 17:43 Container ID: 1195771005-C								

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Client Sample ID: SW14							
Client Project ID: Wasilla WWTP Lab Sample ID: 1195771005 Lab Project ID: 1195771		Collection Date: 09/26/19 12:00 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Waters Department			<u> </u>				
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> Limits	Date Analyze 09/27/19 17:4 09/27/19 17:4 09/27/19 17:4
Batch Information							
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 17:40 Container ID: 1195771005-B		F F F	Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/27/1 t./Vol.: 10 r			
<u>Parameter</u> Total Suspended Solids	Result Qual 16.3	<u>LOQ/CL</u> 1.04	<u>DL</u> 0.323	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/30/19 17::
Batch Information							
Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771005-E							
Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	Date Analyze
Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771005-E Parameter Total Kjeldahl Nitrogen							
Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771005-E Parameter		1.00 F F F F		mg/L WXX13067 METHOD ne: 10/11/1 t./Vol.: 25 r	1 9 11:30		

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Results of SW14									
Client Sample ID: SW14 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771005 Lab Project ID: 1195771			Collection Dat Received Dat Matrix: Water Solids (%): Location:	e: 09/26/ [,]	19 16:00	und)			
Results by Waters Department									
Batch Information									
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:31 Container ID: 1195771005-F		Prep Batch: WXX13060 Prep Method: METHOD Prep Date/Time: 10/06/19 18:00 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL							
						Allowable			
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.0333	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	<u>Date Analyzed</u> 10/07/19 16:10		
Batch Information									
Analytical Batch: WDA4662 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 10/07/19 16:10 Container ID: 1195771005-F			Prep Batch: V Prep Method: Prep Date/Tin Prep Initial Wi Prep Extract V	SM21 450 ne: 10/07/1 t./Vol.: 25 i	0P-B,E I9 14:06 mL				
Print Date: 10/15/2019 1:13:46PM						J flaggin	g is activated		

Results of MW13							
Client Sample ID: MW13 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771006 Lab Project ID: 1195771		R M S	ollection D eceived D latrix: Wate olids (%): ocation:				
Results by Microbiology Laboratory Parameter Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100ml	<u>DF</u> - 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/26/19 17:27
Batch Information Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771006-A							

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Results of MW13							
Client Sample ID: MW13 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771006 Lab Project ID: 1195771		 	Collection Da Received Dat Matrix: Water Solids (%): Location:	te: 09/26/1	19 16:00	und)	
Results by Waters Department							
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/27/19 18: 09/27/19 18: 09/27/19 18:
Batch Information Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 18:37 Container ID: 1195771006-B			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	: METHOD me: 09/27/1 't./Vol.: 10 r			
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	<u>Date Analyze</u> 10/12/19 17:
Batch Information Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 17:00 Container ID: 1195771006-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	: METHOD me: 10/11/1 't./Vol.: 25 r			
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.262	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	<u>Date Analyze</u> 10/07/19 00:
Batch Information Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:33 Container ID: 1195771006-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	: METHOD me: 10/06/1 't./Vol.: 6 m	9 18:00		

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Client Sample ID: SHAW Client Project ID: Wasilla WWTP		Collection Date: 09/26/19 12:51 Received Date: 09/26/19 16:00							
ab Project ID: 1195771007		Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Microbiology Laboratory									
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	Date Analyze 09/27/19 20:1		
Batch InformationAnalytical Batch: BOD6438Analytical Method: SM21 5210BAnalyst: A.LAnalytical Date/Time: 09/27/19 20:15Container ID: 1195771007-D									
P <u>arameter</u> Fecal Coliform	Result Qual 4.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> col/100mL	<u>DF</u> . 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/26/19 17:2		
Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771007-A									
P <u>arameter</u> E. Coli Fotal Coliform	Result Qual 5 488	<u>LOQ/CL</u> 1 1	<u>DL</u> 1 1	<u>Units</u> MPN/100r MPN/100r		<u>Allowable</u> Limits	Date Analyze 09/26/19 17:4 09/26/19 17:4		
Analytical Batch: BTF17674 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/26/19 17:43 Container ID: 1195771007-C									

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Results of SHAW								
Client Sample ID: SHAW Client Project ID: Wasilla WWTP Lab Sample ID: 1195771007 Lab Project ID: 1195771		Collection Date: 09/26/19 12:51 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department)——					
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.100 U	<u>LOQ/CL</u> 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/27/19 18: 09/27/19 18: 09/27/19 18:	
Batch Information								
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 18:56 Container ID: 1195771007-B		F F F	Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	: METHOD me: 09/27/1 't./Vol.: 10 r	9 13:00			
Parameter Total Suspended Solids	<u>Result Qual</u> 2.19	<u>LOQ/CL</u> 1.04	<u>DL</u> 0.323	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/30/19 17	
Batch Information								
Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771007-E								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/12/19 17:	
Batch Information								
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 17:01 Container ID: 1195771007-F		F F F	Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	: METHOD me: 10/11/1 't./Vol.: 25 r	9 11:30			
Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyz	
	1 COULT QUUI	0.100	0.0310	mg/L	1		10/07/19 00	

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Results of SHAW							
Client Sample ID: SHAW Client Project ID: Wasilla WWTP .ab Sample ID: 1195771007 .ab Project ID: 1195771			Collection Dat Received Date Matrix: Water Solids (%): Location:				
Results by Waters Department			_				
Batch Information							
Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:35 Container ID: 1195771007-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	METHOD ne: 10/06/* t./Vol.: 6 m	9 18:00		
Parameter Total Phosphorus	<u>Result Qual</u> 0.0265	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 10/07/19 16:1
Batch Information							
Analytical Batch: WDA4662 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 10/07/19 16:11 Container ID: 1195771007-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 10/07/1 t./Vol.: 25	0P-B,E I9 14:06 mL		

Results of SW17 Client Sample ID: SW17		C	ollection D	ate: 09/26/19	0 13·45		
Client Project ID: Wasilla WWTP ab Sample ID: 1195771008 ab Project ID: 1195771		Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Microbiology Laboratory]				
P <u>arameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	Date Analyzed
Batch Information Analytical Batch: BOD6438 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/27/19 20:15 Container ID: 1195771008-D							
P <u>arameter</u> Fecal Coliform	<u>Result Qual</u> 70	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> col/100mL	<u>DF</u> . 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/26/19 17:2
Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771008-A							
P <u>arameter</u> Coli	<u>Result Qual</u> 88	LOQ/CL 1	<u>DL</u> 1	<u>Units</u> MPN/100r	<u>DF</u> r 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 09/26/19 17:4
otal Coliform	921	1	1	MPN/100r			09/26/19 17:4
Batch Information Analytical Batch: BTF17674 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/26/19 17:43 Container ID: 1195771008-C							

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Results of SW17								
Client Sample ID: SW17 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771008 Lab Project ID: 1195771		Collection Date: 09/26/19 13:45 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department			1					
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 2.43 0.100 U 2.43	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> Limits	<u>Date Analyz</u> 09/27/19 19 09/27/19 19 09/27/19 19	
Batch Information								
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 19:15 Container ID: 1195771008-B		F F F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 09/27/1 t./Vol.: 10 r	9 13:00			
Parameter Total Suspended Solids	<u>Result Qual</u> 1.02	<u>LOQ/CL</u> 1.02	<u>DL</u> 0.316	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/30/19 17	
Batch Information Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771008-E								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	Allowable Limits	<u>Date Analyz</u> 10/12/19 17	
Batch Information								
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 17:02 Container ID: 1195771008-F		F F F	Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD me: 10/11/1 t./Vol.: 25 r	9 11:30			
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.112	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/07/19 00	

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Results of SW17 Client Sample ID: SW17 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771008

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Results of SW17								
Client Sample ID: SW17 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771008 Lab Project ID: 1195771		Collection Date: 09/26/19 13:45 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
Batch Information Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:36 Container ID: 1195771008-F			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial Wi Prep Extract N	METHOD ne: 10/06/ t./Vol.: 6 m	19 18:00			
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.0670	<u>LOQ/CL</u> 0.0200	<u>DL</u> 0.00500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 10/07/19 16:12	
Batch Information Analytical Batch: WDA4662 Analytical Method: SM21 4500P-B,E Analys: EWW Analytical Date/Time: 10/07/19 16:12 Container ID: 1195771008-F			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial Wi Prep Extract N	SM21 450 ne: 10/07/1 t./Vol.: 25	00P-B,E 19 14:06 mL			

