

Laboratory Report of Analysis

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

Report Number: **1181726**

Client Project: **Wasilla WWTP**

Dear John Marshall,

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

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

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

Sincerely,
SGS North America Inc.

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

Case Narrative

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

SGS Project: **1181726**

Project Name/Site: **Wasilla WWTP**

Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1181706002DUP (1443255) DUP

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

MB for HBN 1778834 [BOD/6024] (1443055) MB

5210B – BOD - MB (0.64mg/L) is greater than the recommended limit of 0.2 mg/L. Samples >10X the MB are not significantly affected. Samples <10X the MB results 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: 05/04/2018 3:18:26PM

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 & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). 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	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

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>
SW1	1181726001	04/24/2018	04/24/2018	Water (Surface, Eff., Ground)
SW2	1181726002	04/24/2018	04/24/2018	Water (Surface, Eff., Ground)
SW5	1181726003	04/24/2018	04/24/2018	Water (Surface, Eff., Ground)
SW17	1181726004	04/24/2018	04/24/2018	Water (Surface, Eff., Ground)
SW18	1181726005	04/24/2018	04/24/2018	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
SM21 4500-NH3 G	Ammonia-N (W) SM21 4500-NH3 G
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
SM21 4500NO3-F	Flow Injection Analysis
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: 05/04/2018 3:18:29PM

Detectable Results Summary

Client Sample ID: **SW1**
 Lab Sample ID: 1181726001
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	21.2	mg/L
E. Coli	4	MPN/100mL
Total Coliform	110	MPN/100mL
Ammonia-N	0.125	mg/L
Nitrate-N	0.0304J	mg/L
Total Kjeldahl Nitrogen	1.57	mg/L
Total Phosphorus	0.183	mg/L
Total Suspended Solids	11.2	mg/L

Client Sample ID: **SW2**
 Lab Sample ID: 1181726002
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	7.05	mg/L
E. Coli	1	MPN/100mL
Fecal Coliform	2.0	col/100mL
Total Coliform	411	MPN/100mL
Ammonia-N	0.0320J	mg/L
Nitrate-N	0.0474J	mg/L
Total Kjeldahl Nitrogen	1.31	mg/L
Total Phosphorus	0.0796	mg/L
Total Suspended Solids	8.40	mg/L

Client Sample ID: **SW5**
 Lab Sample ID: 1181726003
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	2.65	mg/L
E. Coli	12	MPN/100mL
Fecal Coliform	5.0	col/100mL
Total Coliform	228	MPN/100mL
Ammonia-N	0.0791J	mg/L
Nitrate-N	0.0372J	mg/L
Total Kjeldahl Nitrogen	0.698J	mg/L
Total Phosphorus	0.0392	mg/L
Total Suspended Solids	3.94	mg/L

Client Sample ID: **SW17**
 Lab Sample ID: 1181726004
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	5	MPN/100mL
Fecal Coliform	11	col/100mL
Total Coliform	154	MPN/100mL
Ammonia-N	0.144	mg/L
Nitrate-N	1.07	mg/L
Total Kjeldahl Nitrogen	0.907J	mg/L
Total Phosphorus	0.209	mg/L
Total Suspended Solids	3.75	mg/L

Detectable Results Summary

Client Sample ID: **SW18**
 Lab Sample ID: 1181726005
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	2.31	mg/L
E. Coli	5	MPN/100mL
Fecal Coliform	4.0	col/100mL
Total Coliform	127	MPN/100mL
Ammonia-N	0.788	mg/L
Nitrate-N	1.74	mg/L
Nitrite-N	0.0274J	mg/L
Total Kjeldahl Nitrogen	2.13	mg/L
Total Phosphorus	1.46	mg/L
Total Suspended Solids	5.05	mg/L

Print Date: 05/04/2018 3:18:30PM



Results of SW1

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726001
Lab Project ID: 1181726

Collection Date: 04/24/18 11:32
Received Date: 04/24/18 17:11
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	21.2	2.00	2.00	mg/L	1		04/25/18 16:39

Batch Information

Analytical Batch: BOD6024
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 04/25/18 16:39
Container ID: 1181726001-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		04/24/18 18:01

Batch Information

Analytical Batch: BTF16499
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 04/24/18 18:01
Container ID: 1181726001-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>
E. Coli	4	1	1	MPN/100r	1		04/24/18 18:12
Total Coliform	110	10	10	MPN/100r	10		04/24/18 18:12

Batch Information

Analytical Batch: BTF16497
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 04/24/18 18:12
Container ID: 1181726001-D



Results of SW1

Client Sample ID: SW1
Client Project ID: Wasilla WWTP
Lab Sample ID: 1181726001
Lab Project ID: 1181726

Collection Date: 04/24/18 11:32
Received Date: 04/24/18 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row 1: Total Suspended Solids, 11.2, 4.00, 1.24, mg/L, 1, 04/26/18 18:32

Batch Information

Analytical Batch: STS5857
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 04/26/18 18:32
Container ID: 1181726001-B

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row 1: Total Kjeldahl Nitrogen, 1.57, 1.00, 0.310, mg/L, 1, 05/03/18 10:12

Batch Information

Analytical Batch: WDA4262
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 05/03/18 10:12
Container ID: 1181726001-F
Prep Batch: WXX12300
Prep Method: METHOD
Prep Date/Time: 05/02/18 11:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row 1: Ammonia-N, 0.125, 0.100, 0.0310, mg/L, 1, 04/26/18 16:16

Batch Information

Analytical Batch: WDA4251
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 04/26/18 16:16
Container ID: 1181726001-F
Prep Batch: WXX12286
Prep Method: METHOD
Prep Date/Time: 04/26/18 14:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Nitrate-N (0.0304 J), Nitrite-N (0.0500 U)

Results of SW1

Client Sample ID: **SW1**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181726001
 Lab Project ID: 1181726

Collection Date: 04/24/18 11:32
 Received Date: 04/24/18 17:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2675
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/24/18 18:26
 Container ID: 1181726001-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	0.183	0.0200	0.00500	mg/L	1		04/30/18 16:13

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 16:13
 Container ID: 1181726001-F

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 13:10
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL



Results of SW2

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726002
Lab Project ID: 1181726

Collection Date: 04/24/18 10:42
Received Date: 04/24/18 17:11
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	7.05	2.00	2.00	mg/L	1		04/25/18 16:39

Batch Information

Analytical Batch: BOD6024
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 04/25/18 16:39
Container ID: 1181726002-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	2.0	1.00	1.00	col/100mL	1		04/24/18 18:01

Batch Information

Analytical Batch: BTF16499
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 04/24/18 18:01
Container ID: 1181726002-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>
E. Coli	1	1	1	MPN/100r	1		04/24/18 18:12
Total Coliform	411	1	1	MPN/100r	1		04/24/18 18:12

Batch Information

Analytical Batch: BTF16497
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 04/24/18 18:12
Container ID: 1181726002-D



Results of SW2

Client Sample ID: SW2
Client Project ID: Wasilla WWTP
Lab Sample ID: 1181726002
Lab Project ID: 1181726

Collection Date: 04/24/18 10:42
Received Date: 04/24/18 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row 1: Total Suspended Solids, 8.40, 2.00, 0.620, mg/L, 1, 04/26/18 18:32

Batch Information

Analytical Batch: STS5857
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 04/26/18 18:32
Container ID: 1181726002-B

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row 1: Total Kjeldahl Nitrogen, 1.31, 1.00, 0.310, mg/L, 1, 05/03/18 10:16

Batch Information

Analytical Batch: WDA4262
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 05/03/18 10:16
Container ID: 1181726002-F
Prep Batch: WXX12300
Prep Method: METHOD
Prep Date/Time: 05/02/18 11:26
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row 1: Ammonia-N, 0.0320 J, 0.100, 0.0310, mg/L, 1, 04/26/18 16:18

Batch Information

Analytical Batch: WDA4251
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 04/26/18 16:18
Container ID: 1181726002-F
Prep Batch: WXX12286
Prep Method: METHOD
Prep Date/Time: 04/26/18 14:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Rows: Nitrate-N (0.0474 J), Nitrite-N (0.0500 U)



Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726002
Lab Project ID: 1181726

Collection Date: 04/24/18 10:42
Received Date: 04/24/18 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2675
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 04/24/18 18:28
Container ID: 1181726002-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	0.0796	0.0200	0.00500	mg/L	1		04/30/18 16:14

Batch Information

Analytical Batch: WDA4254
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 04/30/18 16:14
Container ID: 1181726002-F

Prep Batch: WXX12291
Prep Method: SM21 4500P-B,E
Prep Date/Time: 04/30/18 13:10
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of SW5

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726003
Lab Project ID: 1181726

Collection Date: 04/24/18 10:14
Received Date: 04/24/18 17:11
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	2.65	2.00	2.00	mg/L	1		04/25/18 16:39

Batch Information

Analytical Batch: BOD6024
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 04/25/18 16:39
Container ID: 1181726003-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	5.0	1.00	1.00	col/100mL	1		04/25/18 18:01

Batch Information

Analytical Batch: BTF16499
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 04/24/18 18:01
Container ID: 1181726003-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>
E. Coli	12	1	1	MPN/100r	1		04/24/18 18:12
Total Coliform	228	1	1	MPN/100r	1		04/24/18 18:12

Batch Information

Analytical Batch: BTF16497
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 04/24/18 18:12
Container ID: 1181726003-D



Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726003
Lab Project ID: 1181726

Collection Date: 04/24/18 10:14
Received Date: 04/24/18 17:11
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	3.94	1.06	0.330	mg/L	1		04/26/18 18:32

Batch Information

Analytical Batch: STS5857
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 04/26/18 18:32
Container ID: 1181726003-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	0.698 J	1.00	0.310	mg/L	1		05/03/18 10:17

Batch Information

Analytical Batch: WDA4262	Prep Batch: WXX12300
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 05/02/18 11:26
Analytical Date/Time: 05/03/18 10:17	Prep Initial Wt./Vol.: 25 mL
Container ID: 1181726003-F	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>
Ammonia-N	0.0791 J	0.100	0.0310	mg/L	1		04/26/18 16:20

Batch Information

Analytical Batch: WDA4251	Prep Batch: WXX12286
Analytical Method: SM21 4500-NH3 G	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 04/26/18 14:05
Analytical Date/Time: 04/26/18 16:20	Prep Initial Wt./Vol.: 6 mL
Container ID: 1181726003-F	Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0372 J	0.100	0.0250	mg/L	2		04/24/18 18:29
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/24/18 18:29

Print Date: 05/04/2018 3:18:31PM

J flagging is activated

Results of SW5

Client Sample ID: **SW5**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181726003
 Lab Project ID: 1181726

Collection Date: 04/24/18 10:14
 Received Date: 04/24/18 17:11
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2675
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/24/18 18:29
 Container ID: 1181726003-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	0.0392	0.0200	0.00500	mg/L	1		04/30/18 17:17

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 17:17
 Container ID: 1181726003-F

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 14:17
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL



Results of SW17

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726004
Lab Project ID: 1181726

Collection Date: 04/24/18 15:33
Received Date: 04/24/18 17:11
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		04/25/18 16:39

Batch Information

Analytical Batch: BOD6024
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 04/25/18 16:39
Container ID: 1181726004-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	11	1.00	1.00	col/100mL	1		04/24/18 18:01

Batch Information

Analytical Batch: BTF16499
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 04/24/18 18:01
Container ID: 1181726004-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>
E. Coli	5	1	1	MPN/100r	1		04/24/18 18:12
Total Coliform	154	1	1	MPN/100r	1		04/24/18 18:12

Batch Information

Analytical Batch: BTF16497
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 04/24/18 18:12
Container ID: 1181726004-D



Results of SW17

Client Sample ID: SW17
Client Project ID: Wasilla WWTP
Lab Sample ID: 1181726004
Lab Project ID: 1181726

Collection Date: 04/24/18 15:33
Received Date: 04/24/18 17:11
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	3.75	1.04	0.323	mg/L	1		04/26/18 18:32

Batch Information

Analytical Batch: STS5857
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 04/26/18 18:32
Container ID: 1181726004-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	0.907 J	1.00	0.310	mg/L	1		05/03/18 10:19

Batch Information

Analytical Batch: WDA4262	Prep Batch: WXX12300
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 05/02/18 11:26
Analytical Date/Time: 05/03/18 10:19	Prep Initial Wt./Vol.: 25 mL
Container ID: 1181726004-F	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>
Ammonia-N	0.144	0.100	0.0310	mg/L	1		04/26/18 16:21

Batch Information

Analytical Batch: WDA4251	Prep Batch: WXX12286
Analytical Method: SM21 4500-NH3 G	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 04/26/18 14:05
Analytical Date/Time: 04/26/18 16:21	Prep Initial Wt./Vol.: 6 mL
Container ID: 1181726004-F	Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	1.07	0.100	0.0250	mg/L	2		04/24/18 18:31
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/24/18 18:31



Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726004
Lab Project ID: 1181726

Collection Date: 04/24/18 15:33
Received Date: 04/24/18 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2675
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 04/24/18 18:31
Container ID: 1181726004-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	0.209	0.0200	0.00500	mg/L	1		04/30/18 17:18

Batch Information

Analytical Batch: WDA4255
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 04/30/18 17:18
Container ID: 1181726004-F

Prep Batch: WXX12292
Prep Method: SM21 4500P-B,E
Prep Date/Time: 04/30/18 14:17
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL



Results of SW18

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726005
Lab Project ID: 1181726

Collection Date: 04/24/18 15:07
Received Date: 04/24/18 17:11
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	2.31	2.00	2.00	mg/L	1		04/25/18 16:39

Batch Information

Analytical Batch: BOD6024
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 04/25/18 16:39
Container ID: 1181726005-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	2.00	2.00	col/100mL	1		04/25/18 18:01

Batch Information

Analytical Batch: BTF16499
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 04/24/18 18:01
Container ID: 1181726005-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>
E. Coli	5	1	1	MPN/100r	1		04/24/18 18:12
Total Coliform	127	1	1	MPN/100r	1		04/24/18 18:12

Batch Information

Analytical Batch: BTF16497
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 04/24/18 18:12
Container ID: 1181726005-D



Results of SW18

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726005
Lab Project ID: 1181726

Collection Date: 04/24/18 15:07
Received Date: 04/24/18 17:11
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	5.05	1.03	0.320	mg/L	1		04/26/18 18:32

Batch Information

Analytical Batch: STS5857
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 04/26/18 18:32
Container ID: 1181726005-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	2.13	1.00	0.310	mg/L	1		05/03/18 10:20

Batch Information

Analytical Batch: WDA4262	Prep Batch: WXX12300
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 05/02/18 11:26
Analytical Date/Time: 05/03/18 10:20	Prep Initial Wt./Vol.: 25 mL
Container ID: 1181726005-F	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>
Ammonia-N	0.788	0.100	0.0310	mg/L	1		04/26/18 16:01

Batch Information

Analytical Batch: WDA4251	Prep Batch: WXX12286
Analytical Method: SM21 4500-NH3 G	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 04/26/18 14:05
Analytical Date/Time: 04/26/18 16:01	Prep Initial Wt./Vol.: 6 mL
Container ID: 1181726005-F	Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	1.74	0.100	0.0250	mg/L	2		04/24/18 18:33
Nitrite-N	0.0274 J	0.100	0.0250	mg/L	2		04/24/18 18:33

Print Date: 05/04/2018 3:18:31PM

J flagging is activated



Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1181726005
Lab Project ID: 1181726

Collection Date: 04/24/18 15:07
Received Date: 04/24/18 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WFI2675
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 04/24/18 18:33
Container ID: 1181726005-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	1.46	0.500	0.125	mg/L	1		04/30/18 16:09

Batch Information

Analytical Batch: WDA4254
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 04/30/18 16:09
Container ID: 1181726005-F

Prep Batch: WXX12291
Prep Method: SM21 4500P-B,E
Prep Date/Time: 04/30/18 13:10
Prep Initial Wt./Vol.: 1 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1778834 [BOD/6024]

Blank Lab ID: 1443055

QC for Samples:

1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Matrix: Water (Surface, Eff., Ground)

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: BOD6024

Analytical Method: SM21 5210B

Instrument:

Analyst: A.L

Analytical Date/Time: 4/25/2018 4:39:28PM

Print Date: 05/04/2018 3:18:33PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181726 [BOD6024]

Blank Spike Lab ID: 1443056

Date Analyzed: 04/25/2018 16:39

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Results by SM21 5210B

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Biochemical Oxygen Demand	198	221	112	(84.6-115.4

Batch Information

Analytical Batch: **BOD6024**

Analytical Method: **SM21 5210B**

Instrument:

Analyst: **A.L**

Print Date: 05/04/2018 3:18:35PM

Method Blank

Blank ID: MB for HBN 1778780 [BTF/16497]

Blank Lab ID: 1442856

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181726001, 1181726002, 1181726003, 1181726004, 1181726005

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: BTF16497

Analytical Method: SM21 9223B

Instrument:

Analyst: K.W

Analytical Date/Time: 4/24/2018 2:09:00PM

Print Date: 05/04/2018 3:18:37PM

Method Blank

Blank ID: MB for HBN 1778782 [BTF/16499]
Blank Lab ID: 1442868

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1181726001, 1181726002, 1181726003, 1181726004, 1181726005

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: BTF16499
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 4/24/2018 6:01:00PM

Print Date: 05/04/2018 3:18:38PM

Method Blank

Blank ID: MB for HBN 1778888 [STS/5857]

Blank Lab ID: 1443252

QC for Samples:

1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Matrix: Water (Surface, Eff., Ground)

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: STS5857

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Analytical Date/Time: 4/26/2018 6:32:22PM

Print Date: 05/04/2018 3:18:41PM

Duplicate Sample Summary

Original Sample ID: 1181706002
 Duplicate Sample ID: 1443255
 QC for Samples:

Analysis Date: 04/26/2018 18:32
 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	3.60	3.00	mg/L	18.20*	(< 5)

Batch Information

Analytical Batch: STS5857
 Analytical Method: SM21 2540D
 Instrument:
 Analyst: EWW

Print Date: 05/04/2018 3:18:42PM

Duplicate Sample Summary

Original Sample ID: 1181706003

Duplicate Sample ID: 1443256

QC for Samples:

1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Analysis Date: 04/26/2018 18:32

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	4.69	4.69	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS5857

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 05/04/2018 3:18:42PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181726 [STS5857]
 Blank Spike Lab ID: 1443253
 Date Analyzed: 04/26/2018 18:32

