

Laboratory Report of Analysis

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

Report Number: **1179438**

Client Project: **Wasilla WWTP Surface**

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1179438**
Project Name/Site: **Wasilla WWTP Surface**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SW-2 (1179438002) PS

5210B - BOD - Sample was less than 10X the method blank. Results may be biased high.

SW-3 (1179438003) PS

5210B - BOD - Sample was less than 10X the method blank. Results may be biased high.

SW-5 (1179438005) PS

5210B - BOD - Sample was less than 10X the method blank. Results may be biased high.

Duplicate 1 (1179438011) PS

5210B - BOD - Sample was less than 10X the method blank. Results may be biased high.

MB for HBN 1771254 [BOD/5893] (1423409) MB

5210B - BOD - The method blank depletion at 0.39 mg/L is greater than the recommended limit of 0.2mg/L. Samples >10X the MB are not significantly affected; samples <10X the MB may be biased high.

*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: 11/06/2017 12:28:20PM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification 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 (Provisionally Certified as of 10/12/2017) & Microbiology (Provisionally Certified as of 9/21/2017) & UST-005 (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)**. 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.
B	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	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.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
SW-1	1179438001	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-2	1179438002	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-3	1179438003	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-4	1179438004	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-5	1179438005	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-6	1179438006	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-7	1179438007	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-8	1179438008	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-9	1179438009	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
SW-10	1179438010	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)
Duplicate 1	1179438011	10/30/2017	10/30/2017	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
SM21 4500NO3-F	Nitrate/Nitrite Flow injection Pres.
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Qualitative
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **SW-1**
 Lab Sample ID: 1179438001
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	Positive	100mL
Total Coliform	Positive	100mL
Total Kjeldahl Nitrogen	0.510J	mg/L
Total Phosphorus	0.0534	mg/L
Total Suspended Solids	5.00	mg/L

Client Sample ID: **SW-2**
 Lab Sample ID: 1179438002
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	3.04	mg/L
E. Coli	Positive	100mL
Fecal Coliform	320	col/100mL
Total Coliform	Positive	100mL
Total Kjeldahl Nitrogen	0.652J	mg/L
Total Phosphorus	0.0569	mg/L
Total Suspended Solids	77.7	mg/L

Client Sample ID: **SW-3**
 Lab Sample ID: 1179438003
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	2.62	mg/L
E. Coli	Positive	100mL
Fecal Coliform	90	col/100mL
Total Coliform	Positive	100mL
Total Kjeldahl Nitrogen	0.547J	mg/L
Total Phosphorus	0.0518	mg/L
Total Suspended Solids	106	mg/L

Client Sample ID: **SW-4**
 Lab Sample ID: 1179438004
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	Positive	100mL
Total Coliform	Positive	100mL
Total Suspended Solids	16.2	mg/L

Client Sample ID: **SW-5**
 Lab Sample ID: 1179438005
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	2.39	mg/L
E. Coli	Positive	100mL
Fecal Coliform	164	col/100mL
Total Coliform	Positive	100mL
Total Kjeldahl Nitrogen	0.783J	mg/L
Total Nitrate/Nitrite-N	0.0362J	mg/L
Total Phosphorus	0.0838	mg/L
Total Suspended Solids	25.3	mg/L

Detectable Results Summary

Client Sample ID: **SW-6**
 Lab Sample ID: 1179438006
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	5.53	mg/L
E. Coli	Positive	100mL
Fecal Coliform	8.0	col/100mL
Total Coliform	Positive	100mL

Waters Department

Total Kjeldahl Nitrogen	0.549J	mg/L
Total Phosphorus	0.0266	mg/L
Total Suspended Solids	8.88	mg/L

Client Sample ID: **SW-7**
 Lab Sample ID: 1179438007
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	Positive	100mL
Fecal Coliform	280	col/100mL
Total Coliform	Positive	100mL

Waters Department

Total Kjeldahl Nitrogen	0.376J	mg/L
Total Phosphorus	0.00850J	mg/L
Total Suspended Solids	3.13	mg/L

Client Sample ID: **SW-8**
 Lab Sample ID: 1179438008
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	Positive	100mL
Fecal Coliform	181	col/100mL
Total Coliform	Positive	100mL

Waters Department

Total Kjeldahl Nitrogen	0.480J	mg/L
Total Phosphorus	0.0235	mg/L
Total Suspended Solids	42.2	mg/L

Client Sample ID: **SW-9**
 Lab Sample ID: 1179438009
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	Positive	100mL
Fecal Coliform	12	col/100mL
Total Coliform	Positive	100mL

Waters Department

Total Phosphorus	0.0111J	mg/L
Total Suspended Solids	4.35	mg/L

Client Sample ID: **SW-10**
 Lab Sample ID: 1179438010
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	Positive	100mL
Fecal Coliform	3.0	col/100mL
Total Coliform	Positive	100mL

Waters Department

Total Phosphorus	0.00720J	mg/L
Total Suspended Solids	30.3	mg/L

Detectable Results Summary

Client Sample ID: **Duplicate 1**

Lab Sample ID: 1179438011

Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	3.87	mg/L
E. Coli	Positive	100mL
Fecal Coliform	200	col/100mL
Total Coliform	Positive	100mL
Total Kjeldahl Nitrogen	0.702J	mg/L
Total Phosphorus	0.166J	mg/L
Total Suspended Solids	100	mg/L

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Results of SW-1

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438001
Lab Project ID: 1179438

Collection Date: 10/30/17 10:24
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438001-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438001-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438001-A



Results of SW-1

Client Sample ID: **SW-1**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179438001
 Lab Project ID: 1179438

Collection Date: 10/30/17 10:24
 Received Date: 10/30/17 16:29
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	5.00	2.00	0.620	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 10/31/17 09:30
 Container ID: 1179438001-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.510 J	1.00	0.310	mg/L	1		11/01/17 13:22

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 11/01/17 13:22
 Container ID: 1179438001-C

Prep Batch: WXX12089
 Prep Method: METHOD
 Prep Date/Time: 10/31/17 18:11
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:11

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 11/01/17 13:11
 Container ID: 1179438001-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0534	0.0200	0.00620	mg/L	1		10/31/17 13:27

Print Date: 11/06/2017 12:28:25PM

J flagging is activated

Results of SW-1

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438001
Lab Project ID: 1179438

Collection Date: 10/30/17 10:24
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:27
Container ID: 1179438001-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438002
Lab Project ID: 1179438

Collection Date: 10/30/17 10:45
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	3.04	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438002-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	320	10.0	10.0	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438002-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438002-A



Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438002
Lab Project ID: 1179438

Collection Date: 10/30/17 10:45
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	77.7	3.33	1.03	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/31/17 09:30
Container ID: 1179438002-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.652 J	1.00	0.310	mg/L	1		11/01/17 13:25

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:25	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179438002-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:13

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 13:13
Container ID: 1179438002-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0569	0.0200	0.00620	mg/L	1		10/31/17 13:27

Print Date: 11/06/2017 12:28:25PM

J flagging is activated

Results of SW-2

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438002
Lab Project ID: 1179438

Collection Date: 10/30/17 10:45
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:27
Container ID: 1179438002-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438003
Lab Project ID: 1179438

Collection Date: 10/30/17 11:05
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.62	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438003-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	90	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438003-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438003-A



Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438003
Lab Project ID: 1179438