Results of SW18								
Client Sample ID: SW18 Client Project ID: Wasilla WWTP .ab Sample ID: 1195771009 .ab Project ID: 1195771		Collection Date: 09/26/19 14:15 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory								
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 2.00 U	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	Date Analyzed 09/27/19 20:1	
Batch Information								
Analytical Batch: BOD6438 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/27/19 20:15 Container ID: 1195771009-D								
Parameter Tecal Coliform	<u>Result Qual</u> 10	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100mL	<u>DF</u> . 1	Allowable Limits	Date Analyze 09/26/19 17:2	
Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771009-A								
<u>Parameter</u> E. Coli	<u>Result Qual</u> 20	LOQ/CL 1	<u>DL</u> 1	<u>Units</u> MPN/100r	<u>DF</u> ז 1	Allowable Limits	<u>Date Analyze</u> 09/26/19 17:4	
otal Coliform	1414	1	1	MPN/100r	r 1		09/26/19 17:4	
Batch Information								
Analytical Batch: BTF17674 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/26/19 17:43 Container ID: 1195771009-C								

Print Date: 10/15/2019 1:13:46PM

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Results of SW18								
Client Sample ID: SW18 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771009 Lab Project ID: 1195771		Collection Date: 09/26/19 14:15 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department								
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 3.25 0.100 U 3.26	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 09/27/19 19 09/27/19 19 09/27/19 19	
Batch Information								
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 19:34 Container ID: 1195771009-B		F F F	Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 09/27/1 t./Vol.: 10 r	9 13:00			
Parameter Total Suspended Solids	<u>Result Qual</u> 1.41	<u>LOQ/CL</u> 1.01	<u>DL</u> 0.313	<u>Units</u> mg/L	<u>DF</u> 1	Allowable Limits	<u>Date Analyz</u> 09/30/19 17	
Batch Information Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771009-E								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/12/19 17	
Batch Information								
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 17:03 Container ID: 1195771009-F		F F F	Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD me: 10/11/1 t./Vol.: 25 r	9 11:30			
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.167	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/07/19 00	

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Results of SW18

Client Sample ID: SW18 Collection Date: 09/26/19 14:15 Received Date: 09/26/19 16:00 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771009 Matrix: Water (Surface, Eff., Ground) Lab Project ID: 1195771 Solids (%): Location: Results by Waters Department **Batch Information** Analytical Batch: WDA4663 Prep Batch: WXX13060 Analytical Method: SM21 4500-NH3 G Prep Method: METHOD Analyst: EWW Prep Date/Time: 10/06/19 18:00 Prep Initial Wt./Vol.: 6 mL Analytical Date/Time: 10/07/19 00:38 Container ID: 1195771009-F Prep Extract Vol: 6 mL Allowable Parameter Result Qual LOQ/CL Units DF Date Analyzed DL <u>Limits</u> **Total Phosphorus** 0.266 0.0200 0.00500 mg/L 1 10/07/19 16:13 **Batch Information** Analytical Batch: WDA4662 Prep Batch: WXX13059 Analytical Method: SM21 4500P-B,E Prep Method: SM21 4500P-B,E Analyst: EWW Prep Date/Time: 10/07/19 14:06 Analytical Date/Time: 10/07/19 16:13 Prep Initial Wt./Vol.: 25 mL Container ID: 1195771009-F Prep Extract Vol: 25 mL Print Date: 10/15/2019 1:13:46PM J flagging is activated

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Client Sample ID: DUP 2 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771010 Lab Project ID: 1195771		Collection Date: 09/26/19 11:42 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory								
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 2.77	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 09/27/19 20:15	
Batch Information Analytical Batch: BOD6438 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 09/27/19 20:15 Container ID: 1195771010-D								
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 6.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> col/100mL	<u>DF</u> 1	<u>Allowable</u> Limits	Date Analyzed 09/26/19 17:27	
Batch Information Analytical Batch: BTF17676 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/26/19 17:27 Container ID: 1195771010-A								
<u>Parameter</u> E. Coli	<u>Result Qual</u> 8	LOQ/CL 1	<u>DL</u> 1	<u>Units</u> MPN/100r	DF r 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/26/19 17:43	
Total Coliform	613	1	1	MPN/100r			09/26/19 17:43	
Batch Information Analytical Batch: BTF17674 Analytical Method: SM21 9223B Analyst: ACF Analytical Date/Time: 09/26/19 17:43 Container ID: 1195771010-C								

Print Date: 10/15/2019 1:13:46PM

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Results of DUP 2									
Client Sample ID: DUP 2 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771010 Lab Project ID: 1195771		Collection Date: 09/26/19 11:42 Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:							
Results by Waters Department]						
Parameter Nitrate-N	<u>Result Qual</u> 0.100 U	<u>LOQ/CL</u> 0.200	<u>DL</u> 0.0500	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/27/19 19:		
Nitrite-N Fotal Nitrate/Nitrite-N	0.100 U 0.100 U	0.200 0.200	0.0500 0.0500	mg/L mg/L	1 1		09/27/19 19: 09/27/19 19:		
Batch Information									
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 19:53 Container ID: 1195771010-B									
P <u>arameter</u> Total Suspended Solids	<u>Result Qual</u> 56.6	<u>LOQ/CL</u> 1.06	<u>DL</u> 0.330	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/30/19 17:		
Analytical Batch: STS6505 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 09/30/19 17:35 Container ID: 1195771010-E									
² arameter ^T otal Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/12/19 17:		
Analytical Batch: WDA4665 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 10/12/19 17:05 Container ID: 1195771010-F			Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	METHOD ne: 10/11/1 t./Vol.: 25 r	9 11:30				
Parameter Ammonia-N	<u>Result Qual</u> 0.0927 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	Date Analyze		

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SG: Results of DUP 2 Client Sample ID: DUP 2 Collection Date: 09/26/19 11:42 Client Project ID: Wasilla WWTP Lab Sample ID: 1195771010 Lab Project ID: 1195771

Received Date: 09/26/19 16:00 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/07/19 00:40 Container ID: 1195771010-F

Prep Batch: WXX13060 Prep Method: METHOD Prep Date/Time: 10/06/19 18:00 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u>	Date Analyzed
Total Phosphorus	0.00720 J	0.0200	0.00500	mg/L	1	<u>Limits</u>	10/07/19 16:13
Batch Information Analytical Batch: WDA4662 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 10/07/19 16:13 Container ID: 1195771010-F			Prep Batch: V Prep Method: Prep Date/Tim Prep Initial Wt Prep Extract V	SM21 450 ne: 10/07/1 /Vol.: 25 i	0P-B,E 9 14:06		

Print Date: 10/15/2019 1:13:46PM

J flagging is activated

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- Method Blank]			
Blank ID: MB for HBN 1800 Blank Lab ID: 1534885	Matrix	: Water (Surf	face, Eff., Ground)		
QC for Samples: 1195771001, 1195771003, 119	95771004, 1195771005, 11	95771007, 1195771008	, 1195771009,	1195771010	
Results by SM21 5210B)			
Parameter	<u>Results</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	
Biochemical Oxygen Demand	2.00U	2.00	2.00	mg/L	
Batch Information					
Analytical Batch: BOD6438 Analytical Method: SM21 5 Instrument: Analyst: A.L Analytical Date/Time: 9/27/	210B				

Print Date: 10/15/2019 1:13:50PM

SGS	

Blank Spike Summary		
Blank Spike ID: LCS for HBN 1195771 [BOD6438 Blank Spike Lab ID: 1534886 Date Analyzed: 09/27/2019 20:15		
	Matrix: Water (Surface,	Eff., Ground)
QC for Samples: 1195771001, 1195771003, 1195 1195771010	5771004, 1195771005, 1195771007, 11957710	008, 1195771009,
Results by SM21 5210B		
Blank Spike	e (mg/L)	
Parameter Spike Result	<u>Rec (%)</u>	<u>CL</u>
Biochemical Oxygen Demand 198 227	115	(84.6-115.4
Batch Information		
Analytical Batch: BOD6438 Analytical Method: SM21 5210B Instrument: Analyst: A.L		
Print Date: 10/15/2019 1:13:52PM		

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SGS

Method Blank

Blank ID: MB for HBN 1800047 [BTF/17674] Blank Lab ID: 1534589 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195771001, 1195771003, 1195771004, 1195771005, 1195771007, 1195771008, 1195771009, 1195771010

Parameter	Results	LOQ/CL	DL	<u>Units</u>	
Total Coliform	1U	1	1	MPN/100m	
E. Coli	1U	1	1	MPN/100m	