Spike Duplicate ID: LCSD for HBN 1181726 [STS5857]
 Spike Duplicate Lab ID: 1443254
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

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	46.9	94	50	47.5	95	(75-125)	1.30	(< 5)

Batch Information

Analytical Batch: STS5857
 Analytical Method: SM21 2540D
 Instrument:
 Analyst: EWW

Method Blank

Blank ID: MB for HBN 1778847 (WFI/2675)

Blank Lab ID: 1443111

QC for Samples:

1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Matrix: Water (Surface, Eff., Ground)

Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.0498J	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0528J	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2675

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: AYC

Analytical Date/Time: 4/24/2018 6:21:13PM

Print Date: 05/04/2018 3:18:44PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181726 [WFI2675]

Blank Spike Lab ID: 1443105

Date Analyzed: 04/24/2018 18:19

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Results by SM21 4500NO3-F

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	2.5	2.60	104	(70-130)
Nitrite-N	2.5	2.50	100	(90-110)
Total Nitrate/Nitrite-N	5	5.11	102	(90-110)

Batch Information

Analytical Batch: **WFI2675**

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

Instrument: **Astoria segmented flow**

Analyst: **AYC**

Matrix Spike Summary

Original Sample ID: 1181726005
 MS Sample ID: 1443103 MS
 MSD Sample ID: 1443104 MSD

Analysis Date: 04/24/2018 18:33
 Analysis Date: 04/24/2018 18:35
 Analysis Date: 04/24/2018 18:36
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

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 (%)			
Nitrate-N	1.74	2.50	4.42	107	2.50	4.47	109	70-130	1.10	(< 25)
Nitrite-N	0.0274J	2.50	2.6	103	2.50	2.62	104	90-110	0.66	(< 25)

Batch Information

Analytical Batch: WFI2675
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 4/24/2018 6:35:13PM

Print Date: 05/04/2018 3:18:46PM

Method Blank

Blank ID: MB for HBN 1778895 [WXX/12286]
Blank Lab ID: 1443277

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Results by SM21 4500-NH3 G

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Ammonia-N	0.0366J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4251
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 4/26/2018 3:56:38PM

Prep Batch: WXX12286
Prep Method: METHOD
Prep Date/Time: 4/26/2018 2:05:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 05/04/2018 3:18:47PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181726 [WXX12286]
 Blank Spike Lab ID: 1443278
 Date Analyzed: 04/26/2018 15:58

Spike Duplicate ID: LCSD for HBN 1181726 [WXX12286]
 Spike Duplicate Lab ID: 1443279
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Results by SM21 4500-NH3 G

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Ammonia-N	1	0.891	89	1	1.00	100	(75-125)	12.00	(< 25)

Batch Information

Analytical Batch: **WDA4251**
 Analytical Method: **SM21 4500-NH3 G**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12286**
 Prep Method: **METHOD**
 Prep Date/Time: **04/26/2018 14:05**
 Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
 Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Matrix Spike Summary

Original Sample ID: 1181726005
 MS Sample ID: 1443280 MS
 MSD Sample ID: 1443281 MSD

Analysis Date: 04/26/2018 16:01
 Analysis Date: 04/26/2018 16:03
 Analysis Date: 04/26/2018 16:05
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Results by SM21 4500-NH3 G

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Ammonia-N	0.788	1.00	1.86	107	1.00	1.70	91	75-125	8.80	(< 25)

Batch Information

Analytical Batch: WDA4251
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/26/2018 4:03:22PM

Prep Batch: WXX12286
 Prep Method: Ammonia by SM21 4500F prep (W)
 Prep Date/Time: 4/26/2018 2:05:00PM
 Prep Initial Wt./Vol.: 6.00mL
 Prep Extract Vol: 6.00mL

Method Blank

Blank ID: MB for HBN 1779026 [WXX/12291]
Blank Lab ID: 1443854

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1181726001, 1181726002, 1181726005

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	0.00500	mg/L

Batch Information

Analytical Batch: WDA4254
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 4/30/2018 4:06:50PM

Prep Batch: WXX12291
Prep Method: SM21 4500P-B,E
Prep Date/Time: 4/30/2018 1:10:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 05/04/2018 3:18:50PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181726 [WXX12291]
 Blank Spike Lab ID: 1443855
 Date Analyzed: 04/30/2018 16:07

Spike Duplicate ID: LCSD for HBN 1181726 [WXX12291]
 Spike Duplicate Lab ID: 1443856
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726005

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	103	0.2	0.207	103	(85-115)	0.05	(< 25)

Batch Information

Analytical Batch: **WDA4254**
 Analytical Method: **SM21 4500P-B,E**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12291**
 Prep Method: **SM21 4500P-B,E**
 Prep Date/Time: **04/30/2018 13:10**
 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: 1181726005
 MS Sample ID: 1443857 MS
 MSD Sample ID: 1443858 MSD

Analysis Date: 04/30/2018 16:09
 Analysis Date: 04/30/2018 16:10
 Analysis Date: 04/30/2018 16:11
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726005

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	1.46	5.00	6.93	110	5.00	6.87	108	75-125	0.91	(< 25)

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/30/2018 4:10:46PM

Prep Batch: WXX12291
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 4/30/2018 1:10:00PM
 Prep Initial Wt./Vol.: 1.00mL
 Prep Extract Vol: 25.00mL

Print Date: 05/04/2018 3:18:52PM

Method Blank

Blank ID: MB for HBN 1779030 [WXX/12292]

Blank Lab ID: 1443873

QC for Samples:

1181726003, 1181726004

Matrix: Water (Surface, Eff., Ground)

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	0.00500	mg/L

Batch Information

Analytical Batch: WDA4255
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 4/30/2018 5:10:19PM

Prep Batch: WXX12292
Prep Method: SM21 4500P-B,E
Prep Date/Time: 4/30/2018 2:17:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 05/04/2018 3:18:53PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181726 [WXX12292]
 Blank Spike Lab ID: 1443874
 Date Analyzed: 04/30/2018 17:11

Spike Duplicate ID: LCSD for HBN 1181726 [WXX12292]
 Spike Duplicate Lab ID: 1443875
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726003, 1181726004

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	0.208	104	0.2	0.210	105	(85-115)	0.91	(< 25)

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/2018 14:17
 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: 1181780001
 MS Sample ID: 1443876 MS
 MSD Sample ID: 1443877 MSD

Analysis Date: 04/30/2018 17:13
 Analysis Date: 04/30/2018 17:14
 Analysis Date: 04/30/2018 17:15
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726003, 1181726004

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	0.0165J	0.200	.228	106	0.200	0.223	103	75-125	2.10	(< 25)

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/30/2018 5:14:13PM

Prep Batch: WXX12292
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 4/30/2018 2:17:00PM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Method Blank

Blank ID: MB for HBN 1779164 [WXX/12300]

Blank Lab ID: 1444508

QC for Samples:

1181726001, 1181726002, 1181726003, 1181726004, 1181726005

Matrix: Water (Surface, Eff., Ground)

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: WDA4262

Analytical Method: SM21 4500-N D

Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 5/3/2018 10:00:59AM

Prep Batch: WXX12300

Prep Method: METHOD

Prep Date/Time: 5/2/2018 11:26:00AM

Prep Initial Wt./Vol.: 25 mL

Prep Extract Vol: 25 mL

Print Date: 05/04/2018 3:18:56PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181726 [WXX12300]
 Blank Spike Lab ID: 1444509
 Date Analyzed: 05/03/2018 10:02

Spike Duplicate ID: LCSD for HBN 1181726 [WXX12300]
 Spike Duplicate Lab ID: 1444510
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

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	3.51	88	4	3.64	91	(75-125)	3.60	(< 25)

Batch Information

Analytical Batch: **WDA4262**
 Analytical Method: **SM21 4500-N D**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12300**
 Prep Method: **METHOD**
 Prep Date/Time: **05/02/2018 11:26**
 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: 1188801005
 MS Sample ID: 1444511 MS
 MSD Sample ID: 1444512 MSD

Analysis Date: 05/03/2018 10:07
 Analysis Date: 05/03/2018 10:08
 Analysis Date: 05/03/2018 10:10
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181726001, 1181726002, 1181726003, 1181726004, 1181726005

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	1.00U	4.00	3.84	96	4.00	3.14	78	75-125	20.20	(< 25)

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 5/3/2018 10:08:50AM

Prep Batch: WXX12300
 Prep Method: Distillation TKN by Phenate (W)
 Prep Date/Time: 5/2/2018 11:26:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Print Date: 05/04/2018 3:19:01PM



SGS North America Inc. CHAIN OF CUSTODY RECORD

1181726



Locations Nationwide: Maryland, New York, Florida, New Jersey, Carolina

www.us.sgs.com

CLIENT: Stantec

CONTACT: Jake Alward **PHONE #:** 343 5202

PROJECT NAME: Wasilk WWTP **PROJECT/PWSID/PERMIT#:**

REPORTS TO: **E-MAIL:** jake.alward@stantec.com

INVOICE TO: Stantec **QUOTE#:** **P.O. #:** 204700415

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

Page 1 of 1

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	# CONTAINERS	Pres Type:	Preservative							REMARKS/LOC ID		
							BOD	TSS	Fecal Coliform	Total Coliform - Quantitray	Nitrate/Nitrite	Ammonia/TKN/T-Phos				
① A-F	SW1	4/24/18	1132		6	G										
② A-F	SW2	4/24/18	1042		6	G										
③ A-F	SW5	4/24/18	1014		6	G										
④ A-F	SW7	4/24/18	1533		6	G										
⑤ A-F	SW18	4/24/18	1507		6	G										