Collection Date: 10/30/17 11:05
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	106	3.33	1.03	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/31/17 09:30
Container ID: 1179438003-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.547 J	1.00	0.310	mg/L	1		11/01/17 13:27

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:27	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179438003-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:15

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 13:15
Container ID: 1179438003-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0518	0.0200	0.00620	mg/L	1		10/31/17 13:30

Print Date: 11/06/2017 12:28:25PM

J flagging is activated

Results of SW-3

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438003
Lab Project ID: 1179438

Collection Date: 10/30/17 11:05
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:30
Container ID: 1179438003-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438004
Lab Project ID: 1179438

Collection Date: 10/30/17 12:13
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438004-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438004-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438004-A



Results of SW-4

Client Sample ID: **SW-4**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179438004
 Lab Project ID: 1179438

Collection Date: 10/30/17 12:13
 Received Date: 10/30/17 16:29
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	16.2	1.54	0.477	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 10/31/17 09:30
 Container ID: 1179438004-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		11/01/17 13:28

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 11/01/17 13:28
 Container ID: 1179438004-C

Prep Batch: WXX12089
 Prep Method: METHOD
 Prep Date/Time: 10/31/17 18:11
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:16

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 11/01/17 13:16
 Container ID: 1179438004-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0100 U	0.0200	0.00620	mg/L	1		10/31/17 13:31

Print Date: 11/06/2017 12:28:25PM

J flagging is activated

Results of SW-4

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438004
Lab Project ID: 1179438

Collection Date: 10/30/17 12:13
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:31
Container ID: 1179438004-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438005
Lab Project ID: 1179438

Collection Date: 10/30/17 11:58
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.39	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438005-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	164	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438005-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438005-A



Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438005
Lab Project ID: 1179438

Collection Date: 10/30/17 11:58
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	25.3	1.43	0.443	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/31/17 09:30
Container ID: 1179438005-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.783 J	1.00	0.310	mg/L	1		11/01/17 13:29

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:29	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179438005-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0362 J	0.100	0.0300	mg/L	2		11/01/17 13:18

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 13:18
Container ID: 1179438005-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0838	0.0200	0.00620	mg/L	1		10/31/17 13:34

Results of SW-5

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438005
Lab Project ID: 1179438

Collection Date: 10/30/17 11:58
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:34
Container ID: 1179438005-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438006
Lab Project ID: 1179438

Collection Date: 10/30/17 12:31
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	5.53	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438006-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	8.0	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438006-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438006-A



Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438006
Lab Project ID: 1179438

Collection Date: 10/30/17 12:31
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	8.88	1.25	0.388	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/31/17 09:30
Container ID: 1179438006-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.549 J	1.00	0.310	mg/L	1		11/01/17 13:33

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:33	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179438006-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:20

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 13:20
Container ID: 1179438006-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0266	0.0200	0.00620	mg/L	1		10/31/17 13:35

Print Date: 11/06/2017 12:28:25PM

J flagging is activated

Results of SW-6

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438006
Lab Project ID: 1179438

Collection Date: 10/30/17 12:31
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:35
Container ID: 1179438006-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of SW-7

Client Sample ID: **SW-7**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179438007
 Lab Project ID: 1179438

Collection Date: 10/30/17 12:44
 Received Date: 10/30/17 16:29
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
 Analytical Method: SM21 5210B
 Analyst: AKD
 Analytical Date/Time: 10/31/17 15:28
 Container ID: 1179438007-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	280	10.0	10.0	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
 Analytical Method: SM21 9222D
 Analyst: K.W
 Analytical Date/Time: 10/30/17 17:57
 Container ID: 1179438007-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 10/30/17 18:15
 Container ID: 1179438007-A



Results of **SW-7**

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438007
Lab Project ID: 1179438

Collection Date: 10/30/17 12:44
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	3.13	1.25	0.388	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/31/17 09:30
Container ID: 1179438007-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.376 J	1.00	0.310	mg/L	1		11/01/17 13:35

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:35	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179438007-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:22

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 13:22
Container ID: 1179438007-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.00850 J	0.0200	0.00620	mg/L	1		10/31/17 13:36

Print Date: 11/06/2017 12:28:25PM

J flagging is activated

Results of SW-7

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438007
Lab Project ID: 1179438

Collection Date: 10/30/17 12:44
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:36
Container ID: 1179438007-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-8**

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438008
Lab Project ID: 1179438

Collection Date: 10/30/17 13:55
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438008-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	181	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438008-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438008-A

Results of SW-8

Client Sample ID: **SW-8**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179438008
 Lab Project ID: 1179438

Collection Date: 10/30/17 13:55
 Received Date: 10/30/17 16:29
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	42.2		2.00	0.620	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 10/31/17 09:30
 Container ID: 1179438008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.480	J	1.00	0.310	mg/L	1		11/01/17 13:36

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 11/01/17 13:36
 Container ID: 1179438008-C

Prep Batch: WXX12089
 Prep Method: METHOD
 Prep Date/Time: 10/31/17 18:11
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.0500	U	0.100	0.0300	mg/L	2		11/01/17 13:23

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 11/01/17 13:23
 Container ID: 1179438008-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0235		0.0200	0.00620	mg/L	1		10/31/17 13:37

Results of SW-8

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438008
Lab Project ID: 1179438

Collection Date: 10/30/17 13:55
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:37
Container ID: 1179438008-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of SW-9

Client Sample ID: **SW-9**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179438009
 Lab Project ID: 1179438

Collection Date: 10/30/17 14:05
 Received Date: 10/30/17 16:29
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
 Analytical Method: SM21 5210B
 Analyst: AKD
 Analytical Date/Time: 10/31/17 15:28
 Container ID: 1179438009-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	12	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
 Analytical Method: SM21 9222D
 Analyst: K.W
 Analytical Date/Time: 10/30/17 17:57
 Container ID: 1179438009-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 10/30/17 18:15
 Container ID: 1179438009-A

Results of SW-9

Client Sample ID: **SW-9**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179438009
 Lab Project ID: 1179438

Collection Date: 10/30/17 14:05
 Received Date: 10/30/17 16:29
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	4.35	1.18	0.365	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 10/31/17 09:30
 Container ID: 1179438009-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		11/01/17 13:37

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:37	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179438009-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:34

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 11/01/17 13:34
 Container ID: 1179438009-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0111 J	0.0200	0.00620	mg/L	1		10/31/17 13:37

Results of SW-9

Client Sample ID: **SW-9**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438009
Lab Project ID: 1179438

Collection Date: 10/30/17 14:05
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:37
Container ID: 1179438009-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438010
Lab Project ID: 1179438

Collection Date: 10/30/17 14:20
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438010-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	3.0	1.00	1.00	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438010-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438010-A



Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438010
Lab Project ID: 1179438

Collection Date: 10/30/17 14:20
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	30.3	1.25	0.388	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 10/31/17 09:30
Container ID: 1179438010-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		11/01/17 13:39

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:39	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179438010-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:36

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 13:36
Container ID: 1179438010-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.00720 J	0.0200	0.00620	mg/L	1		10/31/17 13:38

Results of SW-10

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438010
Lab Project ID: 1179438

Collection Date: 10/30/17 14:20
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:38
Container ID: 1179438010-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of Duplicate 1

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438011
Lab Project ID: 1179438

Collection Date: 10/30/17 10:45
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	3.87	2.00	2.00	mg/L	1		10/31/17 15:28