Analytical Batch: BTF17674 Analytical Method: SM21 9223B Instrument: Analyst: ACF Analytical Date/Time: 9/26/2019 5:43:23PM

Print Date: 10/15/2019 1:13:53PM

SGS

Method Blank

Blank ID: MB for HBN 1800051 [BTF/17676] Blank Lab ID: 1534599 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195771001, 1195771002, 1195771003, 1195771004, 1195771005, 1195771006, 1195771007, 1195771008, 1195771009, 1195771010

Results by SM21 9222D

	•				
Parameter	Results	LOQ/CL	DL	<u>Units</u>	
Fecal Coliform	1.00U	1.00	1.00	col/100mL	
Batch Information					
Analytical Batch: BTF					
Analytical Method: SM Instrument:	121 9222D				
Analyst: A.L					
Analytical Date/Time:	9/26/2019 5:27:47PM				

Print Date: 10/15/2019 1:13:54PM

SGS	

Method Blank					
Blank ID: MB for HBN 180 Blank Lab ID: 1535476	Blank ID: MB for HBN 1800204 [STS/6505] Blank Lab ID: 1535476			ace, Eff., Ground)	
QC for Samples: 1195771001, 1195771003, 1	195771004, 1195771005, 119	5771007, 1195771008	, 1195771009,	1195771010	
Results by SM21 2540D					
Parameter	Results	LOQ/CL	<u>DL</u>	<u>Units</u>	
Total Suspended Solids	0.500U	1.00	0.310	mg/L	
Batch Information					
Analytical Batch: STS650 Analytical Method: SM21 Instrument: Analyst: EWW					
Analytical Date/Time: 9/3	0/2019 5:35:02PM				

Print Date: 10/15/2019 1:13:56PM

SGS	

- Duplicate Sample Summary					
Original Sample ID: 1195734001 Duplicate Sample ID: 1535479 QC for Samples:)		
Results by SM21 2540D		<u> </u>			
NAME	<u>Original</u>	Duplicate	<u>Units</u>	<u>RPD (%)</u>	RPD CL
Total Suspended Solids	61.3	62.0	mg/L	1.20	(< 5)
Batch Information Analytical Batch: STS6505 Analytical Method: SM21 2540E Instrument: Analyst: EWW)				
Print Date: 10/15/2019 1:13:57PM					

SGS	

original Sample ID: 119574	3002		Analysis Date: 09/30/2019 17:35						
uplicate Sample ID: 15354			Matrix: Water (Surface, Eff., Ground)						
C for Samples:									
195771001, 1195771003, ⁻	1195771004, 1195	771005, 1195771007,	1195771008, 119	5771009, 1195771	010				
Results by SM21 2540D									
JAME_	<u>Original</u>	Duplicate	<u>Units</u>	<u>RPD (%)</u>	RPD CL				
otal Suspended Solids	71.0	66.5	mg/L	6.50*	(< 5)				
Batch Information									
Analytical Batch: STS6505 Analytical Method: SM21 25 Instrument: Analyst: EWW	40D								

Print Date: 10/15/2019 1:13:57PM

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I									
Blank Spike Summary									
Blank Spike ID: LCS for HBN Blank Spike Lab ID: 1535477 Date Analyzed: 09/30/2019	7	[STS6505]		[S ⁻ Sp	TS6505] ike Duplica	ite Lab ID:	D for HBN 1 1535478 Eff., Ground		
QC for Samples: 1195771 1195771	001, 119577 010	71003, 11957	771004, 119	95771005	, 119577100	07, 11957710	008, 1195771	009,	
Results by SM21 2540D									
		Blank Spike	(ma/L)		Spike Duplic	rate (mg/L)			
Parameter	Spike	Result	<u>Rec (%)</u>	Spike	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Suspended Solids	25	25.1	100	25	24.7	99	(75-125)	1.60	(< 5)
Batch Information									
Analytical Batch: STS6505 Analytical Method: SM21 254 Instrument: Analyst: EWW	DD								

Print Date: 10/15/2019 1:13:58PM

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Method Blank

Blank ID: MB for HBN 1800133 [WXX/13036] Blank Lab ID: 1535061 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195771001, 1195771002, 1195771003, 1195771004, 1195771005, 1195771006, 1195771007, 1195771008, 1195771009, 1195771010

Results by EPA 300.0

Parameter	Results	LOQ/CL	<u>DL</u>	<u>Units</u>
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.0560J	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.0710J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 9/27/2019 3:08:44PM Prep Batch: WXX13036 Prep Method: METHOD Prep Date/Time: 9/27/2019 1:00:00PM Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

Print Date: 10/15/2019 1:13:59PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195771 [WXX13036] Blank Spike Lab ID: 1535062 Date Analyzed: 09/27/2019 15:27

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195771001, 1195771002, 1195771003, 1195771004, 1195771005, 1195771006, 1195771007, 1195771008, 1195771009, 1195771010

<u>CL</u>
(90-110)
(90-110)
(90-110)

Batch Information

Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Prep Batch: WXX13036 Prep Method: METHOD Prep Date/Time: 09/27/2019 13:00 Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2019 1:14:00PM



Matrix Spike Summary										
Original Sample ID: 1535059 MS Sample ID: 1535064 MS MSD Sample ID:					Analysis Analysis	Date: 0 Date:	9/27/2019 9/27/2019 urface, Eff.	16:24		
	01, 119577100 08, 119577100			95771004, 11	195771005	5, 119577	1006, 11957	71007,		
Results by EPA 300.0										$ \longrightarrow $
		Mat	trix Spike ((mg/L)	Spike	e Duplicat	e (mg/L)			
Parameter	Sample	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Nitrate-N	0.100U	5.00	4.88	98				90-110		
Nitrite-N	0.100U	5.00	5.15	103				90-110		
Batch Information										
Analytical Batch: WIC5970				Prei	o Batch: V	VXX1303	6			
Analytical Method: EPA 300.				Pre	o Method:	EPA 300	.0 Extraction		iquids	
Instrument: 930 Metrohm co Analyst: DMM	mpact IC flex				o Date/Tim o Initial Wt		019 1:00:0	0PM		
Analytical Date/Time: 9/27/2	019 4:24:41	PM			o Extract V					



Matrix Spike Summary			<u> </u>						
Original Sample ID: 15350 MS Sample ID: 1535065 M MSD Sample ID:					Analysis Date: 09 Analysis Date: 09 Analysis Date: Matrix: Water (Su	/27/2019	22:25		
	001, 119577100 008, 119577100			5771004, 11	95771005, 1195771	006, 11957	71007,		
Results by EPA 300.0									$ \longrightarrow$
		Mat	rix Spike (ı		Spike Duplicate				
<u>Parameter</u> Nitrate-N	<u>Sample</u> 0.112J	<u>Spike</u> 5.00	<u>Result</u> 4.96	<u>Rec (%)</u> 97	<u>Spike</u> <u>Result</u>	<u>Rec (%)</u>	<u>CL</u> 90-110	<u>RPD (%)</u>	RPD CL
Nitrite-N	0.100U	5.00	5.01	100			90-110		
Batch Information									
Analytical Batch: WIC5970 Analytical Method: EPA 30 Instrument: 930 Metrohm of Analyst: DMM Analytical Date/Time: 9/27	00.0 compact IC flex	PM		Prep Prep Prep	9 Batch: WXX13036 9 Method: EPA 300. 9 Date/Time: 9/27/20 9 Initial Wt./Vol.: 10. 9 Extract Vol: 10.00n)19 1:00:0)0mL		iquids	
Print Date: 10/15/2019 1:14:01PM									

SGS

ults by SM21 4500P-B,E <u>imeter</u> <u>Results</u> I Phosphorus 0.0100U	LOQ/CL DL Units	
	0.0200 0.00500 mg/L	
n Information		
nalytical Batch: WDA4662 nalytical Method: SM21 4500P-B,E hstrument: Discrete Analyzer 2 nalyst: EWW nalytical Date/Time: 10/7/2019 3:58:51PM	Prep Batch: WXX13059 Prep Method: SM21 4500P-B,E Prep Date/Time: 10/7/2019 2:06:00F Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL	PM