Section 4 DOD Project? Yes No **Data Deliverable Requirements:**

Section 5 Relinquished By: (1) [Signature] Date: 4/24/18 Time: 17:11 Received By: [Signature]

Relinquished By: (2) Date: Time: Received By:

Relinquished By: (3) Date: Time: Received By:

Relinquished By: (4) Date: 4/24/18 Time: 17:11 Received For Laboratory By: [Signature]

Temp Blank °C: 4.9 #030 Chain of Custody Seal: (Circle) INTACT BROKEN **ABSENT**

Delivery Method: Hand Delivery Commercial Delivery []

NW

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



e-Sample Receipt Form

SGS Workorder #:

1181726



1 1 8 1 7 2 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 @ 4.9 °C Therm. ID: D30
	<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:
	<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>
1181726001-A	No Preservative Required	OK			
1181726001-B	No Preservative Required	OK			
1181726001-C	Na2S2O3 for Chlorine Redu	OK			
1181726001-D	Na2S2O3 for Chlorine Redu	OK			
1181726001-E	No Preservative Required	OK			
1181726001-F	H2SO4 to pH < 2	OK			
1181726002-A	No Preservative Required	OK			
1181726002-B	No Preservative Required	OK			
1181726002-C	Na2S2O3 for Chlorine Redu	OK			
1181726002-D	Na2S2O3 for Chlorine Redu	OK			
1181726002-E	No Preservative Required	OK			
1181726002-F	H2SO4 to pH < 2	OK			
1181726003-A	No Preservative Required	OK			
1181726003-B	No Preservative Required	OK			
1181726003-C	Na2S2O3 for Chlorine Redu	OK			
1181726003-D	Na2S2O3 for Chlorine Redu	OK			
1181726003-E	No Preservative Required	OK			
1181726003-F	H2SO4 to pH < 2	OK			
1181726004-A	No Preservative Required	OK			
1181726004-B	No Preservative Required	OK			
1181726004-C	Na2S2O3 for Chlorine Redu	OK			
1181726004-D	Na2S2O3 for Chlorine Redu	OK			
1181726004-E	No Preservative Required	OK			
1181726004-F	H2SO4 to pH < 2	OK			
1181726005-A	No Preservative Required	OK			
1181726005-B	No Preservative Required	OK			
1181726005-C	Na2S2O3 for Chlorine Redu	OK			
1181726005-D	Na2S2O3 for Chlorine Redu	OK			
1181726005-E	No Preservative Required	OK			
1181726005-F	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.

Laboratory Report of Analysis

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

Report Number: **1181780**

Client Project: **Wasilla WWTP**

Dear John Marshall,

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

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

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

Sincerely,
SGS North America Inc.

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
 SGS Project: **1181780**
 Project Name/Site: **Wasilla WWTP**
 Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SW4 (1181780001) PS

9222D - Fecal coliform sample received with insufficient holding time remaining for analysis. ADEC allows 8 hours from the time of collection to analysis.

SW6 (1181780002) PS

9222D - Fecal coliform sample received with insufficient holding time remaining for analysis. ADEC allows 8 hours from the time of collection to analysis.

SW8 (1181780005) PS

Corrected Report - This report has been reissued to report Total Coliform / E. coli results from the 10x dilution only.

SW13 (1181780007) PS

9222D - Fecal coliform sample received and analyzed 59 minutes past MB2. Sample results are less than 20-60 CFU and thus not significantly affected.

SW16 (1181780008) PS

9222D - Fecal coliform sample received and analyzed 59 minutes past MB2. Sample results are less than 20-60 CFU and thus not significantly affected.

SW15 (1181780009) PS

9222D - Fecal coliform sample received and analyzed 59 minutes past MB2. Sample is non detect and thus not significantly affected.

TS1 (1181780010) PS

9222D - Fecal coliform sample received and analyzed 59 minutes past MB2. Sample is non detect and thus not significantly affected.

TS2 (1181780011) PS

9222D - Fecal coliform sample received and analyzed 59 minutes past MB2. Preceding samples were non detect.

TS3 (1181780012) PS

9222D - Fecal coliform sample received and analyzed 59 minutes past MB2. Preceding samples were non detect.

1181780001DUP (1444175) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. Both sample and duplicate concentrations are less than the LOQ.

1181780010DUP (1444176) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. Both sample and duplicate concentrations are less than the LOQ.

MB for HBN 1778967 [BOD/6026] (1443574) MB

5210B - BOD - MB depletion (0.61 mg/L) is greater than the recommended limit of 0.2 mg/L. Samples >10X the MB are not significantly affected; Samples <10X the MB results 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.

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 & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). 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	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

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>
SW4	1181780001	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW6	1181780002	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW10	1181780003	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW9	1181780004	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW8	1181780005	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW12	1181780006	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW13	1181780007	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW16	1181780008	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
SW15	1181780009	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
TS1	1181780010	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
TS2	1181780011	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)
TS3	1181780012	04/26/2018	04/26/2018	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
SM21 4500-NH3 G	Ammonia-N (W) SM21 4500-NH3 G
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
SM21 4500NO3-F	Flow Injection Analysis
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: 05/15/2018 2:23:23PM

Detectable Results Summary

Client Sample ID: **SW4**
 Lab Sample ID: 1181780001
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	14	MPN/100mL
Fecal Coliform	7.0	col/100mL
Total Coliform	109	MPN/100mL
Ammonia-N	0.0363J	mg/L
Nitrate-N	0.0426J	mg/L
Total Kjeldahl Nitrogen	0.524J	mg/L
Total Phosphorus	0.0165J	mg/L

Client Sample ID: **SW6**
 Lab Sample ID: 1181780002
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	2.24	mg/L
E. Coli	1	MPN/100mL
Fecal Coliform	6.0	col/100mL
Total Coliform	51	MPN/100mL
Ammonia-N	0.0942J	mg/L
Nitrate-N	0.0506J	mg/L
Total Kjeldahl Nitrogen	0.557J	mg/L
Total Phosphorus	0.0161J	mg/L
Total Suspended Solids	1.02	mg/L

Client Sample ID: **SW10**
 Lab Sample ID: 1181780003
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	3.10	mg/L
E. Coli	2	MPN/100mL
Total Coliform	46	MPN/100mL
Ammonia-N	0.191	mg/L
Nitrate-N	0.0466J	mg/L
Total Kjeldahl Nitrogen	0.743J	mg/L
Total Phosphorus	0.0379	mg/L
Total Suspended Solids	9.00	mg/L

Client Sample ID: **SW9**
 Lab Sample ID: 1181780004
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	6.07	mg/L
E. Coli	118	MPN/100mL
Fecal Coliform	92	col/100mL
Total Coliform	157	MPN/100mL
Ammonia-N	0.107	mg/L
Nitrate-N	0.0388J	mg/L
Total Kjeldahl Nitrogen	0.603J	mg/L
Total Phosphorus	0.0279	mg/L
Total Suspended Solids	14.4	mg/L

Detectable Results Summary

Client Sample ID: **SW8**
 Lab Sample ID: 1181780005
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	7.89	mg/L
E. Coli	10	MPN/100mL
Fecal Coliform	10	col/100mL
Total Coliform	560	MPN/100mL
Ammonia-N	0.0647J	mg/L
Nitrate-N	0.0374J	mg/L
Total Kjeldahl Nitrogen	1.64	mg/L
Total Phosphorus	0.208	mg/L
Total Suspended Solids	5.74	mg/L

Waters Department

Client Sample ID: **SW12**
 Lab Sample ID: 1181780006
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	2.73	mg/L
E. Coli	18	MPN/100mL
Fecal Coliform	13	col/100mL
Total Coliform	727	MPN/100mL
Ammonia-N	0.0584J	mg/L
Nitrate-N	0.0406J	mg/L
Total Kjeldahl Nitrogen	1.08	mg/L
Total Phosphorus	0.123	mg/L
Total Suspended Solids	17.8	mg/L

Waters Department

Client Sample ID: **SW13**
 Lab Sample ID: 1181780007
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	4.37	mg/L
E. Coli	2	MPN/100mL
Fecal Coliform	1.0	col/100mL
Total Coliform	126	MPN/100mL
Ammonia-N	0.0794J	mg/L
Nitrate-N	0.0418J	mg/L
Total Kjeldahl Nitrogen	0.795J	mg/L
Total Phosphorus	0.0479	mg/L
Total Suspended Solids	3.00	mg/L

Waters Department

Client Sample ID: **SW16**
 Lab Sample ID: 1181780008
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	3.73	mg/L
E. Coli	26	MPN/100mL
Fecal Coliform	11	col/100mL
Total Coliform	488	MPN/100mL
Nitrate-N	0.0396J	mg/L
Total Kjeldahl Nitrogen	1.37	mg/L
Total Phosphorus	0.0989	mg/L
Total Suspended Solids	2.60	mg/L

Waters Department

Detectable Results Summary

Client Sample ID: **SW15**
 Lab Sample ID: 1181780009
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	12	MPN/100mL
Fecal Coliform	6.0	col/100mL
Total Coliform	83	MPN/100mL
Ammonia-N	0.0399J	mg/L
Nitrate-N	0.0470J	mg/L
Total Kjeldahl Nitrogen	0.491J	mg/L
Total Phosphorus	0.0627	mg/L
Total Suspended Solids	1.16	mg/L