Batch Information

Analytical Batch: BOD5893
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 10/31/17 15:28
Container ID: 1179438011-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	200	10.0	10.0	col/100mL	1		10/30/17 17:57

Batch Information

Analytical Batch: BTF16087
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/30/17 17:57
Container ID: 1179438011-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	Positive	1	1	100mL	1		10/30/17 18:15
Total Coliform	Positive	1	1	100mL	1		10/30/17 18:15

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/30/17 18:15
Container ID: 1179438011-A



Results of Duplicate 1

Client Sample ID: **Duplicate 1**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179438011
 Lab Project ID: 1179438

Collection Date: 10/30/17 10:45
 Received Date: 10/30/17 16:29
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	100	3.33	1.03	mg/L	1		10/31/17 09:30

Batch Information

Analytical Batch: STS5713
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 10/31/17 09:30
 Container ID: 1179438011-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.702 J	1.00	0.310	mg/L	1		11/01/17 13:40

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 11/01/17 13:40
 Container ID: 1179438011-C

Prep Batch: WXX12089
 Prep Method: METHOD
 Prep Date/Time: 10/31/17 18:11
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 13:37

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 11/01/17 13:37
 Container ID: 1179438011-C

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.166 J	0.200	0.0620	mg/L	1		10/31/17 13:41

Print Date: 11/06/2017 12:28:25PM

J flagging is activated

Results of Duplicate 1

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179438011
Lab Project ID: 1179438

Collection Date: 10/30/17 10:45
Received Date: 10/30/17 16:29
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 10/31/17 13:41
Container ID: 1179438011-C

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/17 11:30
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1771254 [BOD/5893]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423409

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 5210B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Biochemical Oxygen Demand	2.00U	2.00	2.00	mg/L

Batch Information

Analytical Batch: BOD5893

Analytical Method: SM21 5210B

Instrument:

Analyst: AKD

Analytical Date/Time: 10/31/2017 3:28:00PM

Print Date: 11/06/2017 12:28:29PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179438 [BOD5893]

Blank Spike Lab ID: 1423410

Date Analyzed: 10/31/2017 15:28

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 5210B

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Biochemical Oxygen Demand	198	219	111	(84.6-115.4

Batch Information

Analytical Batch: **BOD5893**

Analytical Method: **SM21 5210B**

Instrument:

Analyst: **AKD**

Print Date: 11/06/2017 12:28:30PM

Method Blank

Blank ID: MB for HBN 1771139 [BTF/16086]
Blank Lab ID: 1423028

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 9223B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
E. Coli	Negative	1	1	100mL
Total Coliform	Negative	1	1	100mL

Batch Information

Analytical Batch: BTF16086
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 10/30/2017 2:59:00PM

Print Date: 11/06/2017 12:28:31PM

Method Blank

Blank ID: MB for HBN 1771140 [BTF/16087]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423054

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 9222D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Fecal Coliform	1.00U	1.00	1.00	col/100mL

Batch Information

Analytical Batch: BTF16087

Analytical Method: SM21 9222D

Instrument:

Analyst: K.W

Analytical Date/Time: 10/30/2017 5:57:00PM

Print Date: 11/06/2017 12:28:33PM

Method Blank

Blank ID: MB for HBN 1771214 [STS/5713]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423206

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 2540D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Suspended Solids	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: STS5713

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Analytical Date/Time: 10/31/2017 9:30:50AM

Print Date: 11/06/2017 12:28:34PM

Duplicate Sample Summary

Original Sample ID: 1179411002

Duplicate Sample ID: 1423209

QC for Samples:

Analysis Date: 10/31/2017 09:30

Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540D

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Suspended Solids	31.3	30.7	mg/L	2.20	(< 5)

Batch Information

Analytical Batch: STS5713

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 11/06/2017 12:28:35PM

Duplicate Sample Summary

Original Sample ID: 1179426001

Duplicate Sample ID: 1423210

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Analysis Date: 10/31/2017 09:30

Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540D

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Suspended Solids	ND	1.71J	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS5713

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 11/06/2017 12:28:35PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179438 [STS5713]
 Blank Spike Lab ID: 1423207
 Date Analyzed: 10/31/2017 09:30

Spike Duplicate ID: LCSD for HBN 1179438 [STS5713]
 Spike Duplicate Lab ID: 1423208
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 2540D

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Suspended Solids	50	49.7	99	50	50.5	101	(75-125)	1.60	(< 5)

Batch Information

Analytical Batch: **STS5713**
 Analytical Method: **SM21 2540D**
 Instrument:
 Analyst: **EWV**

Print Date: 11/06/2017 12:28:36PM

Method Blank

Blank ID: MB for HBN 1771359 (WFI/2612)
Blank Lab ID: 1423748

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 11/1/2017 1:06:20PM

Print Date: 11/06/2017 12:28:37PM

Method Blank

Blank ID: MB for HBN 1771359 (WFI/2612)
Blank Lab ID: 1423750

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 11/1/2017 1:53:35PM

Print Date: 11/06/2017 12:28:37PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179438 [WFI2612]

Blank Spike Lab ID: 1423736

Date Analyzed: 11/01/2017 13:04

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500NO3-F

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	2.5	2.66	106	(70-130)
Nitrite-N	2.5	2.41	96	(90-110)
Total Nitrate/Nitrite-N	5	5.07	101	(90-110)

Batch Information

Analytical Batch: **WFI2612**

Analytical Method: **SM21 4500NO3-F**

Instrument: **Astoria segmented flow**

Analyst: **AYC**

Print Date: 11/06/2017 12:28:38PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179438 [WFI2612]

Blank Spike Lab ID: 1423749

Date Analyzed: 11/01/2017 13:51

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500NO3-F

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	2.5	2.71	108	(70-130)
Nitrite-N	2.5	2.47	99	(90-110)
Total Nitrate/Nitrite-N	5	5.17	103	(90-110)

Batch Information

Analytical Batch: **WFI2612**

Analytical Method: **SM21 4500NO3-F**

Instrument: **Astoria segmented flow**

Analyst: **AYC**

Print Date: 11/06/2017 12:28:38PM

Matrix Spike Summary

Original Sample ID: 1179438008
 MS Sample ID: 1423732 MS
 MSD Sample ID: 1423733 MSD

Analysis Date: 11/01/2017 13:23
 Analysis Date: 11/01/2017 13:25
 Analysis Date: 11/01/2017 13:27
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	0.0500U	5.00	5.26	105	5.00	5.21	104	90-110	0.94	(< 25)

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 11/1/2017 1:25:35PM

Matrix Spike Summary

Original Sample ID: 1179476026
 MS Sample ID: 1423734 MS
 MSD Sample ID: 1423735 MSD

Analysis Date: 11/01/2017 14:02
 Analysis Date: 11/01/2017 14:04
 Analysis Date: 11/01/2017 14:05
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438009, 1179438010, 1179438011

Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	0.0500U	5.00	5.38	108	5.00	5.26	105	90-110	2.20	(< 25)

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 11/1/2017 2:04:05PM

Print Date: 11/06/2017 12:28:39PM

Method Blank

Blank ID: MB for HBN 1771244 [WXX/12085]
Blank Lab ID: 1423365

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500P-B,E

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Phosphorus	0.0133J	0.0200	0.00620	mg/L

Batch Information

Analytical Batch: WDA4111
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 10/31/2017 1:19:09PM