Print Date: 10/15/2019 1:14:02PM



Blank Spike Summary											
Blank Spike ID: LCS for HI Blank Spike Lab ID: 15368 Date Analyzed: 10/07/207	70	WXX1305	9]	Spike Duplicate ID: LCSD for HBN 1195771 [WXX13059] Spike Duplicate Lab ID: 1536871 Matrix: Water (Surface, Eff., Ground)							
QC for Samples: 11957 11957	71001, 119577 71010	1003, 1195	5771004, 119	95771005,	119577100	07, 1195771	008, 1195771	009,			
Results by SM21 4500P-B	,E										
· · · · · · · · · · · · · · · · · · ·	E	Blank Spike	e (mg/L)	S							
Parameter	Spike	Result	Rec (%)	Spike Duplicate (mg/L) <u>Spike Result Rec (%)</u> <u>CL</u> <u>RPD (%)</u> <u>RF</u>							
Total Phosphorus	0.2	0.199	99	0.2	0.195	98	(75-125)	1.70	(< 25)		
Batch Information											
Analytical Method: SM21 4 Instrument: Discrete Analy Analyst: EWW				Prej Spił	o Date/Tim ke Init Wt./\						

Print Date: 10/15/2019 1:14:03PM



			_							
Matrix Spike Summar Original Sample ID: 11 MS Sample ID: 15368 MSD Sample ID: 1536			Analysis Analysis	Date: 10 Date: 10)/07/2019)/07/2019)/07/2019)/07/2019 urface, Eff.	16:04 16:05				
	5771001, 11957710 5771010	03, 119577	71004, 119	5771005, 11		-			,	
Results by SM21 4500	P-B,E									
		Ma	trix Spike (mg/L)	Spike Duplicate (mg/L)					
<u>arameter</u> otal Phosphorus	<u>Sample</u> 0.0380	<u>Spike</u> 0.200	<u>Result</u> .244	<u>Rec (%)</u> 103	<u>Spike</u> 0.200	<u>Result</u> 0.238	<u>Rec (%)</u> 100	<u>CL</u> 75-125	<u>RPD (%)</u> 2.60	<u>RPD CL</u> (< 25)
Analytical Batch: WD/ Analytical Method: SM Instrument: Discrete / Analyst: EWW Analytical Date/Time:	/l21 4500P-B,E Analyzer 2	PM		Prep Prep Prep	Method: Date/Tim Initial Wt		osphorus (W 019 2:06:0 00mL			

Print Date: 10/15/2019 1:14:04PM

Method Blank

SG

Blank ID: MB for HBN 1800523 [WXX/13060] Blank Lab ID: 1536931 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195771001, 1195771002, 1195771003, 1195771004, 1195771005, 1195771006, 1195771007, 1195771008, 1195771009, 1195771010

Results by SM21 4500-NH3 G

Parameter	Results	LOQ/CL	DL	<u>Units</u>	
Ammonia-N	0.0500U	0.100	0.0310	mg/L	
Batch Information					
Analytical Batch: WD			tch: WXX13060		
Analytical Method: S	M21 4500-NH3 G	Prep Me	thod: METHOD)	
Instrument: Discrete	Analyzer 2	Prep Da	te/Time: 10/6/20	019 6:00:00PM	
Analyst: EWW		Prep Init	ial Wt./Vol.: 6 m	۱L	
Analytical Date/Time:	10/6/2019 11:08:27PM	Prep Ext	ract Vol: 6 mL		
-					

Print Date: 10/15/2019 1:14:04PM

Method Blank

SG

Blank ID: MB for HBN 1800523 [WXX/13060] Blank Lab ID: 1536936 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195771001, 1195771002, 1195771003, 1195771004, 1195771005, 1195771006, 1195771007, 1195771008, 1195771009, 1195771010

Results by SM21 4500-NH3 G

Parameter	<u>Results</u>	LOQ/CL	<u>DL</u>	<u>Units</u>
Ammonia-N	0.0500U	0.100	0.0310	mg/L
Batch Information				
Analytical Batch: WD	A4663	Prep Bat	tch: WXX13060)
Analytical Method: SI		Prep Me	thod: METHOD)
Instrument: Discrete	Analyzer 2	Prep Da	te/Time: 10/6/20	019 6:00:00PM
Analyst: EWW	-	Prep Init	ial Wt./Vol.: 6 m	۱L
Analytical Date/Time:	10/6/2019 11:55:11PM	Prep Ext	ract Vol: 6 mL	
-				

Print Date: 10/15/2019 1:14:04PM



Blank Spike Summary												
Blank Spike ID: LCS for HI Blank Spike Lab ID: 15369 Date Analyzed: 10/06/20	32	WXX13060)]	Spike Duplicate ID: LCSD for HBN 1195771 [WXX13060] Spike Duplicate Lab ID: 1536933 Matrix: Water (Surface, Eff., Ground)								
•	71001, 119577 71008, 119577	-		95771004,	119577100	05, 1195771	006, 1195771	007,				
Results by SM21 4500-NH												
	F	Blank Spike	(mg/L)	e e	Spike Dupli	cate (mg/L)						
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL			
mmonia-N	1	1.12	112	1	1.17	117	(75-125)	4.80	(< 25)			
Batch Information												
Analytical Batch: WDA4663	3			Pre	p Batch: N	/XX13060						
Analytical Method: SM21 4					p Method:							
						e: 10/06/201	9 18:00					
Instrument Discrete Analy							Extract Vol:	6 ml				
Instrument: Discrete Analy Analyst: EWW												

Print Date: 10/15/2019 1:14:06PM



Blank Spike Summary												
Blank Spike ID: LCS for HB Blank Spike Lab ID: 153693 Date Analyzed: 10/06/2019	37	[WXX13060)]	Spike Duplicate ID: LCSD for HBN 1195771 [WXX13060] Spike Duplicate Lab ID: 1536938 Matrix: Water (Surface, Eff., Ground)								
•	1001, 11957 1008, 11957			95771004,	119577100	05, 1195771	006, 1195771	007,				
Results by SM21 4500-NH3	G		_									
		Blank Spike	(mg/L)	5	Spike Dupli	cate (mg/L)						
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL			
mmonia-N	1	1.11	111	1	1.24	124	(75-125)	10.80	(< 25)			
Batch Information												
Analytical Batch: WDA4663				Pre	p Batch: N	/XX13060						
Analytical Method: SM21 45	00-NH3 G			Pre	p Method:	METHOD						
Instrument: Diserste Analy	er 2			Pre	p Date/Tim	e: 10/06/201	19 18:00					
Instrument: Discrete Analyz				Spi	ke Init Wt./\		Extract Vol:					
Analyst: EWW						/ol.: 1 mg/L						

Print Date: 10/15/2019 1:14:06PM



Matrix Spike Summar	у									
Driginal Sample ID: 11 MS Sample ID: 15369 MSD Sample ID: 1536			Analysis Analysis	Date: 1 Date: 1	0/06/2019 0/06/2019 0/06/2019 urface, Eff.	23:15 23:16				
	5771001, 11957710 5771008, 11957710			95771004, 11						
Results by SM21 4500	-NH3 G									
		Ма	itrix Spike (x Spike (mg/L)		Spike Duplicate (mg/L)				
<u>irameter</u> nmonia-N	<u>Sample</u> 0.117	<u>Spike</u> 1.00	<u>Result</u> 1.16	<u>Rec (%)</u> 104	<u>Spike</u> 1.00	<u>Result</u> 1.10	<u>Rec (%)</u> 98	<u>CL</u> 75-125	<u>RPD (%)</u> 5.30	<u>RPD CL</u> (< 25)
Batch Information Analytical Batch: WD/	A4663			Prer	Batch: \	VXX1306	<u>ר</u>			
Analytical Method: SN Instrument: Discrete A Analyst: EWW	/l21 4500-NH3 G			Prep Prep	Method: Date/Tin	Ammonia	a by SM21 4 2019 6:00:0		(W)	
Analytical Date/Time:	10/6/2019 11:15:10	0PM				/ol: 6.00n				

Print Date: 10/15/2019 1:14:07PM



- Matrix Spike Summary											
Original Sample ID: 1195735001 MS Sample ID: 1536939 MS MSD Sample ID: 1536940 MSD				Analysis Date: 10/07/2019 0:00 Analysis Date: 10/07/2019 0:01 Analysis Date: 10/07/2019 0:03 Matrix: Water (Surface, Eff., Ground)							
•	771001, 119577100 771008, 119577100			5771004, 11	9577100	5, 119577	1006, 1195	771007,			
-Results by SM21 4500-	NH3 G				0."	_ /	<i>/ / / / / / / / / /</i>				
	Matrix Spik					e Duplicat	,				
<u>Parameter</u> Ammonia-N	<u>Sample</u> 0.0722J	<u>Spike</u> 1.00	<u>Result</u> 1.2	<u>Rec (%)</u> 112	<u>Spike</u> 1.00	<u>Result</u> 1.17	<u>Rec (%)</u> 110	<u>CL</u> 75-125	<u>RPD (%)</u> 2.20	<u>RPD CL</u> (< 25)	
Batch Information Analytical Batch: WDA4663 Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Analyst: EWW Analytical Date/Time: 10/7/2019 12:01:51AM				Prep Batch: WXX13060 Prep Method: Ammonia by SM21 4500F prep (W) Prep Date/Time: 10/6/2019 6:00:00PM Prep Initial Wt./Vol.: 6.00mL Prep Extract Vol: 6.00mL							