Waters Department

Client Sample ID: **TS1**
 Lab Sample ID: 1181780010
Microbiology Laboratory
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Total Coliform	26	MPN/100mL
Ammonia-N	0.187	mg/L
Nitrate-N	4.49	mg/L
Total Kjeldahl Nitrogen	0.684J	mg/L
Total Phosphorus	0.360	mg/L

Client Sample ID: **TS2**
 Lab Sample ID: 1181780011
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	6.14	mg/L
Total Coliform	117	MPN/100mL
Ammonia-N	19.1	mg/L
Nitrate-N	3.17	mg/L
Nitrite-N	0.0404J	mg/L
Total Kjeldahl Nitrogen	30.4	mg/L
Total Phosphorus	11.2	mg/L
Total Suspended Solids	12.5	mg/L

Waters Department

Client Sample ID: **TS3**
 Lab Sample ID: 1181780012
Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	37.6	mg/L
E. Coli	9210	MPN/100mL
Fecal Coliform	3350	col/100mL
Total Coliform	GT2420	MPN/100mL
Ammonia-N	31.3	mg/L
Nitrate-N	0.125	mg/L
Nitrite-N	0.0606J	mg/L
Total Kjeldahl Nitrogen	69.4	mg/L
Total Phosphorus	6.31	mg/L
Total Suspended Solids	46.0	mg/L

Waters Department

Results of SW4

Client Sample ID: **SW4**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780001
 Lab Project ID: 1181780

Collection Date: 04/26/18 08:45
 Received Date: 04/26/18 16:34
 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		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780001-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	7.0	1.00	1.00	col/100mL	1		04/26/18 17:26

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 17:26
 Container ID: 1181780001-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>
E. Coli	14	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	109	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780001-D

Results of SW4

Client Sample ID: **SW4**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780001
 Lab Project ID: 1181780

Collection Date: 04/26/18 08:45
 Received Date: 04/26/18 16:34
 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	1.04 U	2.08	0.646	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780001-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	0.524 J	1.00	0.310	mg/L	1		05/03/18 10:21

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 10:21
 Container ID: 1181780001-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.0363 J	0.100	0.0310	mg/L	1		04/27/18 10:51

Batch Information

Analytical Batch: WDA4252
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 10:51
 Container ID: 1181780001-F

Prep Batch: WXX12288
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 10:00
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0426 J	0.100	0.0250	mg/L	2		04/27/18 18:52
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 18:52

Results of SW4

Client Sample ID: **SW4**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780001
 Lab Project ID: 1181780

Collection Date: 04/26/18 08:45
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 18:52
 Container ID: 1181780001-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	0.0165 J	0.0200	0.00500	mg/L	1		04/30/18 17:13

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 17:13
 Container ID: 1181780001-F

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 14:17
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW6

Client Sample ID: **SW6**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780002
 Lab Project ID: 1181780

Collection Date: 04/26/18 08:55
 Received Date: 04/26/18 16:34
 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	2.24	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780002-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	6.0	1.00	1.00	col/100mL	1		04/26/18 17:26

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 17:26
 Container ID: 1181780002-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>
E. Coli	1	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	51	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780002-D

Results of SW6

Client Sample ID: **SW6**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780002
 Lab Project ID: 1181780

Collection Date: 04/26/18 08:55
 Received Date: 04/26/18 16:34
 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	1.02	1.02	0.316	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780002-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	0.557 J	1.00	0.310	mg/L	1		05/03/18 10:23

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 10:23
 Container ID: 1181780002-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.0942 J	0.100	0.0310	mg/L	1		04/27/18 11:18

Batch Information

Analytical Batch: WDA4252
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 11:18
 Container ID: 1181780002-F

Prep Batch: WXX12288
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 10:00
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0506 J	0.100	0.0250	mg/L	2		04/27/18 18:53
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 18:53

Results of SW6

Client Sample ID: **SW6**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780002
 Lab Project ID: 1181780

Collection Date: 04/26/18 08:55
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 18:53
 Container ID: 1181780002-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	0.0161 J	0.0200	0.00500	mg/L	1		04/30/18 17:19

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 17:19
 Container ID: 1181780002-F

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 14:17
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW10

Client Sample ID: **SW10**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780003
 Lab Project ID: 1181780

Collection Date: 04/26/18 09:30
 Received Date: 04/26/18 16:34
 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	3.10	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780003-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		04/26/18 17:26

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 17:26
 Container ID: 1181780003-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>
E. Coli	2	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	46	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780003-D

Results of SW10

Client Sample ID: **SW10**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780003
 Lab Project ID: 1181780

Collection Date: 04/26/18 09:30
 Received Date: 04/26/18 16:34
 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	9.00	2.00	0.620	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780003-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	0.743 J	1.00	0.310	mg/L	1		05/03/18 10:24

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 10:24
 Container ID: 1181780003-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.191	0.100	0.0310	mg/L	1		04/27/18 11:19

Batch Information

Analytical Batch: WDA4252
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 11:19
 Container ID: 1181780003-F

Prep Batch: WXX12288
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 10:00
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0466 J	0.100	0.0250	mg/L	2		04/27/18 18:55
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 18:55

Results of SW10

Client Sample ID: **SW10**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780003
 Lab Project ID: 1181780

Collection Date: 04/26/18 09:30
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 18:55
 Container ID: 1181780003-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	0.0379	0.0200	0.00500	mg/L	1		04/30/18 17:22

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 17:22
 Container ID: 1181780003-F

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 14:17
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW9

Client Sample ID: **SW9**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780004
 Lab Project ID: 1181780

Collection Date: 04/26/18 09:47
 Received Date: 04/26/18 16:34
 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	6.07	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780004-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	92	1.00	1.00	col/100mL	1		04/26/18 17:43

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 17:43
 Container ID: 1181780004-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>
E. Coli	118	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	157	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780004-D

Results of SW9

Client Sample ID: **SW9**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780004
 Lab Project ID: 1181780

Collection Date: 04/26/18 09:47
 Received Date: 04/26/18 16:34
 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	14.4	2.00	0.620	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780004-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	0.603 J	1.00	0.310	mg/L	1		05/03/18 10:25

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 10:25
 Container ID: 1181780004-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.107	0.100	0.0310	mg/L	1		04/27/18 11:21

Batch Information

Analytical Batch: WDA4252
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 11:21
 Container ID: 1181780004-F

Prep Batch: WXX12288
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 10:00
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0388 J	0.100	0.0250	mg/L	2		04/27/18 18:57
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 18:57

Results of SW9

Client Sample ID: **SW9**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780004
 Lab Project ID: 1181780

Collection Date: 04/26/18 09:47
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 18:57
 Container ID: 1181780004-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	0.0279	0.0200	0.00500	mg/L	1		04/30/18 17:23

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 17:23
 Container ID: 1181780004-F

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 14:17
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW8

Client Sample ID: **SW8**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780005
 Lab Project ID: 1181780

Collection Date: 04/26/18 10:11
 Received Date: 04/26/18 16:34
 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	7.89	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780005-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	10	1.00	1.00	col/100mL	1		04/26/18 17:43

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 17:43
 Container ID: 1181780005-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>
E. Coli	10	10	10	MPN/100r	10		04/26/18 19:15
Total Coliform	560	10	10	MPN/100r	10		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780005-D

Results of SW8

Client Sample ID: **SW8**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780005
 Lab Project ID: 1181780

Collection Date: 04/26/18 10:11
 Received Date: 04/26/18 16:34
 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	5.74	1.06	0.330	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780005-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	1.64	1.00	0.310	mg/L	1		05/03/18 10:27

Batch Information

Analytical Batch: WDA4262	Prep Batch: WXX12300
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 05/02/18 11:26
Analytical Date/Time: 05/03/18 10:27	Prep Initial Wt./Vol.: 25 mL
Container ID: 1181780005-F	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>
Ammonia-N	0.0647 J	0.100	0.0310	mg/L	1		04/27/18 12:02

Batch Information

Analytical Batch: WDA4253	Prep Batch: WXX12289
Analytical Method: SM21 4500-NH3 G	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 04/27/18 11:10
Analytical Date/Time: 04/27/18 12:02	Prep Initial Wt./Vol.: 6 mL
Container ID: 1181780005-F	Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0374 J	0.100	0.0250	mg/L	2		04/27/18 18:59
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 18:59

Results of SW8

Client Sample ID: **SW8**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780005
 Lab Project ID: 1181780

Collection Date: 04/26/18 10:11
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 18:59
 Container ID: 1181780005-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	0.208	0.0200	0.00500	mg/L	1		04/30/18 16:25

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 16:25
 Container ID: 1181780005-F

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 13:10
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW12

Client Sample ID: **SW12**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780006
 Lab Project ID: 1181780

Collection Date: 04/26/18 11:21
 Received Date: 04/26/18 16:34
 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	2.73	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780006-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		04/26/18 17:43

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 17:43
 Container ID: 1181780006-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>
E. Coli	18	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	727	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780006-D

Results of SW12

Client Sample ID: **SW12**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780006
 Lab Project ID: 1181780

Collection Date: 04/26/18 11:21
 Received Date: 04/26/18 16:34
 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	17.8	2.00	0.620	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780006-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	1.08	1.00	0.310	mg/L	1		05/03/18 10:28