Prep Batch: WXX12085
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/31/2017 11:30:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/06/2017 12:28:39PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179438 [WXX12085]
 Blank Spike Lab ID: 1423366
 Date Analyzed: 10/31/2017 13:20

Spike Duplicate ID: LCSD for HBN 1179438 [WXX12085]
 Spike Duplicate Lab ID: 1423367
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500P-B,E

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.2	0.207	104	0.2	0.198	99	(85-115)	4.30	(< 25)

Batch Information

Analytical Batch: WDA4111
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM

Prep Batch: WXX12085
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 10/31/2017 11:30
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Matrix Spike Summary

Original Sample ID: 1179438004
 MS Sample ID: 1423368 MS
 MSD Sample ID: 1423369 MSD

Analysis Date: 10/31/2017 13:31
 Analysis Date: 10/31/2017 13:32
 Analysis Date: 10/31/2017 13:33
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500P-B,E

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.0100U	0.200	.205	103	0.200	0.219	109	75-125	6.40	(< 25)

Batch Information

Analytical Batch: WDA4111
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 10/31/2017 1:32:55PM

Prep Batch: WXX12085
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 10/31/2017 11:30:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Method Blank

Blank ID: MB for HBN 1771351 [WXX/12089]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423690

QC for Samples:

1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500-N D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Kjeldahl Nitrogen	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: WDA4114
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 11/1/2017 1:18:05PM

Prep Batch: WXX12089
Prep Method: METHOD
Prep Date/Time: 10/31/2017 6:11:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/06/2017 12:28:42PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179438 [WXX12089]
 Blank Spike Lab ID: 1423691
 Date Analyzed: 11/01/2017 13:19

Spike Duplicate ID: LCSD for HBN 1179438 [WXX12089]
 Spike Duplicate Lab ID: 1423692
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007, 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500-N D

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Kjeldahl Nitrogen	4	3.75	94	4	3.80	95	(75-125)	1.30	(< 25)

Batch Information

Analytical Batch: **WDA4114**
 Analytical Method: **SM21 4500-N D**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12089**
 Prep Method: **METHOD**
 Prep Date/Time: **10/31/2017 18:11**
 Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Print Date: 11/06/2017 12:28:43PM

Matrix Spike Summary

Original Sample ID: 1179438001
 MS Sample ID: 1423063 MS
 MSD Sample ID: 1423064 MSD

Analysis Date: 11/01/2017 13:22
 Analysis Date: 11/01/2017 13:23
 Analysis Date: 11/01/2017 13:24
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179438001, 1179438002, 1179438003, 1179438004, 1179438005, 1179438006, 1179438007,
 1179438008, 1179438009, 1179438010, 1179438011

Results by SM21 4500-N D

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Kjeldahl Nitrogen	0.510J	4.00	4.17	92	4.00	4.35	96	75-125	4.10	(< 25)

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 11/1/2017 1:23:21PM

Prep Batch: WXX12089
 Prep Method: Distillation TKN by Phenate (W)
 Prep Date/Time: 10/31/2017 6:11:00PM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL



SGS North America Inc.
CHAIN OF CUSTODY RECO

1179438



Locations Nationwide
Alaska
Maryland
New Jersey
New York
North Carolina
Indiana
West Virginia
Kentucky
www.us.sgs.com

CLIENT: Stantec
CONTACT: John Marshall
PHONE NO: 910-266-1108
PROJECT PWSID/ PERMIT#:
NAME: W. S. Sills, W. W. TP Service
REPORTS TO:
E-MAIL: John.Marshall@Stantec.com
INVOICE TO:
QUOTE #:
P.O. #:

Section 1

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Page 1 of 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	Section 3		Section 4		REMARKS/LOC ID
					Type C = COMP GLE = GRAB MULTI = Multi- Incremental Soils	#	Section 4	DOD Project? Yes No	
1	A-E Sw-1	10/30/17	1024	W		5			
2	A-E Sw-2	10/30/17	1045	W		5			
3	A-E Sw-3	10/30/17	1105	W		5			
4	A-E Sw-4	10/30/17	1213	W		5			
5	A-E Sw-5	10/30/17	1158	W		5			
6	A-E Sw-6	10/30/17	1231	W		5			
7	A-E Sw-7	10/30/17	1244	W		5			
8	A-E Sw-8	10/30/17	1355	W		5			
9	A-E Sw-9	10/30/17	1405	W		5			
10	A-E Sw-10	10/30/17	1420	W		5			

Section 2

Section 5

Relinquished By: (1) [Signature]
Relinquished By: (2) [Signature]
Relinquished By: (3)
Relinquished By: (4) [Signature]

Received By:
 Date: 10/30/17 Time: 1629
 Date: Time
 Date: Time
 Date: Time

Temp Blank °C: ① 2.1 D20
 ② 1.4 or Ambient []
 (See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)
 INTACT **BROKEN** **ABSENT**
 (See attached Sample Receipt Form)

Data Deliverable Requirements:
Requested Turnaround Time and/or Special Instructions:
Cooler ID:
Temp Blank °C:



SGS North America Inc.
CHAIN OF CUSTODY RECORD

1179438



Regions Nationwide
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CLIENT: See sheet 1

INSTRUCTIONS: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Page 2 of 2

Section 1

CONTACT: PHONE NO: PROJECT/ PWSID/ PERMIT#: E-MAIL: QUOTE #: P.O. #:

REPORTS TO: INVOICE TO:

RESERVED for lab use

SAMPLE IDENTIFICATION DATE TIME MATRIX/CODE

11A-E Duplicate 1 10/30/17 1045 W

Section 2

#	CONTAINER	Type C = COMP GRAB Multi-Incremental Soils	Preservative				REMARKS/ LOC ID
			1	2	3	4	
1	1	BOB	1	1	1	1	
2	1	TSS	1	1	1	1	
3	1	TKN	1	1	1	1	
4	1						
5	1						
6	1						
7	1						
8	1						
9	1						
10	1						
11	1						
12	1						
13	1						
14	1						
15	1						
16	1						
17	1						
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35	1						
36	1						
37	1						
38	1						
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41	1						
42	1						
43	1						
44	1						
45	1						
46	1						
47	1						
48	1						
49	1						
50	1						

Section 3

Section 4

Section 5

Relinquished By: (1) [Signature]

Relinquished By: (2) [Signature]

Relinquished By: (3)

Relinquished By: (4) [Signature]

Date 10/30/17 1029

Received By: [Signature]

Requested Turnaround Time and/or Special Instructions: 21.4 Days of Ambient []