Print Date: 10/15/2019 1:14:07PM

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Method Blank

SG

Blank ID: MB for HBN 1800906 [WXX/13067] Blank Lab ID: 1538287

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195771001, 1195771002, 1195771003, 1195771004, 1195771005, 1195771006, 1195771007, 1195771008, 1195771009, 1195771010

Results by SM21 4500-N D

<u>LOQ/CL</u> <u>DL</u> <u>Units</u> 1.000.310mg/L					
Pron Batch: W/XY13067					
Prep Date/Time: 10/11/2019 11:30:00AM					
Prep Initial Wt./Vol.: 25 mL					
Prep Extract Vol: 25 mL					
	1.000.310mg/LPrep Batch:WXX13067Prep Method:METHODPrep Date/Time:10/11/201911:30:00AMPrep Initial Wt./Vol.:25 mL				

Print Date: 10/15/2019 1:14:07PM



Blank Spike Summary											
Blank Spike ID: LCS for H Blank Spike Lab ID: 1538 Date Analyzed: 10/12/20	67]	Spike Duplicate ID: LCSD for HBN 1195771 [WXX13067] Spike Duplicate Lab ID: 1538289 Matrix: Water (Surface, Eff., Ground)									
11957	71001, 11957 71008, 11957			95771004,	11957710	05, 1195771	006, 1195771	007,			
Results by SM21 4500-N I	0										
		Blank Spike (mg/l			Spike Dupli						
Parameter	Spike	Result	<u>Rec (%)</u>	Spike	Result	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL		
Total Kjeldahl Nitrogen	4	4.01	100	4	3.60	90	(75-125)	10.70	(< 25)		
Batch Information											
Analytical Batch: WDA4665				Prep Batch: WXX13067							
Analytical Method: SM21 4500-N D				Prep Method: METHOD							
Instrument: Discrete Analyzer 2				Prep Date/Time: 10/11/2019 11:30							
Analyst: DMM				Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL							
				Dup	be Init Wt./\	/ol.: 4 mg/L	Extract Vol:	25 mL			

Print Date: 10/15/2019 1:14:08PM



Matrix Spike Summary Original Sample ID: 1198801010 Analysis Date: 10/12/2019 16:47 MS Sample ID: 1538290 MS Analysis Date: 10/12/2019 16:48 MSD Sample ID: 1538291 MSD Analysis Date: 10/12/2019 16:49 Matrix: Water (Surface, Eff., Ground) 1195771001, 1195771002, 1195771003, 1195771004, 1195771005, 1195771006, 1195771007, QC for Samples: 1195771008, 1195771009, 1195771010 Results by SM21 4500-N D Matrix Spike (mg/L) Spike Duplicate (mg/L) Parameter Sample Spike Result Rec (%) <u>Spike</u> Result <u>Rec (%)</u> CL RPD (%) RPD CL Total Kjeldahl Nitrogen 1.00U 4.00 1.6 40 4.00 3.64 91 75-125 78.10 * (< 25) **Batch Information** Analytical Batch: WDA4665 Prep Batch: WXX13067 Analytical Method: SM21 4500-N D Prep Method: Distillation TKN by Phenate (W) Instrument: Discrete Analyzer 2 Prep Date/Time: 10/11/2019 11:30:00AM Analyst: DMM Prep Initial Wt./Vol.: 25.00mL Analytical Date/Time: 10/12/2019 4:48:29PM Prep Extract Vol: 25.00mL

Print Date: 10/15/2019 1:14:10PM

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Locations Nationwide

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North Carolina

Maryland New York Indiana Kentucky

West Virgina Kentu www.us.sgs.com

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	CONTACT: (\mathbf{T}	ONE NO:			Sec	tion 3			- 3		rvative					Pageof ^I
Section 7	PROJECT NAME:	PWS	JECT/ ID/ MIT#:			# C		1)	OC.COM	A SO	H Juy	1				
U)	REPORTS TO		AIL:) MKC (1/1) TE #:	NMIRES	tenta (m		Туре С = СОМР G =			Xaltu	A	4	Aithil				
	INVOICE TO:	P.O		24700-4	15	I N	GRAB MI = Multi Incre-		\sim	Q KANT	TENHMONIN	Amm	N/ AV				
	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	E R S	mental Soils	Ball	SST	FC/	3F	NH	Nitrue,				REMARKS/ LOC ID
	() AF	SUB	9/20/19	1030	WILP	6	G	1	1	1 1		l	- 1				
(DAC	MWA		1100		3	Ì			1	1						
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	DAF/	E DUTR	V	1142		6		ſ	1	1		1	1				
	Relinquishe	By: (1)	Date	Time	Received By	:	•			Section 4	DOD) Projec	t? Yes	No	Data	Delive	rable Requirements:
	1		Date 9/26/14	1600						Cooler ID:				· · ·			
	Relinquished	l By: (2)	Date	Time	Received By	1				Requested T	urnarou	Ind Tim	e and/o	or Spec	cial Instr	ructions	S:
Section 5																	
ecti	Relinquished	l By: (3)	Date	Time	Received By								-				
S					:					Temp Blank	4,5	1 207	257 121		Cha	in of C	ustody Seal: (Circle)
	Relinquished	I Bv: (4)	Date	Time	Received Fo	r Labora	tory By:			тетр валк						ют ·	
			9/26/19	16200	JONA	7 1/1	100	-			or Am				INTA		BROKEN ABSENT
		· · · · · · · · · · · · · · · · · · ·			00000	00	VI			(See attac	ned San	nple Re	ceipt Fo	orm)	(See at	tached	Sample Receipt Form)

[] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
 [] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

http://www.sgs.com/terms-and-conditions

e-Sample Receipt Form

000	e-Samj	ple Receip	t <u>Form</u>				
SGS	SGS Workorder #:	1	1957	71		9 5 7 7	II 1
Re	eview Criteria	Condition (Yes	, No, N/A	Exce	eptions N	oted below	
Chain c	of Custody / Temperature Requi	rements	Ye	Exemption per	rmitted if sar	mpler hand carries/deli	vers.
	Were Custody Seals intact? Note # &	location N/A	HD				
	COC accompanied sa	amples? Yes					
DOD: Were	samples received in COC corresponding of	coolers?					
	**Exemption permitted if	chilled & colle	ected <8 hour	rs ago, or for sam	ples where		-
Tempera	ture blank compliant* (i.e., 0-6 °C afte	er CF)? Yes	Cooler ID:	1	@	4.5 °C Therm. ID	
			Cooler ID:	2	@	6.0 °C Therm. ID	
	a temperature blank, the "cooler temperature" will TEMP" will be noted to the right. "ambient" or "ch		Cooler ID:		@	°C Therm. ID	
	noted if neither is available.		Cooler ID:		@	°C Therm. ID	_
			Cooler ID:		@	°C Therm. ID	:
*lf >6	5°C, were samples collected <8 hours	s ago? N/A	l				
	If <0°C, were sample containers ice	e free? N/A	l				
	ners received at non-compliant tempe Use form FS-0029 if more space is n						
Holding Time / I	Documentation / Sample Condition Re	equirements	Note: Refer to	o form F-083 "Sampl	le Guide" for s	pecific holding times.	
	Were samples received within holding	g time? Yes					
Do samples match CC	DC ** (i.e.,sample IDs,dates/times colle	ected)? Yes					
**Note: If times di	iffer <1hr, record details & login per C	OC.	I				
***Note: If sample information on o	containers differs from COC, SGS will default to 0	COC information					
	clear? (i.e., method is specified for ar ultiple option for analysis (Ex: BTEX, I						
				***Exemption	permitted fo	r metals (e.g,200.8/602	<u>20A).</u>
Were proper containe	ers (type/mass/volume/preservative***)used? Yes					
	Volatile / LL-Hg Req	uirements					
Were Trip Blanks	(i.e., VOAs, LL-Hg) in cooler with sar	mples? N/A					
Were all water VOA via	als free of headspace (i.e., bubbles \leq	6mm)? N/A					
Were all	I soil VOAs field extracted with MeOH	+BFB? N/A					
Note to Cli	ent: Any "No", answer above indicates no	n-compliance	with standar	d procedures and	I may impac	t data quality.	
	Additiona	al notes (if a	applicable)	:			