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 10:28
 Container ID: 1181780006-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.0584 J	0.100	0.0310	mg/L	1		04/27/18 12:09

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 12:09
 Container ID: 1181780006-F

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 11:10
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0406 J	0.100	0.0250	mg/L	2		04/27/18 19:00
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 19:00

Results of SW12

Client Sample ID: **SW12**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780006
 Lab Project ID: 1181780

Collection Date: 04/26/18 11:21
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 19:00
 Container ID: 1181780006-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	0.00500	mg/L	1		04/30/18 17:24

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 17:24
 Container ID: 1181780006-F

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 14:17
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW13

Client Sample ID: **SW13**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780007
 Lab Project ID: 1181780

Collection Date: 04/26/18 11:42
 Received Date: 04/26/18 16:34
 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	4.37	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780007-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	1.0	1.00	1.00	col/100mL	1		04/26/18 18:25

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 18:25
 Container ID: 1181780007-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>
E. Coli	2	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	126	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780007-D

Results of SW13

Client Sample ID: **SW13**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780007
 Lab Project ID: 1181780

Collection Date: 04/26/18 11:42
 Received Date: 04/26/18 16:34
 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	3.00	2.00	0.620	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780007-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	0.795 J	1.00	0.310	mg/L	1		05/03/18 11:14

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 11:14
 Container ID: 1181780007-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.0794 J	0.100	0.0310	mg/L	1		04/27/18 12:10

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 12:10
 Container ID: 1181780007-F

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 11:10
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0418 J	0.100	0.0250	mg/L	2		04/27/18 19:02
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 19:02

Results of SW13

Client Sample ID: **SW13**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780007
 Lab Project ID: 1181780

Collection Date: 04/26/18 11:42
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 19:02
 Container ID: 1181780007-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	0.0479	0.0200	0.00500	mg/L	1		04/30/18 17:25

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 17:25
 Container ID: 1181780007-F

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 14:17
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW16

Client Sample ID: **SW16**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780008
 Lab Project ID: 1181780

Collection Date: 04/26/18 12:00
 Received Date: 04/26/18 16:34
 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	3.73	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780008-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	11	1.00	1.00	col/100mL	1		04/26/18 18:25

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 18:25
 Container ID: 1181780008-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>
E. Coli	26	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	488	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780008-D

Results of SW16

Client Sample ID: **SW16**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780008
 Lab Project ID: 1181780

Collection Date: 04/26/18 12:00
 Received Date: 04/26/18 16:34
 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	2.60	2.00	0.620	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780008-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	1.37	1.00	0.310	mg/L	1		05/03/18 11:16

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 11:16
 Container ID: 1181780008-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.0500 U	0.100	0.0310	mg/L	1		04/27/18 12:12

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 12:12
 Container ID: 1181780008-F

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 11:10
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0396 J	0.100	0.0250	mg/L	2		04/27/18 19:04
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 19:04

Results of SW16

Client Sample ID: **SW16**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780008
 Lab Project ID: 1181780

Collection Date: 04/26/18 12:00
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 19:04
 Container ID: 1181780008-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	0.0989	0.0200	0.00500	mg/L	1		04/30/18 16:26

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 16:26
 Container ID: 1181780008-F

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 13:10
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of SW15

Client Sample ID: **SW15**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780009
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:07
 Received Date: 04/26/18 16:34
 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		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780009-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	6.0	1.00	1.00	col/100mL	1		04/26/18 18:25

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 18:25
 Container ID: 1181780009-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>
E. Coli	12	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	83	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780009-D

Results of SW15

Client Sample ID: **SW15**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780009
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:07
 Received Date: 04/26/18 16:34
 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	1.16	1.05	0.326	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780009-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	0.491 J	1.00	0.310	mg/L	1		05/03/18 11:17

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 11:17
 Container ID: 1181780009-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.0399 J	0.100	0.0310	mg/L	1		04/27/18 12:17

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 12:17
 Container ID: 1181780009-F

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 11:10
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.0470 J	0.100	0.0250	mg/L	2		04/27/18 19:14
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 19:14

Results of SW15

Client Sample ID: **SW15**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780009
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:07
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 19:14
 Container ID: 1181780009-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	0.0627	0.0200	0.00500	mg/L	1		04/30/18 16:26

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 16:26
 Container ID: 1181780009-F

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 13:10
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of TS1

Client Sample ID: **TS1**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780010
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:27
 Received Date: 04/26/18 16:34
 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		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780010-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		04/26/18 18:25

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 18:25
 Container ID: 1181780010-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>
E. Coli	1 U	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	26	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780010-D

Results of TS1

Client Sample ID: **TS1**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780010
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:27
 Received Date: 04/26/18 16:34
 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	1.09 U	2.17	0.674	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780010-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	0.684 J	1.00	0.310	mg/L	1		05/03/18 11:18

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 11:18
 Container ID: 1181780010-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	0.187	0.100	0.0310	mg/L	1		04/27/18 12:04

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 12:04
 Container ID: 1181780010-F

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 11:10
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	4.49	0.100	0.0250	mg/L	2		04/27/18 19:16
Nitrite-N	0.0500 U	0.100	0.0250	mg/L	2		04/27/18 19:16

Results of TS1

Client Sample ID: **TS1**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780010
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:27
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 19:16
 Container ID: 1181780010-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	0.360	0.0200	0.00500	mg/L	1		04/30/18 16:29

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 16:29
 Container ID: 1181780010-F

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 13:10
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Results of TS2

Client Sample ID: **TS2**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780011
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:51
 Received Date: 04/26/18 16:34
 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	6.14	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780011-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		04/26/18 18:25

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 18:25
 Container ID: 1181780011-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>
E. Coli	1 U	1	1	MPN/100r	1		04/26/18 19:15
Total Coliform	117	1	1	MPN/100r	1		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780011-D

Results of TS2

Client Sample ID: **TS2**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780011
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:51
 Received Date: 04/26/18 16:34
 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	12.5	1.08	0.333	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780011-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	30.4	10.0	3.10	mg/L	10		05/03/18 11:19

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 11:19
 Container ID: 1181780011-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	19.1	2.00	0.620	mg/L	1		04/27/18 13:00

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 13:00
 Container ID: 1181780011-F

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 11:10
 Prep Initial Wt./Vol.: 0.3 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	3.17	0.100	0.0250	mg/L	2		04/27/18 19:18
Nitrite-N	0.0404 J	0.100	0.0250	mg/L	2		04/27/18 19:18

Results of TS2

Client Sample ID: **TS2**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780011
 Lab Project ID: 1181780

Collection Date: 04/26/18 13:51
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 19:18
 Container ID: 1181780011-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	11.2	2.00	0.500	mg/L	1		04/30/18 16:32

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 16:32
 Container ID: 1181780011-F

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 13:10
 Prep Initial Wt./Vol.: 0.25 mL
 Prep Extract Vol: 25 mL

Results of TS3

Client Sample ID: **TS3**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780012
 Lab Project ID: 1181780

Collection Date: 04/26/18 14:30
 Received Date: 04/26/18 16:34
 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	37.6	2.00	2.00	mg/L	1		04/27/18 16:11

Batch Information

Analytical Batch: BOD6026
 Analytical Method: SM21 5210B
 Analyst: A.L
 Analytical Date/Time: 04/27/18 16:11
 Container ID: 1181780012-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	3350	10.0	10.0	col/100mL	1		04/26/18 18:25

Batch Information

Analytical Batch: BTF16505
 Analytical Method: SM21 9222D
 Analyst: DSH
 Analytical Date/Time: 04/26/18 18:25
 Container ID: 1181780012-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>
E. Coli	9210	10	10	MPN/100r	10		04/26/18 19:15
Total Coliform	>2420	10	10	MPN/100r	10		04/26/18 19:15

Batch Information

Analytical Batch: BTF16507
 Analytical Method: SM21 9223B
 Analyst: K.W
 Analytical Date/Time: 04/26/18 19:15
 Container ID: 1181780012-D

Results of TS3

Client Sample ID: **TS3**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780012
 Lab Project ID: 1181780

Collection Date: 04/26/18 14:30
 Received Date: 04/26/18 16:34
 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	46.0	10.0	3.10	mg/L	1		05/02/18 13:50

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Analyst: EWW
 Analytical Date/Time: 05/02/18 13:50
 Container ID: 1181780012-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	69.4	10.0	3.10	mg/L	10		05/03/18 11:21

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 05/03/18 11:21
 Container ID: 1181780012-F

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 05/02/18 11:26
 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>
Ammonia-N	31.3	2.00	0.620	mg/L	1		04/27/18 13:02

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 04/27/18 13:02
 Container ID: 1181780012-F

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/18 11:10
 Prep Initial Wt./Vol.: 0.3 mL
 Prep Extract Vol: 6 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Nitrate-N	0.125	0.100	0.0250	mg/L	2		04/27/18 19:20
Nitrite-N	0.0606 J	0.100	0.0250	mg/L	2		04/27/18 19:20

Results of TS3

Client Sample ID: **TS3**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1181780012
 Lab Project ID: 1181780

Collection Date: 04/26/18 14:30
 Received Date: 04/26/18 16:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Analyst: AYC
 Analytical Date/Time: 04/27/18 19:20
 Container ID: 1181780012-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	6.31	2.00	0.500	mg/L	1		04/30/18 16:32