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

49 of 29



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1179438001-A	Na2S2O3 for Chlorine Redu	OK	1179438009-C	H2SO4 to pH < 2	OK
1179438001-B	Na2S2O3 for Chlorine Redu	OK	1179438009-D	No Preservative Required	OK
1179438001-C	H2SO4 to pH < 2	OK	1179438009-E	No Preservative Required	OK
1179438001-D	No Preservative Required	OK	1179438010-A	Na2S2O3 for Chlorine Redu	OK
1179438001-E	No Preservative Required	OK	1179438010-B	Na2S2O3 for Chlorine Redu	OK
1179438002-A	Na2S2O3 for Chlorine Redu	OK	1179438010-C	H2SO4 to pH < 2	OK
1179438002-B	Na2S2O3 for Chlorine Redu	OK	1179438010-D	No Preservative Required	OK
1179438002-C	H2SO4 to pH < 2	OK	1179438010-E	No Preservative Required	OK
1179438002-D	No Preservative Required	OK	1179438011-A	Na2S2O3 for Chlorine Redu	OK
1179438002-E	No Preservative Required	OK	1179438011-B	Na2S2O3 for Chlorine Redu	OK
1179438003-A	Na2S2O3 for Chlorine Redu	OK	1179438011-C	H2SO4 to pH < 2	OK
1179438003-B	Na2S2O3 for Chlorine Redu	OK	1179438011-D	No Preservative Required	OK
1179438003-C	H2SO4 to pH < 2	OK	1179438011-E	No Preservative Required	OK
1179438003-D	No Preservative Required	OK			
1179438003-E	No Preservative Required	OK			
1179438004-A	Na2S2O3 for Chlorine Redu	OK			
1179438004-B	Na2S2O3 for Chlorine Redu	OK			
1179438004-C	H2SO4 to pH < 2	OK			
1179438004-D	No Preservative Required	OK			
1179438004-E	No Preservative Required	OK			
1179438005-A	Na2S2O3 for Chlorine Redu	OK			
1179438005-B	Na2S2O3 for Chlorine Redu	OK			
1179438005-C	H2SO4 to pH < 2	OK			
1179438005-D	No Preservative Required	OK			
1179438005-E	No Preservative Required	OK			
1179438006-A	Na2S2O3 for Chlorine Redu	OK			
1179438006-B	Na2S2O3 for Chlorine Redu	OK			
1179438006-C	H2SO4 to pH < 2	OK			
1179438006-D	No Preservative Required	OK			
1179438006-E	No Preservative Required	OK			
1179438007-A	Na2S2O3 for Chlorine Redu	OK			
1179438007-B	Na2S2O3 for Chlorine Redu	OK			
1179438007-C	H2SO4 to pH < 2	OK			
1179438007-D	No Preservative Required	OK			
1179438007-E	No Preservative Required	OK			
1179438008-A	Na2S2O3 for Chlorine Redu	OK			
1179438008-B	Na2S2O3 for Chlorine Redu	OK			
1179438008-C	H2SO4 to pH < 2	OK			
1179438008-D	No Preservative Required	OK			
1179438008-E	No Preservative Required	OK			
1179438009-A	Na2S2O3 for Chlorine Redu	OK			
1179438009-B	Na2S2O3 for Chlorine Redu	OK			

Container Id

Preservative

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 that 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.

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.

Laboratory Report of Analysis

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

Report Number: **1179466**

Client Project: **Wasilla WWTP Surface**

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**

SGS Project: **1179466**

Project Name/Site: **Wasilla WWTP Surface**

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: 11/06/2017 1:37:33PM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. 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 <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification 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 (Provisionally Certified as of 10/12/2017) & Microbiology (Provisionally Certified as of 9/21/2017) & UST-005 (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)**. 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.
B	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	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.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
SW-11	1179466001	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)
SW-12	1179466002	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)
SW-13	1179466003	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)
SW-14	1179466004	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)
SW-15	1179466005	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)
SW-16	1179466006	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)
SW-17	1179466007	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)
SW-18	1179466008	10/31/2017	10/31/2017	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
SM21 4500NO3-F	Nitrate/Nitrite Flow injection Pres.
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

Print Date: 11/06/2017 1:37:35PM

Detectable Results Summary

Client Sample ID: **SW-11**
 Lab Sample ID: 1179466001
Microbiology Laboratory
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Coliform	308	MPN/100mL
Total Phosphorus	0.0534	mg/L
Total Suspended Solids	25.9	mg/L

Client Sample ID: **SW-12**
 Lab Sample ID: 1179466002
Microbiology Laboratory
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	32	MPN/100mL
Fecal Coliform	23	col/100mL
Total Coliform	579	MPN/100mL
Total Phosphorus	0.0281	mg/L
Total Suspended Solids	49.2	mg/L

Client Sample ID: **SW-13**
 Lab Sample ID: 1179466003
Microbiology Laboratory
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	37	MPN/100mL
Fecal Coliform	13	col/100mL
Total Coliform	1414	MPN/100mL
Total Kjeldahl Nitrogen	0.330J	mg/L
Total Phosphorus	0.0115J	mg/L
Total Suspended Solids	5.25	mg/L

Client Sample ID: **SW-14**
 Lab Sample ID: 1179466004
Microbiology Laboratory
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	14	MPN/100mL
Fecal Coliform	4.0	col/100mL
Total Coliform	1414	MPN/100mL
Total Nitrate/Nitrite-N	0.338	mg/L
Total Phosphorus	0.0152J	mg/L
Total Suspended Solids	15.5	mg/L

Client Sample ID: **SW-15**
 Lab Sample ID: 1179466005
Microbiology Laboratory
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	115	MPN/100mL
Fecal Coliform	40	col/100mL
Total Coliform	980	MPN/100mL
Total Phosphorus	0.0140J	mg/L
Total Suspended Solids	1.44	mg/L

Client Sample ID: **SW-16**
 Lab Sample ID: 1179466006
Microbiology Laboratory
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	3.57	mg/L
E. Coli	6	MPN/100mL
Fecal Coliform	8.0	col/100mL
Total Coliform	1046	MPN/100mL
Total Kjeldahl Nitrogen	0.461J	mg/L
Total Phosphorus	0.0651	mg/L
Total Suspended Solids	154	mg/L

Detectable Results Summary

Client Sample ID: **SW-17**
 Lab Sample ID: 1179466007
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	201	MPN/100mL
Fecal Coliform	79	col/100mL
Total Coliform	2420	MPN/100mL
Total Kjeldahl Nitrogen	0.504J	mg/L
Total Nitrate/Nitrite-N	1.95	mg/L
Total Phosphorus	0.123	mg/L
Total Suspended Solids	0.400J	mg/L

Waters Department

Client Sample ID: **SW-18**
 Lab Sample ID: 1179466008
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	82	MPN/100mL
Fecal Coliform	23	col/100mL
Total Coliform	1300	MPN/100mL
Total Kjeldahl Nitrogen	0.598J	mg/L
Total Nitrate/Nitrite-N	3.79	mg/L
Total Phosphorus	0.657	mg/L
Total Suspended Solids	2.50	mg/L

Waters Department



Results of **SW-11**

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466001
Lab Project ID: 1179466

Collection Date: 10/31/17 10:17
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
Analytical Method: SM21 5210B
Analyst: S.D
Analytical Date/Time: 11/01/17 15:56
Container ID: 1179466001-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/31/17 17:25
Container ID: 1179466001-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	1 U	1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	308	1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/31/17 18:02
Container ID: 1179466001-C

Results of SW-11

Client Sample ID: **SW-11**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179466001
 Lab Project ID: 1179466

Collection Date: 10/31/17 10:17
 Received Date: 10/31/17 15:56
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	25.9	1.25	0.388	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 11/01/17 09:43
 Container ID: 1179466001-B

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		11/01/17 13:41

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 11/01/17 13:41
 Container ID: 1179466001-E

Prep Batch: WXX12089
 Prep Method: METHOD
 Prep Date/Time: 10/31/17 18:11
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 14:12

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 11/01/17 14:12
 Container ID: 1179466001-E

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0534	0.0200	0.00620	mg/L	1		11/02/17 11:47

Results of SW-11

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466001
Lab Project ID: 1179466

Collection Date: 10/31/17 10:17
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 11:47
Container ID: 1179466001-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of SW-12