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> <u>Condition</u>
1195771001-A	Na2S2O3 for Chlorine Redu	ОК			
1195771001-B	No Preservative Required	ОК			
1195771001-C	Na2S2O3 for Chlorine Redu	ОК			
1195771001-D	No Preservative Required	OK			
1195771001-E	No Preservative Required	OK			
1195771001-F	H2SO4 to pH < 2	OK			
1195771002-A	Na2S2O3 for Chlorine Redu	OK			
1195771002-B	No Preservative Required	OK			
1195771002-C	H2SO4 to pH < 2	OK			
1195771003-A	Na2S2O3 for Chlorine Redu	OK			
1195771003-B	No Preservative Required	OK			
1195771003-C	Na2S2O3 for Chlorine Redu	OK			
1195771003-D	No Preservative Required	OK			
1195771003-E	No Preservative Required	OK			
1195771003-F	H2SO4 to pH < 2	OK			
1195771004-A	Na2S2O3 for Chlorine Redu	OK			
1195771004-B	No Preservative Required	OK			
1195771004-C	Na2S2O3 for Chlorine Redu	OK			
1195771004-C	No Preservative Required	OK			
1195771004-E	No Preservative Required	OK			
1195771004-E	H2SO4 to pH < 2	OK			
1195771004-P	Na2S2O3 for Chlorine Redu	OK			
1195771005-A	No Preservative Required	OK			
1195771005-C	Na2S2O3 for Chlorine Redu	OK			
1195771005-D	No Preservative Required	OK			
	No Preservative Required				
1195771005-Е 1195771005-F	H2SO4 to pH < 2	OK			
	Na2S2O3 for Chlorine Redu	OK			
1195771006-А 1195771006-В	No Preservative Required	OK			
	H2SO4 to pH < 2	OK			
1195771006-C	Na2S2O3 for Chlorine Redu	OK			
1195771007-A	No Preservative Required	OK OK			
1195771007-В	Na2S2O3 for Chlorine Redu				
1195771007-C	No Preservative Required	OK OK			
1195771007-D	No Preservative Required				
1195771007-Е 1195771007-F	H2SO4 to pH < 2	OK			
	Na2S2O3 for Chlorine Redu	OK			
1195771008-А 1195771008-В	No Preservative Required	OK OK			
	Na2S2O3 for Chlorine Redu				
1195771008-C	No Preservative Required	OK			
1195771008-D	No Preservative Required	OK			
1195771008-E 1195771008-F	H2SO4 to pH < 2	OK			
	Na2S2O3 for Chlorine Redu	OK			
1195771009-A	No Preservative Required	OK			
1195771009-В	Na2S2O3 for Chlorine Redu	OK			
1195771009-C	No Preservative Required	OK			
1195771009-D	No Preservative Required	OK			
1195771009-E	HO Preservative Required H2SO4 to $pH < 2$	OK			
1195771009-F		OK			

Container Id	<u>Preservative</u>	<u>Container</u> Condition
1195771010-A 1195771010-B 1195771010-C 1195771010-D 1195771010-E 1195771010-F	Na2S2O3 for Chlorine Redu No Preservative Required Na2S2O3 for Chlorine Redu No Preservative Required No Preservative Required H2SO4 to pH < 2	ОК ОК ОК ОК ОК

Container Id Preservative

<u>Container</u> <u>Condition</u>

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added. QN - Insufficient sample quantity provided.



Laboratory Report of Analysis

To: Stantec Consulting Services Inc. 725 East Fireweed Lane Suite 200 Anchorage, AK 99503 (907)248-8883

Report Number: **1195809**

Client Project: Wasilla WWTP

Dear John Marshall,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely, SGS North America Inc.

Justin Nelson Project Manager Justin.Nelson@sgs.com Date

Print Date: 10/14/2019 9:06:12AM

SGS North America Inc.

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Case Narrative

SGS Client: Stantec Consulting Services Inc. SGS Project: 1195809 Project Name/Site: Wasilla WWTP Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 10/14/2019 9:06:13AM

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification, and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.
Sample summaries which i All DRO/RRO analyses are	nclude a result for "Total Solids" have already been adjusted for moisture content.
All DITORTICO allalyses are	

Print Date: 10/14/2019 9:06:15AM

Note:

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Sample	Summary
--------	---------

Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
MW20	1195809001	09/27/2019	09/27/2019	Water (Surface, Eff., Ground)
MW14A	1195809002	09/27/2019	09/27/2019	Water (Surface, Eff., Ground)

<u>Method</u> SM21 4500-NH3 G SM21 9222D EPA 300.0 SM21 4500-N D

Method Description

Ammonia-N (W) SM21 4500-NH3 G Fecal Coliform (MF) Ion Chromatographic Analysis TKN by Phenate (W)

Print Date: 10/14/2019 9:06:16AM



	Detectable Results Summary			
Client Sample ID: MW20				
Lab Sample ID: 1195809001	Parameter	Result	<u>Units</u>	
Waters Department	Ammonia-N	0.0665J	mg/L	
	Nitrate-N	0.247	mg/L	
	Total Nitrate/Nitrite-N	0.247	mg/L	
Client Sample ID: MW14A				
Lab Sample ID: 1195809002	Parameter	<u>Result</u>	<u>Units</u>	
Microbiology Laboratory	Fecal Coliform	4.0	col/100mL	
Waters Department	Ammonia-N	0.0546J	mg/L	
	Nitrate-N	0.0500J	mg/L	
	Total Kjeldahl Nitrogen	0.403J	mg/L	
	Total Nitrate/Nitrite-N	0.0500J	mg/L	

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Results of MW20							
Client Sample ID: MW20 Client Project ID: Wasilla WWTP Lab Sample ID: 1195809001 Lab Project ID: 1195809		Re M So	eceived D				
Results by Microbiology Laboratory			_			Allowable	
Parameter	Result Qual	LOQ/CL	DL	<u>Units</u>	DF	Limits	Date Analyzed
Fecal Coliform	9.09 U	9.09	9.09	col/100m	L 1		09/27/19 16:06
Batch Information Analytical Batch: BTF17677 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/27/19 16:06 Container ID: 1195809001-A							

J flagging is activated

Results of MW20							
Client Sample ID: MW20 Client Project ID: Wasilla WWTP Lab Sample ID: 1195809001 Lab Project ID: 1195809		F M S	Collection Da Received Dat Matrix: Water Solids (%): Location:	e: 09/27/1	9 15:20	und)	
Results by Waters Department							
<u>Parameter</u> Nitrate-N Nitrite-N	<u>Result Qual</u> 0.247 0.100 U	<u>LOQ/CL</u> 0.200 0.200	<u>DL</u> 0.0500 0.0500	<u>Units</u> mg/L mg/L	<u>DF</u> 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/27/19 20: 09/27/19 20:
Total Nitrate/Nitrite-N	0.100 0	0.200	0.0500	mg/L	1		09/27/19 20:
Batch Information							
Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 20:12 Container ID: 1195809001-B			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	METHOD ne: 09/27/1 t./Vol.: 10 r			
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 09/29/19 16:
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:31 Container ID: 1195809001-C			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r			
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0665 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 10/09/19 15:
Batch Information Analytical Batch: WDA4664 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/09/19 15:36 Container ID: 1195809001-C			Prep Batch: N Prep Method: Prep Date/Tir Prep Initial W Prep Extract N	METHOD ne: 10/09/1 t./Vol.: 6 m			

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Results of MW14A								
Client Sample ID: MW14A Client Project ID: Wasilla WWTP Lab Sample ID: 1195809002 Lab Project ID: 1195809		Collection Date: 09/27/19 11:10 Received Date: 09/27/19 15:20 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Microbiology Laboratory								
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 4.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> DF col/100mL 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 09/27/19 16:06		
Batch Information								
Analytical Batch: BTF17677 Analytical Method: SM21 9222D Analyst: A.L Analytical Date/Time: 09/27/19 16:06 Container ID: 1195809002-A								