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Analyst: DMM
 Analytical Date/Time: 04/30/18 16:32
 Container ID: 1181780012-F

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/18 13:10
 Prep Initial Wt./Vol.: 0.25 mL
 Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1778967 [BOD/6026]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1443574

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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: BOD6026

Analytical Method: SM21 5210B

Instrument:

Analyst: A.L

Analytical Date/Time: 4/27/2018 4:11:00PM

Print Date: 05/15/2018 2:23:33PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [BOD6026]

Blank Spike Lab ID: 1443575

Date Analyzed: 04/27/2018 16:11

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 5210B

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Biochemical Oxygen Demand	198	213	108	(84.6-115.4

Batch Information

Analytical Batch: **BOD6026**
 Analytical Method: **SM21 5210B**
 Instrument:
 Analyst: **A.L**

Print Date: 05/15/2018 2:23:35PM

Method Blank

Blank ID: MB for HBN 1778900 [BTF/16505]
 Blank Lab ID: 1443322

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009,
 1181780010, 1181780011, 1181780012

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: BTF16505
 Analytical Method: SM21 9222D
 Instrument:
 Analyst: DSH
 Analytical Date/Time: 4/26/2018 5:26:00PM

Print Date: 05/15/2018 2:23:37PM

Method Blank

Blank ID: MB for HBN 1778902 [BTF/16507]
 Blank Lab ID: 1443325

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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: BTF16507
 Analytical Method: SM21 9223B
 Instrument:
 Analyst: K.W
 Analytical Date/Time: 4/26/2018 7:15:00PM

Print Date: 05/15/2018 2:23:39PM

Method Blank

Blank ID: MB for HBN 1779093 [STS/5861]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1444172

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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: STS5861

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Analytical Date/Time: 5/2/2018 1:50:42PM

Print Date: 05/15/2018 2:23:42PM

Duplicate Sample Summary

Original Sample ID: 1181780001

Analysis Date: 05/02/2018 13:50

Duplicate Sample ID: 1444175

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010

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	1.04J	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS5861

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 05/15/2018 2:23:43PM

Duplicate Sample Summary

Original Sample ID: 1181780010

Analysis Date: 05/02/2018 13:50

Duplicate Sample ID: 1444176

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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	1.09U	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS5861

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 05/15/2018 2:23:43PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [STS5861]
 Blank Spike Lab ID: 1444173
 Date Analyzed: 05/02/2018 13:50

Spike Duplicate ID: LCSD for HBN 1181780 [STS5861]
 Spike Duplicate Lab ID: 1444174
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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	47.9	96	50	47.7	95	(75-125)	0.42	(< 5)

Batch Information

Analytical Batch: STS5861
 Analytical Method: SM21 2540D
 Instrument:
 Analyst: EWW

Print Date: 05/15/2018 2:23:44PM

Method Blank

Blank ID: MB for HBN 1779015 (WFI/2676)

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1443820

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.0544J	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0544J	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2676

Analytical Method: SM21 4500NO3-F

Instrument: Astoria segmented flow

Analyst: AYC

Analytical Date/Time: 4/27/2018 6:46:51PM

Print Date: 05/15/2018 2:23:45PM

Method Blank

Blank ID: MB for HBN 1779015 (WFI/2676)
 Blank Lab ID: 1443822

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 4500NO3-F

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.0534J	0.100	0.0250	mg/L
Nitrite-N	0.0500U	0.100	0.0250	mg/L
Total Nitrate/Nitrite-N	0.0534J	0.100	0.0250	mg/L

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 4/27/2018 7:23:36PM

Print Date: 05/15/2018 2:23:45PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [WFI2676]

Blank Spike Lab ID: 1443806

Date Analyzed: 04/27/2018 18:45

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 4500NO3-F

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	2.5	2.54	102	(70-130)
Nitrite-N	2.5	2.49	100	(90-110)
Total Nitrate/Nitrite-N	5	5.03	101	(90-110)

Batch Information

Analytical Batch: **WFI2676**

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

Instrument: **Astoria segmented flow**

Analyst: **AYC**

Print Date: 05/15/2018 2:23:47PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [WFI2676]

Blank Spike Lab ID: 1443821

Date Analyzed: 04/27/2018 19:21

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 4500NO3-F

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	2.5	2.68	107	(70-130)
Nitrite-N	2.5	2.57	103	(90-110)
Total Nitrate/Nitrite-N	5	5.26	105	(90-110)

Batch Information

Analytical Batch: **WFI2676**

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

Instrument: **Astoria segmented flow**

Analyst: **AYC**

Print Date: 05/15/2018 2:23:47PM

Matrix Spike Summary

Original Sample ID: 1181768002
 MS Sample ID: 1443802 MS
 MSD Sample ID: 1443803 MSD

Analysis Date: 04/27/2018 19:39
 Analysis Date: 04/27/2018 19:41
 Analysis Date: 04/27/2018 19:42
 Matrix: Drinking Water

QC for Samples: 1181780009, 1181780010, 1181780011, 1181780012

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	0.100U	5.00	4.48	90 *	5.00	4.63	93	90-110	3.30	(< 25)

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 4/27/2018 7:41:06PM

Matrix Spike Summary

Original Sample ID: 1181780008
 MS Sample ID: 1443804 MS
 MSD Sample ID: 1443805 MSD

Analysis Date: 04/27/2018 19:04
 Analysis Date: 04/27/2018 19:06
 Analysis Date: 04/27/2018 19:07
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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 (%)			
Nitrate-N	0.0396J	2.50	2.64	104	2.50	2.64	104	70-130	0.02	(< 25)
Nitrite-N	0.0500U	2.50	2.58	103	2.50	2.64	106	90-110	2.10	(< 25)

Batch Information

Analytical Batch: WFI2676
 Analytical Method: SM21 4500NO3-F
 Instrument: Astoria segmented flow
 Analyst: AYC
 Analytical Date/Time: 4/27/2018 7:06:06PM

Method Blank

Blank ID: MB for HBN 1778937 [WXX/12288]
 Blank Lab ID: 1443455

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1181780001, 1181780002, 1181780003, 1181780004

Results by SM21 4500-NH3 G

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Ammonia-N	0.0351J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4252
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/27/2018 10:46:20AM

Prep Batch: WXX12288
 Prep Method: METHOD
 Prep Date/Time: 4/27/2018 10:00:00AM
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

Print Date: 05/15/2018 2:23:49PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [WXX12288]
 Blank Spike Lab ID: 1443456
 Date Analyzed: 04/27/2018 10:48

Spike Duplicate ID: LCSD for HBN 1181780 [WXX12288]
 Spike Duplicate Lab ID: 1443457
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004

Results by SM21 4500-NH3 G

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Ammonia-N	1	0.905	91	1	0.954	95	(75-125)	5.30	(< 25)

Batch Information

Analytical Batch: **WDA4252**
 Analytical Method: **SM21 4500-NH3 G**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12288**
 Prep Method: **METHOD**
 Prep Date/Time: **04/27/2018 10:00**
 Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
 Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 05/15/2018 2:23:51PM

Matrix Spike Summary

Original Sample ID: 1181780001
 MS Sample ID: 1443458 MS
 MSD Sample ID: 1443459 MSD

Analysis Date: 04/27/2018 10:51
 Analysis Date: 04/27/2018 10:53
 Analysis Date: 04/27/2018 10:54
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004

Results by SM21 4500-NH3 G

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Ammonia-N	0.0363J	1.00	.872	84	1.00	0.787	75	75-125	10.20	(< 25)

Batch Information

Analytical Batch: WDA4252
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/27/2018 10:53:04AM

Prep Batch: WXX12288
 Prep Method: Ammonia by SM21 4500F prep (W)
 Prep Date/Time: 4/27/2018 10:00:00AM
 Prep Initial Wt./Vol.: 6.00mL
 Prep Extract Vol: 6.00mL

Method Blank

Blank ID: MB for HBN 1778946 [WXX/12289]
 Blank Lab ID: 1443487

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 4500-NH3 G

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Ammonia-N	0.0500U	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/27/2018 11:57:36AM

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 4/27/2018 11:10:00AM
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

Print Date: 05/15/2018 2:23:53PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [WXX12289]
 Blank Spike Lab ID: 1443488
 Date Analyzed: 04/27/2018 11:59

Spike Duplicate ID: LCSD for HBN 1181780 [WXX12289]
 Spike Duplicate Lab ID: 1443489
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 4500-NH3 G

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Ammonia-N	1	0.982	98	1	0.957	96	(75-125)	2.60	(< 25)

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM

Prep Batch: WXX12289
 Prep Method: METHOD
 Prep Date/Time: 04/27/2018 11:10
 Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
 Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 05/15/2018 2:23:55PM

Matrix Spike Summary

Original Sample ID: 1181780010
 MS Sample ID: 1443490 MS
 MSD Sample ID: 1443491 MSD

Analysis Date: 04/27/2018 12:04
 Analysis Date: 04/27/2018 12:05
 Analysis Date: 04/27/2018 12:07
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

Results by SM21 4500-NH3 G

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Ammonia-N	0.187	1.00	1.06	88	1.00	1.02	84	75-125	3.80	(< 25)

Batch Information

Analytical Batch: WDA4253
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/27/2018 12:05:59PM