Client Sample ID: **SW-12**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179466002
 Lab Project ID: 1179466

Collection Date: 10/31/17 10:36
 Received Date: 10/31/17 15:56
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
 Analytical Method: SM21 5210B
 Analyst: S.D
 Analytical Date/Time: 11/01/17 15:56
 Container ID: 1179466002-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	23	1.00	1.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
 Analytical Method: SM21 9222D
 Analyst: K.W
 Analytical Date/Time: 10/31/17 17:25
 Container ID: 1179466002-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	32	1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	579	1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 10/31/17 18:02
 Container ID: 1179466002-C



Results of **SW-12**

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466002
Lab Project ID: 1179466

Collection Date: 10/31/17 10:36
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	49.2	2.00	0.620	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/01/17 09:43
Container ID: 1179466002-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		11/01/17 13:42

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:42	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179466002-E	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 14:14

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 14:14
Container ID: 1179466002-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0281	0.0200	0.00620	mg/L	1		11/02/17 11:48

Results of SW-12

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466002
Lab Project ID: 1179466

Collection Date: 10/31/17 10:36
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 11:48
Container ID: 1179466002-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466003
Lab Project ID: 1179466

Collection Date: 10/31/17 10:54
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
Analytical Method: SM21 5210B
Analyst: S.D
Analytical Date/Time: 11/01/17 15:56
Container ID: 1179466003-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	13	1.00	1.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/31/17 17:25
Container ID: 1179466003-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	37	1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	1414	1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/31/17 18:02
Container ID: 1179466003-C



Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466003
Lab Project ID: 1179466

Collection Date: 10/31/17 10:54
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	5.25	1.25	0.388	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/01/17 09:43
Container ID: 1179466003-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.330 J	1.00	0.310	mg/L	1		11/01/17 13:44

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:44	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179466003-E	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 14:16

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 14:16
Container ID: 1179466003-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0115 J	0.0200	0.00620	mg/L	1		11/02/17 11:49

Print Date: 11/06/2017 1:37:38PM

J flagging is activated

Results of SW-13

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466003
Lab Project ID: 1179466

Collection Date: 10/31/17 10:54
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 11:49
Container ID: 1179466003-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466004
Lab Project ID: 1179466

Collection Date: 10/31/17 12:48
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
Analytical Method: SM21 5210B
Analyst: S.D
Analytical Date/Time: 11/01/17 15:56
Container ID: 1179466004-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	4.0	1.00	1.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/31/17 17:25
Container ID: 1179466004-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	14	1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	1414	1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/31/17 18:02
Container ID: 1179466004-C



Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466004
Lab Project ID: 1179466

Collection Date: 10/31/17 12:48
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	15.5	1.25	0.388	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/01/17 09:43
Container ID: 1179466004-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		11/01/17 13:45

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:45	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179466004-E	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.338	0.100	0.0300	mg/L	2		11/01/17 14:18

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 14:18
Container ID: 1179466004-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0152 J	0.0200	0.00620	mg/L	1		11/02/17 11:49

Print Date: 11/06/2017 1:37:38PM

J flagging is activated

Results of SW-14

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466004
Lab Project ID: 1179466

Collection Date: 10/31/17 12:48
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 11:49
Container ID: 1179466004-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466005
Lab Project ID: 1179466

Collection Date: 10/31/17 12:24
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
Analytical Method: SM21 5210B
Analyst: S.D
Analytical Date/Time: 11/01/17 15:56
Container ID: 1179466005-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	40	2.00	2.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/31/17 17:25
Container ID: 1179466005-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	115	1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	980	1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/31/17 18:02
Container ID: 1179466005-C



Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466005
Lab Project ID: 1179466

Collection Date: 10/31/17 12:24
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	1.44	1.03	0.320	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/01/17 09:43
Container ID: 1179466005-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		11/01/17 13:49

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:49	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179466005-E	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 14:19

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 14:19
Container ID: 1179466005-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0140 J	0.0200	0.00620	mg/L	1		11/02/17 11:50

Print Date: 11/06/2017 1:37:38PM

J flagging is activated

Results of SW-15

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466005
Lab Project ID: 1179466

Collection Date: 10/31/17 12:24
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 11:50
Container ID: 1179466005-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of SW-16

Client Sample ID: **SW-16**
 Client Project ID: **Wasilla WWTP Surface**
 Lab Sample ID: 1179466006
 Lab Project ID: 1179466

Collection Date: 10/31/17 12:10
 Received Date: 10/31/17 15:56
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	3.57		2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
 Analytical Method: SM21 5210B
 Analyst: S.D
 Analytical Date/Time: 11/01/17 15:56
 Container ID: 1179466006-A

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	8.0		1.00	1.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
 Analytical Method: SM21 9222D
 Analyst: K.W
 Analytical Date/Time: 10/31/17 17:25
 Container ID: 1179466006-D

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u>
E. Coli	6		1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	1046		1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 10/31/17 18:02
 Container ID: 1179466006-C



Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466006
Lab Project ID: 1179466

Collection Date: 10/31/17 12:10
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	154	2.50	0.775	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/01/17 09:43
Container ID: 1179466006-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.461 J	1.00	0.310	mg/L	1		11/01/17 13:50

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:50	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179466006-E	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.0500 U	0.100	0.0300	mg/L	2		11/01/17 14:21

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 14:21
Container ID: 1179466006-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.0651	0.0200	0.00620	mg/L	1		11/02/17 11:51

Results of SW-16

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466006
Lab Project ID: 1179466

Collection Date: 10/31/17 12:10
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 11:51
Container ID: 1179466006-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466007
Lab Project ID: 1179466

Collection Date: 10/31/17 13:35
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
Analytical Method: SM21 5210B
Analyst: S.D
Analytical Date/Time: 11/01/17 15:56
Container ID: 1179466007-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	79	1.00	1.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/31/17 17:25
Container ID: 1179466007-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	201	1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	2420	1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/31/17 18:02
Container ID: 1179466007-C



Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466007
Lab Project ID: 1179466

Collection Date: 10/31/17 13:35
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	0.400 J	1.00	0.310	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/01/17 09:43
Container ID: 1179466007-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.504 J	1.00	0.310	mg/L	1		11/01/17 13:51

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:51	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179466007-E	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	1.95	0.100	0.0300	mg/L	2		11/01/17 14:23

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 14:23
Container ID: 1179466007-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.123	0.0200	0.00620	mg/L	1		11/02/17 11:52

Results of SW-17

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466007
Lab Project ID: 1179466

Collection Date: 10/31/17 13:35
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 11:52
Container ID: 1179466007-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466008
Lab Project ID: 1179466

Collection Date: 10/31/17 14:10
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00 U	2.00	2.00	mg/L	1		11/01/17 15:56

Batch Information

Analytical Batch: BOD5894
Analytical Method: SM21 5210B
Analyst: S.D
Analytical Date/Time: 11/01/17 15:56
Container ID: 1179466008-A

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	23	1.00	1.00	col/100mL	1		10/31/17 17:25

Batch Information

Analytical Batch: BTF16092
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 10/31/17 17:25
Container ID: 1179466008-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
E. Coli	82	1	1	MPN/100n	1		10/31/17 18:02
Total Coliform	1300	1	1	MPN/100n	1		10/31/17 18:02

Batch Information

Analytical Batch: BTF16091
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 10/31/17 18:02
Container ID: 1179466008-C



Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466008
Lab Project ID: 1179466

Collection Date: 10/31/17 14:10
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	2.50	1.00	0.310	mg/L	1		11/01/17 09:43

Batch Information

Analytical Batch: STS5714
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/01/17 09:43
Container ID: 1179466008-B

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.598 J	1.00	0.310	mg/L	1		11/01/17 13:53

Batch Information

Analytical Batch: WDA4114	Prep Batch: WXX12089
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 10/31/17 18:11
Analytical Date/Time: 11/01/17 13:53	Prep Initial Wt./Vol.: 25 mL
Container ID: 1179466008-E	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	3.79	0.100	0.0300	mg/L	2		11/01/17 14:25

Batch Information

Analytical Batch: WFI2612
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 11/01/17 14:25
Container ID: 1179466008-E

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.657	0.200	0.0620	mg/L	10		11/02/17 12:13

Results of SW-18

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1179466008
Lab Project ID: 1179466

Collection Date: 10/31/17 14:10
Received Date: 10/31/17 15:56
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 11/02/17 12:13
Container ID: 1179466008-E

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/17 10:22
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1771358 [BOD/5894]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423730

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 5210B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Biochemical Oxygen Demand	2.00U	2.00	2.00	mg/L

Batch Information

Analytical Batch: BOD5894

Analytical Method: SM21 5210B

Instrument:

Analyst: S.D

Analytical Date/Time: 11/1/2017 3:56:00PM

Print Date: 11/06/2017 1:37:41PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179466 [BOD5894]

Blank Spike Lab ID: 1423731

Date Analyzed: 11/01/2017 15:56

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 5210B

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Biochemical Oxygen Demand	198	204	103	(84.6-115.4

Batch Information

Analytical Batch: **BOD5894**

Analytical Method: **SM21 5210B**

Instrument:

Analyst: **S.D**

Print Date: 11/06/2017 1:37:42PM

Method Blank

Blank ID: MB for HBN 1771257 [BTF/16091]
Blank Lab ID: 1423421

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 9223B

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

Batch Information

Analytical Batch: BTF16091
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 10/31/2017 11:18:00AM

Print Date: 11/06/2017 1:37:43PM

Method Blank

Blank ID: MB for HBN 1771258 [BTF/16092]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423425

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 9222D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Fecal Coliform	1.00U	1.00	1.00	col/100mL

Batch Information

Analytical Batch: BTF16092

Analytical Method: SM21 9222D

Instrument:

Analyst: K.W

Analytical Date/Time: 10/31/2017 5:25:00PM

Print Date: 11/06/2017 1:37:45PM

Method Blank

Blank ID: MB for HBN 1771319 [STS/5714]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423525

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 2540D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Suspended Solids	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: STS5714

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Analytical Date/Time: 11/1/2017 9:43:17AM

Print Date: 11/06/2017 1:37:47PM

Duplicate Sample Summary

Original Sample ID: 1179454002

Analysis Date: 11/01/2017 09:43

Duplicate Sample ID: 1423528

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 2540D

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Suspended Solids	16.5	16.5	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS5714

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 11/06/2017 1:37:48PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179466 [STS5714]
 Blank Spike Lab ID: 1423526
 Date Analyzed: 11/01/2017 09:43

Spike Duplicate ID: LCSD for HBN 1179466 [STS5714]
 Spike Duplicate Lab ID: 1423527
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 2540D

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Suspended Solids	50	50.0	100	50	47.9	96	(75-125)	4.30	(< 5)

Batch Information

Analytical Batch: **STS5714**
 Analytical Method: **SM21 2540D**
 Instrument:
 Analyst: **EWV**

Method Blank

Blank ID: MB for HBN 1771359 (WFI/2612)

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1423750

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2612

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: AYC

Analytical Date/Time: 11/1/2017 1:53:35PM

Print Date: 11/06/2017 1:37:50PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179466 [WFI2612]

Blank Spike Lab ID: 1423749

Date Analyzed: 11/01/2017 13:51

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500NO3-F

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	2.5	2.71	108	(70-130)
Nitrite-N	2.5	2.47	99	(90-110)
Total Nitrate/Nitrite-N	5	5.17	103	(90-110)

Batch Information

Analytical Batch: **WFI2612**

Analytical Method: **SM21 4500NO3-F**

Instrument: **Astoria segmented flow**

Analyst: **AYC**

Print Date: 11/06/2017 1:37:51PM

Matrix Spike Summary

Original Sample ID: 1179438008
 MS Sample ID: 1423732 MS
 MSD Sample ID: 1423733 MSD

Analysis Date: 11/01/2017 13:23
 Analysis Date: 11/01/2017 13:25
 Analysis Date: 11/01/2017 13:27
 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	0.0500U	5.00	5.26	105	5.00	5.21	104	90-110	0.94	(< 25)

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 11/1/2017 1:25:35PM

Print Date: 11/06/2017 1:37:52PM

Matrix Spike Summary

Original Sample ID: 1179476026
 MS Sample ID: 1423734 MS
 MSD Sample ID: 1423735 MSD

Analysis Date: 11/01/2017 14:02
 Analysis Date: 11/01/2017 14:04
 Analysis Date: 11/01/2017 14:05
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500NO3-F

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Nitrate/Nitrite-N	0.0500U	5.00	5.38	108	5.00	5.26	105	90-110	2.20	(< 25)

Batch Information

Analytical Batch: WFI2612
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 11/1/2017 2:04:05PM

Method Blank

Blank ID: MB for HBN 1771351 [WXX/12089]
 Blank Lab ID: 1423690

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500-N D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Kjeldahl Nitrogen	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 11/1/2017 1:18:05PM

Prep Batch: WXX12089
 Prep Method: METHOD
 Prep Date/Time: 10/31/2017 6:11:00PM
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Print Date: 11/06/2017 1:37:52PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179466 [WXX12089]
 Blank Spike Lab ID: 1423691
 Date Analyzed: 11/01/2017 13:19

Spike Duplicate ID: LCSD for HBN 1179466 [WXX12089]
 Spike Duplicate Lab ID: 1423692
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500-N D

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Kjeldahl Nitrogen	4	3.75	94	4	3.80	95	(75-125)	1.30	(< 25)

Batch Information

Analytical Batch: **WDA4114**
 Analytical Method: **SM21 4500-N D**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12089**
 Prep Method: **METHOD**
 Prep Date/Time: **10/31/2017 18:11**
 Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Matrix Spike Summary

Original Sample ID: 1179438001
 MS Sample ID: 1423063 MS
 MSD Sample ID: 1423064 MSD

Analysis Date: 11/01/2017 13:22
 Analysis Date: 11/01/2017 13:23
 Analysis Date: 11/01/2017 13:24
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500-N D

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Kjeldahl Nitrogen	0.510J	4.00	4.17	92	4.00	4.35	96	75-125	4.10	(< 25)

Batch Information

Analytical Batch: WDA4114
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 11/1/2017 1:23:21PM

Prep Batch: WXX12089
 Prep Method: Distillation TKN by Phenate (W)
 Prep Date/Time: 10/31/2017 6:11:00PM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Print Date: 11/06/2017 1:37:54PM

Method Blank

Blank ID: MB for HBN 1771430 [WXX/12090]
Blank Lab ID: 1423863

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500P-B,E

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Total Phosphorus	0.0100U	0.0200	0.00620	mg/L

Batch Information

Analytical Batch: WDA4115
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 11/2/2017 11:44:29AM