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Results of MW14A Client Sample ID: MW14A Client Project ID: Wasilla WWTP Lab Sample ID: 1195809002 Lab Project ID: 1195809	ť	Collection Date: 09/27/19 11:10 Received Date: 09/27/19 15:20 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department Parameter Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.0500 J 0.100 U 0.0500 J	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> Limits	Date Analyze 09/27/19 20: 09/27/19 20: 09/27/19 20:	
Batch Information Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 09/27/19 20:31 Container ID: 1195809002-B			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/27/1 t./Vol.: 10 r				
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.403 J	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	<u>Date Analyz</u> 09/29/19 16:	
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Analyst: DMM Analytical Date/Time: 09/29/19 16:32 Container ID: 1195809002-C			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	METHOD ne: 09/28/1 t./Vol.: 25 r				
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0546 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyz</u> 10/09/19 15:	
Batch Information Analytical Batch: WDA4664 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 10/09/19 15:38 Container ID: 1195809002-C			Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	METHOD ne: 10/09/1 t./Vol.: 6 m	9 15:00			

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Method Blank					
Blank ID: MB for HBN Blank Lab ID: 1534903		Matrix	k: Water (Surf	ace, Eff., Ground)	
QC for Samples: 1195809001, 119580900	2				
Results by SM21 9222	D				
Parameter	Results	LOQ/CL	DL	<u>Units</u>	
Fecal Coliform	1.00U	1.00	1.00	col/100mL	
Batch Information					
Analytical Batch: BTF Analytical Method: SM Instrument: Analyst: A.L Analytical Date/Time:					

Print Date: 10/14/2019 9:06:20AM

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Results by EPA 300.0					
Results by EFA 300.0					
Parameter Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Results</u> 0.100U 0.0560J 0.0710J	<u>LOQ/CL</u> 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	
atch Information Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 9/27/2019 3:08:44PM		Prep Me Prep Da Prep Init	tch: WXX13036 whod: METHOD te/Time: 9/27/20 ial Wt./Vol.: 10 m tract Vol: 10 mL		

Print Date: 10/14/2019 9:06:23AM



Blank Spike Summary Blank Spike ID: LCS for H Blank Spike Lab ID: 1535 Date Analyzed: 09/27/20	062 19 15:27		6]	Matrix: Water (Surface, Eff., Ground)				
QC for Samples: 11958 Results by EPA 300.0	309001, 119580	9002	_					
	E	Blank Spike	e (mg/L)					
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>				
Nitrate-N	5	4.74	95	(90-110)				
Nitrite-N	5	4.99	100	(90-110)				
Total Nitrate/Nitrite-N	10	9.73	97	(90-110)				
Batch Information								
Analytical Batch: WIC5970 Analytical Method: EPA 30				Prep Batch: WXX13036 Prep Method: METHOD				
Instrument: 930 Metrohm		(Prep Date/Time: 09/27/2019 13:00				
Analyst: DMM	•			Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL Dupe Init Wt./Vol.: Extract Vol:				



Matrix Spike Summary

Original Sample ID: 1535059 MS Sample ID: 1535064 MS MSD Sample ID: Analysis Date: 09/27/2019 16:05 Analysis Date: 09/27/2019 16:24 Analysis Date: Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195809001, 1195809002

		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u>	Sample	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	Spike	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Nitrate-N	0.100U	5.00	4.88	98				90-110		
Nitrite-N	0.100U	5.00	5.15	103				90-110		
Batch Information Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 9/27/2019 4:24:41PM				Prep Prep Prep	Prep Batch: WXX13036 Prep Method: EPA 300.0 Extraction Waters/Liquids Prep Date/Time: 9/27/2019 1:00:00PM Prep Initial Wt./Vol.: 10.00mL Prep Extract Vol: 10.00mL					

Print Date: 10/14/2019 9:06:27AM



Matrix Spike Summary

Original Sample ID: 1535060 MS Sample ID: 1535065 MS MSD Sample ID: Analysis Date: 09/27/2019 21:28 Analysis Date: 09/27/2019 22:25 Analysis Date: Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195809001, 1195809002

		Ma	trix Spike (mg/L)	Spik	e Duplicate	e (mg/L)			
Parameter	Sample	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CI
Nitrate-N	0.112J	5.00	4.96	97				90-110		
Nitrite-N	0.100U	5.00	5.01	100				90-110		
Batch Information Analytical Batch: WIC5970 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 9/27/2019 10:25:36PM				Prep Prep	Prep Batch: WXX13036 Prep Method: EPA 300.0 Extraction Waters/Liquids Prep Date/Time: 9/27/2019 1:00:00PM Prep Initial Wt./Vol.: 10.00mL Prep Extract Vol: 10.00mL					

Print Date: 10/14/2019 9:06:27AM

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Blank ID: MB for HBN 1800146 [WXX/13040] Blank Lab ID: 1535143 QC for Samples: 195809001, 1195809002	Matrix	k: Water (Surfa	ce, Eff., Ground)
Results by SM21 4500-N D]		
Parameter Results Fotal Kjeldahl Nitrogen 0.500U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L
atch Information			
Analytical Batch: WDA4654 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2 Analyst: DMM Analytical Date/Time: 9/29/2019 4:08:55PM	Prep Me Prep Da Prep Init	tch: WXX13040 ethod: METHOE te/Time: 9/28/2 tial Wt./Vol.: 25 tract Vol: 25 mL) 019 12:08:00PM mL

Print Date: 10/14/2019 9:06:28AM



Blank Spike Summary Blank Spike ID: LCS for HBN 1195809 [WXX13040] Blank Spike Lab ID: 1535144

Date Analyzed: 09/29/2019 16:10

Spike Duplicate ID: LCSD for HBN 1195809 [WXX13040] Spike Duplicate Lab ID: 1535145 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195809001, 1195809002

Results by SM21 4500-N D			<i>((</i>)						
		Blank Spike	e (mg/L)	S	Spike Dupli	cate (mg/L)			
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Kjeldahl Nitrogen	4	4.25	106	4	4.42	110	(75-125)	3.90	(< 25)
Analytical Batch: WDA4654 Analytical Method: SM21 45 Instrument: Discrete Analyz	00-N D			Pre Pre		METHOD e: 09/28/201	9 12:08 Extract Vol:	25 ml	

Print Date: 10/14/2019 9:06:30AM



Matrix Spike Summary

Original Sample ID: 1195735001 MS Sample ID: 1535146 MS MSD Sample ID: 1535147 MSD Analysis Date: 09/29/2019 16:12 Analysis Date: 09/29/2019 16:14 Analysis Date: 09/29/2019 16:15 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195809001, 1195809002

		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>arameter</u> otal Kjeldahl Nitrogen	<u>Sample</u> 0.500U	<u>Spike</u> 4.00	<u>Result</u> 4.42	<u>Rec (%)</u> 110	<u>Spike</u> 4.00	<u>Result</u> 3.92	<u>Rec (%)</u> 98	<u>CL</u> 75-125	<u>RPD (%)</u> 12.00	<u>RPD C</u> (< 25)
Batch Information Analytical Batch: WDA4654 Analytical Method: SM21 4 Instrument: Discrete Analyz Analyst: DMM Analytical Date/Time: 9/29/	500-N D zer 2			Prep Prep Prep	Method: Date/Tin Initial Wi		n TKN by Pl 019 12:08:0 00mL	`)	

Print Date: 10/14/2019 9:06:31AM

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Method Blank]			
Blank ID: MB for HBN Blank Lab ID: 153758	N 1800706 [WXX/13062] 32	Matrix	k: Water (Surfac	ce, Eff., Ground)	
QC for Samples: 1195809001, 11958090	002				
Results by SM21 450	0-NH3 G)			
<u>Parameter</u> Ammonia-N	<u>Results</u> 0.0314J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: W Analytical Method: Instrument: Discrete Analyst: EWW Analytical Date/Time	SM21 4500-NH3 G	Prep Me Prep Da Prep Init	tch: WXX13062 ethod: METHOD te/Time: 10/9/20 tial Wt./Vol.: 6 mL tract Vol: 6 mL	19 3:00:00PM	

Print Date: 10/14/2019 9:06:33AM

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Mathe d Diants		7						
Method Blank Blank ID: MB for HBN Blank Lab ID: 1537587 QC for Samples: 1195809001, 119580900		Matrix	Matrix: Water (Surface, Eff., Ground)					
Results by SM21 4500	-NH3 G	·						
<u>Parameter</u> Ammonia-N	<u>Results</u> 0.0375J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L				
Batch Information								
Analytical Batch: WD Analytical Method: SI Instrument: Discrete Analyst: EWW Analytical Date/Time:	M21 4500-NH3 G	Prep Me Prep Da Prep Ini	tch: WXX13062 ethod: METHOD tte/Time: 10/9/20 tial Wt./Vol.: 6 m tract Vol: 6 mL) 019 3:00:00PM				