Prep Batch: WXX12090
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/2/2017 10:22:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/06/2017 1:37:55PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1179466 [WXX12090]
 Blank Spike Lab ID: 1423864
 Date Analyzed: 11/02/2017 11:45

Spike Duplicate ID: LCSD for HBN 1179466
 [WXX12090]
 Spike Duplicate Lab ID: 1423865
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007,
 1179466008

Results by SM21 4500P-B,E

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.2	0.193	96	0.2	0.190	95	(85-115)	1.50	(< 25)

Batch Information

Analytical Batch: **WDA4115**
 Analytical Method: **SM21 4500P-B,E**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12090**
 Prep Method: **SM21 4500P-B,E**
 Prep Date/Time: **11/02/2017 10:22**
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Matrix Spike Summary

Original Sample ID: 1179466007
 MS Sample ID: 1423889 MS
 MSD Sample ID: 1423890 MSD

Analysis Date: 11/02/2017 11:52
 Analysis Date: 11/02/2017 11:55
 Analysis Date: 11/02/2017 11:56
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1179466001, 1179466002, 1179466003, 1179466004, 1179466005, 1179466006, 1179466007, 1179466008

Results by SM21 4500P-B,E

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Phosphorus	0.123	0.200	.314	96	0.200	0.316	97	75-125	0.54	(< 25)

Batch Information

Analytical Batch: WDA4115
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 11/2/2017 11:55:11AM

Prep Batch: WXX12090
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 11/2/2017 10:22:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL



SGS North America Inc.
CHAIN OF CUSTODY RECORD

1179466



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CLIENT: Startec CONTACT: John Marshall PHONE NO: 907-266-1108 PROJECT: PWSID/ PERMIT#: NAME: W. S. Williams Surface REPORTS TO: E-MAIL: John.Marshall@Startec.com QUOTE #: P.O. #:		INSTRUCTIONS: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.		Page <u>1</u> of <u>1</u>			
Section 1		Section 3		Preservative			
RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	# CONTAINERS	Type C-1 COMP C-2 GRAB C-3 MULTI Incremental Soils	REMARKS/LOC ID
① A-E Sw-11		10/31/17	1017	W	5	U	
② A-E Sw-12		10/31/17	1036	W	5	U	
③ A-E Sw-13		10/31/17	1054	W	5	U	
④ A-E Sw-14		10/31/17	1248	W	5	U	
⑤ A-E Sw-15		10/31/17	1244	W	5	U	
⑥ A-E Sw-16		10/31/17	1210	W	5	U	
⑦ A-E Sw-17		10/31/17	1355	W	5	U	
⑧ A-E Sw-19		10/31/17	1410	W	5	U	
Section 2		Section 4		Section 5			
Relinquished By: (1) John Marshall		Date 10/31/17		Received By: 			
Relinquished By: (2)		Date		Received By:			
Relinquished By: (3)		Date		Received By:			
Relinquished By: (4)		Date 10/31/17		Received By: John Marshall			
				Temp Blank °C: ① 1.0 ② 1.0 ③ 1.0 ④ 1.0			
				Chain of Custody Seal: (Circle) INTACT <input type="checkbox"/> BROKEN <input type="checkbox"/> ABSENT <input checked="" type="checkbox"/>			
				Requested Turnaround Time and/or Special Instructions:			
				Data Deliverable Requirements:			
				Section 4			
				Section 5			



e-Sample Receipt Form

SGS Workorder #:

1179466



1 1 7 9 4 6 6

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements	<input checked="" type="checkbox"/>	Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	<input type="checkbox"/> n/a	ABSENT
COC accompanied samples?	<input checked="" type="checkbox"/> yes	
<input type="checkbox"/> n/a	**Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required	
Temperature blank compliant* (i.e., 0-6 °C after CF)?	<input checked="" type="checkbox"/> yes	Cooler ID: 1 @ 1.4 °C Therm. ID: D42
	<input checked="" type="checkbox"/> yes	Cooler ID: 2 @ 1.6 °C Therm. ID: D42
	<input type="checkbox"/> n/a	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/> n/a	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/> n/a	Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	<input type="checkbox"/> n/a	
If <0°C, were sample containers ice free?	<input type="checkbox"/> n/a	
If samples received <u>without</u> a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "COOLER TEMP" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements	Note: Refer to form F-083 "Sample Guide" for specific holding times.	
Were samples received within holding time?	<input checked="" type="checkbox"/> yes	
Do samples match COC ** (i.e., sample IDs, dates/times collected)?	<input checked="" type="checkbox"/> yes	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	<input checked="" type="checkbox"/> yes	
Were proper containers (type/mass/volume/preservative***) used?	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> n/a ***Exemption permitted for metals (e.g.200.8/6020A).
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	<input type="checkbox"/> n/a	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	<input type="checkbox"/> n/a	
Were all soil VOAs field extracted with MeOH+BFB?	<input type="checkbox"/> n/a	
Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.		
Additional notes (if applicable):		



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1179466001-A	No Preservative Required	OK			
1179466001-B	No Preservative Required	OK			
1179466001-C	Na2S2O3 for Chlorine Redu	OK			
1179466001-D	Na2S2O3 for Chlorine Redu	OK			
1179466001-E	H2SO4 to pH < 2	OK			
1179466002-A	No Preservative Required	OK			
1179466002-B	No Preservative Required	OK			
1179466002-C	Na2S2O3 for Chlorine Redu	OK			
1179466002-D	Na2S2O3 for Chlorine Redu	OK			
1179466002-E	H2SO4 to pH < 2	OK			
1179466003-A	No Preservative Required	OK			
1179466003-B	No Preservative Required	OK			
1179466003-C	Na2S2O3 for Chlorine Redu	OK			
1179466003-D	Na2S2O3 for Chlorine Redu	OK			
1179466003-E	H2SO4 to pH < 2	OK			
1179466004-A	No Preservative Required	OK			
1179466004-B	No Preservative Required	OK			
1179466004-C	Na2S2O3 for Chlorine Redu	OK			
1179466004-D	Na2S2O3 for Chlorine Redu	OK			
1179466004-E	H2SO4 to pH < 2	OK			
1179466005-A	No Preservative Required	OK			
1179466005-B	No Preservative Required	OK			
1179466005-C	Na2S2O3 for Chlorine Redu	OK			
1179466005-D	Na2S2O3 for Chlorine Redu	OK			
1179466005-E	H2SO4 to pH < 2	OK			
1179466006-A	No Preservative Required	OK			
1179466006-B	No Preservative Required	OK			
1179466006-C	Na2S2O3 for Chlorine Redu	OK			
1179466006-D	Na2S2O3 for Chlorine Redu	OK			
1179466006-E	H2SO4 to pH < 2	OK			
1179466007-A	No Preservative Required	OK			
1179466007-B	No Preservative Required	OK			
1179466007-C	Na2S2O3 for Chlorine Redu	OK			
1179466007-D	Na2S2O3 for Chlorine Redu	OK			
1179466007-E	H2SO4 to pH < 2	OK			
1179466008-A	No Preservative Required	OK			
1179466008-B	No Preservative Required	OK			
1179466008-C	Na2S2O3 for Chlorine Redu	OK			
1179466008-D	Na2S2O3 for Chlorine Redu	OK			
1179466008-E	H2SO4 to pH < 2	OK			

Container Id

Preservative

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 that 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.

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.