Print Date: 10/14/2019 9:06:33AM



Blank Spike Summary Blank Spike ID: LCS for HBN 1195809 [WXX13062] Spike Duplicate ID: LCSD for HBN 1195809 Blank Spike Lab ID: 1537583 [WXX13062] Date Analyzed: 10/09/2019 15:30 Spike Duplicate Lab ID: 1537584 Matrix: Water (Surface, Eff., Ground) 1195809001, 1195809002 QC for Samples: Results by SM21 4500-NH3 G Blank Spike (mg/L) Spike Duplicate (mg/L) Parameter Spike Result Rec (%) <u>Spike</u> Result Rec (%) <u>CL</u> <u>RPD (%)</u> RPD CL Ammonia-N 0.984 98 1 1.08 108 1 (75-125) 9.50 (< 25) **Batch Information**

Analytical Batch: WDA4664 Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Analyst: EWW Prep Batch: WXX13062 Prep Method: METHOD Prep Date/Time: 10/09/2019 15:00 Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 10/14/2019 9:06:34AM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1195809 [WXX13062] Blank Spike Lab ID: 1537588 Date Analyzed: 10/09/2019 17:34 Spike Duplicate ID: LCSD for HBN 1195809 [WXX13062] Spike Duplicate Lab ID: 1537589 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195809001, 1195809002

Results by SM21 4500-NH3 G Blank Spike (mg/L) Spike Duplicate (mg/L) Parameter <u>Rec (%)</u> Spike Result Rec (%) <u>Spike</u> Result <u>CL</u> <u>RPD (%)</u> RPD CL Ammonia-N 1.08 108 1 1.03 103 1 (75-125) 4.30 (< 25) **Batch Information** Analytical Batch: WDA4664 Prep Batch: WXX13062 Analytical Method: SM21 4500-NH3 G Prep Method: METHOD Instrument: Discrete Analyzer 2 Prep Date/Time: 10/09/2019 15:00 Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL Analyst: EWW Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 10/14/2019 9:06:34AM



Matrix Spike Summary Original Sample ID: 1195945001 Analysis Date: 10/09/2019 15:55 MS Sample ID: 1537585 MS Analysis Date: 10/09/2019 15:56 MSD Sample ID: 1537586 MSD Analysis Date: 10/09/2019 15:58 Matrix: Water (Surface, Eff., Ground) QC for Samples: 1195809001, 1195809002 Results by SM21 4500-NH3 G Matrix Spike (mg/L) Spike Duplicate (mg/L) Parameter Sample Spike Result Rec (%) <u>Spike</u> Result <u>Rec (%)</u> <u>CL</u> <u>RPD (%)</u> RPD CL Ammonia-N 0.349 75-125 1.00 1.15 80 1.00 1.18 83 2.70 (< 25) **Batch Information** Analytical Batch: WDA4664 Prep Batch: WXX13062 Analytical Method: SM21 4500-NH3 G Prep Method: Ammonia by SM21 4500F prep (W) Instrument: Discrete Analyzer 2 Prep Date/Time: 10/9/2019 3:00:00PM Analyst: EWW Prep Initial Wt./Vol.: 6.00mL Analytical Date/Time: 10/9/2019 3:56:48PM Prep Extract Vol: 6.00mL

Print Date: 10/14/2019 9:06:36AM

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Matrix Spike Summary

Original Sample ID: 1195972001 MS Sample ID: 1537590 MS MSD Sample ID: 1537591 MSD Analysis Date: 10/09/2019 17:38 Analysis Date: 10/09/2019 17:39 Analysis Date: 10/09/2019 17:41 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195809001, 1195809002

		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> Ammonia-N	<u>Sample</u> 0.0584J	<u>Spike</u> 1.00	<u>Result</u> 1.11	<u>Rec (%)</u> 106	<u>Spike</u> 1.00	<u>Result</u> 1.18	<u>Rec (%)</u> 112	<u>CL</u> 75-125	<u>RPD (%)</u> 5.40	<u>RPD C</u> (< 25)
Batch Information Analytical Batch: WDA4664 Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Analyst: EWW Analytical Date/Time: 10/9/2019 5:39:47PM				Prep	Prep Batch: WXX13062 Prep Method: Ammonia by SM21 4500F prep (W) Prep Date/Time: 10/9/2019 3:00:00PM Prep Initial Wt./Vol.: 6.00mL Prep Extract Vol: 6.00mL					

Print Date: 10/14/2019 9:06:36AM





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West Virgina

Maryland New York Indiana Kentucky

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CLIENT: STANTO					1 - 5 must be the onset of a			
CONTACT: ALL ALLAND PHONE NO:		Section 3	-	tr	Preservative	<u>inary 313.</u>		Page of
Open of the second		# C	Nazso 1	H250				
	le stanta con	O Type N C = T COMP A G = I GRAB Multi E Incre-	A CHI	AUM				
	TIME MATRIX/ HI:MM CODE	R Soils	PEC	- H				REMARKS/ LOC ID
	2:38 Wenter	3 G 3 ↓		1				
Section 2								
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	Descined Dr			Section 4	DOD Project?	Yes No	Data Delive	erable Requirements:
	20		>	Cooler ID				
Relinquished By: (2) Date Tim Relinquished By: (3) Date Tim	ne Received By:			Requested Pr	Turnaround Time an ofice #34	nd/or Specia &(& 3	al Instruction	15:
Relinquished By: (3)	ne Received By:				кос: <u>2,62 Б</u>			Custody Seal: (Circle)
Relinquished By: (4) Date Tim 3, 27, 19	ne Received For	r Laboratory By	1		or Ambient []			BROKEN ABSENT d Sample Receipt Form)
[] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562	-2343 Fax: (907) 561-55	301			gs.com/terms-and-co		HD	
5500 Business Drive Wilmington, NC 28405 Tel: (910) 35	0-1903 Fax: (910) 350-	1557						24 of 26

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SGS Workorder #	: 1	195809	•	1 1 9 5 8 0 9			
Review Criteria	Condition (Yes	s, No, N/A	d below				
Chain of Custody / Temperature Requ			Exemption per	rmitted if sample	er hand carries/delivers.		
Were Custody Seals intact? Note # 8	& location N/A	Absent					
COC accompanied							
DOD: Were samples received in COC corresponding							
N/A **Exemption permitted							
Temperature blank compliant* (i.e., 0-6 °C af	iter CF)? Yes		1	@	2.6 °C Therm. ID: D59		
If samples received without a temperature blank, the "cooler temperature" w	vill be	Cooler ID:		@	°C Therm. ID:		
documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "		Cooler ID:		@	°C Therm. ID:		
be noted if neither is available.		Cooler ID: Cooler ID:		@	°C Therm. ID: °C Therm. ID:		
*If >6°C, were samples collected <8 hou				<u>w</u>	G menni. ID.		
If <0°C, were sample containers in	ce free? N/A						
Note: Identify containers received at non-compliant temp Use form FS-0029 if more space is							
Use form FS-0029 if more space is	needed.						
Holding Time / Documentation / Sample Condition	Requirements	Note: Refer to for	n F-083 "Sampl	e Guide" for speci	fic holding times.		
Were samples received within holdi			•	•			
		1					
Do samples match COC** (i.e.,sample IDs,dates/times co	llected)? Yes	5					
**Note: If times differ <1hr, record details & login per	COC.	T					
***Note: If sample information on containers differs from COC, SGS will default to	o COC information	n					
Were analytical requests clear? (i.e., method is specified for a		5					
with multiple option for analysis (Ex: BTEX	, Metals)	T					
			**Exemption	permitted for mo	etals (e.g,200.8/6020A).		
Were proper containers (type/mass/volume/preservative*	**)used? Yes	3					
		-					
Volatile / LL-Hg Re							
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with s							
Were all water VOA vials free of headspace (i.e., bubbles							
Were all soil VOAs field extracted with MeO					1		
Note to Client: Any "No", answer above indicates r		•	ocedures and	i may impact da	ta quality.		
Addition	nal notes (if a	applicable):					



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> Condition	Container Id	<u>Preservative</u>	<u>Container</u> Condition
1195809001-A 1195809001-B 1195809001-C 1195809002-A 1195809002-B 1195809002-C	Na2S2O3 for Chlorine Redu No Preservative Required H2SO4 to pH < 2 Na2S2O3 for Chlorine Redu No Preservative Required H2SO4 to pH < 2	ОК ОК ОК ОК ОК			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

- BU The container was received with headspace greater than 6mm.
- DM The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added. QN - Insufficient sample quantity provided.