Prep Batch: WXX12289
 Prep Method: Ammonia by SM21 4500F prep (W)
 Prep Date/Time: 4/27/2018 11:10:00AM
 Prep Initial Wt./Vol.: 6.00mL
 Prep Extract Vol: 6.00mL

Method Blank

Blank ID: MB for HBN 1779026 [WXX/12291]
 Blank Lab ID: 1443854

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1181780005, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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	0.00500	mg/L

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/30/2018 4:06:50PM

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 4/30/2018 1:10:00PM
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Print Date: 05/15/2018 2:23:57PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [WXX12291]
 Blank Spike Lab ID: 1443855
 Date Analyzed: 04/30/2018 16:07

Spike Duplicate ID: LCSD for HBN 1181780 [WXX12291]
 Spike Duplicate Lab ID: 1443856
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780005, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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	103	0.2	0.207	103	(85-115)	0.05	(< 25)

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM

Prep Batch: WXX12291
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 04/30/2018 13:10
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Print Date: 05/15/2018 2:23:59PM

Matrix Spike Summary

Original Sample ID: 1181726005
 MS Sample ID: 1443857 MS
 MSD Sample ID: 1443858 MSD

Analysis Date: 04/30/2018 16:09
 Analysis Date: 04/30/2018 16:10
 Analysis Date: 04/30/2018 16:11
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780005, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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	1.46	5.00	6.93	110	5.00	6.87	108	75-125	0.91	(< 25)

Batch Information

Analytical Batch: WDA4254
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/30/2018 4:10:46PM

Prep Batch: WXX12291
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 4/30/2018 1:10:00PM
 Prep Initial Wt./Vol.: 1.00mL
 Prep Extract Vol: 25.00mL

Print Date: 05/15/2018 2:24:00PM

Method Blank

Blank ID: MB for HBN 1779030 [WXX/12292]
 Blank Lab ID: 1443873

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1181780001, 1181780002, 1181780003, 1181780004, 1181780006, 1181780007

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	0.00500	mg/L

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/30/2018 5:10:19PM

Prep Batch: WXX12292
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 4/30/2018 2:17:00PM
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Print Date: 05/15/2018 2:24:02PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [WXX12292]
 Blank Spike Lab ID: 1443874
 Date Analyzed: 04/30/2018 17:11

Spike Duplicate ID: LCSD for HBN 1181780 [WXX12292]
 Spike Duplicate Lab ID: 1443875
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780006, 1181780007

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	0.208	104	0.2	0.210	105	(85-115)	0.91	(< 25)

Batch Information

Analytical Batch: **WDA4255**
 Analytical Method: **SM21 4500P-B,E**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12292**
 Prep Method: **SM21 4500P-B,E**
 Prep Date/Time: **04/30/2018 14:17**
 Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Print Date: 05/15/2018 2:24:04PM

Matrix Spike Summary

Original Sample ID: 1181780001
 MS Sample ID: 1443876 MS
 MSD Sample ID: 1443877 MSD

Analysis Date: 04/30/2018 17:13
 Analysis Date: 04/30/2018 17:14
 Analysis Date: 04/30/2018 17:15
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780006, 1181780007

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	0.0165J	0.200	.228	106	0.200	0.223	103	75-125	2.10	(< 25)

Batch Information

Analytical Batch: WDA4255
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 4/30/2018 5:14:13PM

Prep Batch: WXX12292
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 4/30/2018 2:17:00PM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Print Date: 05/15/2018 2:24:05PM

Method Blank

Blank ID: MB for HBN 1779164 [WXX/12300]
 Blank Lab ID: 1444508

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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: WDA4262
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 5/3/2018 10:00:59AM

Prep Batch: WXX12300
 Prep Method: METHOD
 Prep Date/Time: 5/2/2018 11:26:00AM
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Print Date: 05/15/2018 2:24:06PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1181780 [WXX12300]
 Blank Spike Lab ID: 1444509
 Date Analyzed: 05/03/2018 10:02

Spike Duplicate ID: LCSD for HBN 1181780 [WXX12300]
 Spike Duplicate Lab ID: 1444510
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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	3.51	88	4	3.64	91	(75-125)	3.60	(< 25)

Batch Information

Analytical Batch: **WDA4262**
 Analytical Method: **SM21 4500-N D**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12300**
 Prep Method: **METHOD**
 Prep Date/Time: **05/02/2018 11:26**
 Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Print Date: 05/15/2018 2:24:07PM

Matrix Spike Summary

Original Sample ID: 1188801005
 MS Sample ID: 1444511 MS
 MSD Sample ID: 1444512 MSD

Analysis Date: 05/03/2018 10:07
 Analysis Date: 05/03/2018 10:08
 Analysis Date: 05/03/2018 10:10
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1181780001, 1181780002, 1181780003, 1181780004, 1181780005, 1181780006, 1181780007, 1181780008, 1181780009, 1181780010, 1181780011, 1181780012

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	1.00U	4.00	3.84	96	4.00	3.14	78	75-125	20.20	(< 25)

Batch Information

Analytical Batch: WDA4262
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 5/3/2018 10:08:50AM

Prep Batch: WXX12300
 Prep Method: Distillation TKN by Phenate (W)
 Prep Date/Time: 5/2/2018 11:26:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Print Date: 05/15/2018 2:24:08PM



SGS North America Inc.
CHAIN OF CUSTODY RECORD

1181780
Corrected Report - Revision 1

CLIENT: Stantec				Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.										Page 1 of 2																																																																																																																																																																	
CONTACT: Jake Alward PHONE #: 343-5202				Section 3		Preservative																																																																																																																																																																									
PROJECT NAME: Wasilla WWTP				# CONTAINERS		<table border="1"> <tr> <td colspan="2">Pres: Type:</td> <td colspan="2">H₂SO₄</td> <td colspan="2">H₂SO₄</td> <td colspan="2">H₂SO₄</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>Comp</td> <td>Grab</td> <td>MI</td> <td>(Multi-incremental)</td> <td>BOD</td> <td>TSS</td> <td>Fecal Coliform</td> <td>Total Coliform - Quantitray</td> <td>Nitrate/Nitrite</td> <td>Ammonia/TKN/T-Phos</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>										Pres: Type:		H ₂ SO ₄		H ₂ SO ₄		H ₂ SO ₄										Comp	Grab	MI	(Multi-incremental)	BOD	TSS	Fecal Coliform	Total Coliform - Quantitray	Nitrate/Nitrite	Ammonia/TKN/T-Phos																																																																																																																																						
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REPORTS TO: E-MAIL: jake.alward@stantec.com																																																																																																																																																																															
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Relinquished By: (1)				Date: 4/26/18	Time: 16:34	Received By:				Section 4 DOD Project? Yes No		Data Deliverable Requirements:																																																																																																																																																																			
Relinquished By: (2)				Date:	Time:	Received By:				Cooler ID: _____																																																																																																																																																																					
Relinquished By: (3)				Date:	Time:	Received By:				Requested Turnaround Time and/or Special Instructions:																																																																																																																																																																					
Relinquished By: (4)				Date: 04/26/18	Time: 16:34	Received For Laboratory By:				Temp Blank °C: 1: 4.9 D42 2: 3.5 D40 3: 2.8 D24		Chain of Custody Seal: (Circle) INTACT BROKEN <u>ABSENT</u>																																																																																																																																																																			
Delivery Method: Hand Delivery <input checked="" type="checkbox"/>										Commerical Delivery <input type="checkbox"/>																																																																																																																																																																					



SGS North America Inc. CHAIN OF CUSTODY RECORD

1181780 Collected Report Revision 1



CLIENT: Stantec		Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.						Page <u>2</u> of <u>2</u>																											
CONTACT: Jake		PHONE #: 343-5202		Section 3		Preservative																													
Section 1	PROJECT NAME: Wasilla WWT	PROJECT/PWSID/PERMIT#:	CONTAINERS	Pres: Type:	<table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																														
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Section 2	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	BOD	TSS	Fecal Coliform	Total Coliform - Quantitray	Nitrate/Nitrite	Ammonia/TKN/T-Phos	REMARKS/LOC ID																							
	AF	TS1	4/26/18	1327		1	1	1	1	1	1																								
	AF	TS2	↓	1351		1	1	1	1	1	1																								
	AF	TS3	↓	1430		1	1	1	1	1	1																								
Section 5	Relinquished By: (1)	Date	Time	Received By:	Section 4 DOD Project? Yes No		Data Deliverable Requirements:																												
	Relinquished By: (2)	Date	Time	Received By:	Cooler ID: _____		Requested Turnaround Time and/or Special Instructions:																												
	Relinquished By: (3)	Date	Time	Received By:	Temp Blank °C: _____		Chain of Custody Seal: (Circle)																												
	Relinquished By: (4)	Date	Time	Received For Laboratory By:	or Ambient []		INTACT BROKEN <u>ABSENT</u>																												
					Delivery Method: Hand Delivery <input checked="" type="checkbox"/> Commercial Delivery []																														

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



SGS Workorder #:

1181780



1 1 8 1 7 8 0

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 @ 4.9 °C Therm. ID: D42
	<input checked="" type="checkbox"/> yes	Cooler ID: 2 @ 3.5 °C Therm. ID: D40
	<input checked="" type="checkbox"/> yes	Cooler ID: 3 @ 2.8 °C Therm. ID: D24
	<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):		
Samples 1 and 2 Fecal Coli samples passed their hold times at the lab prior to being analyzed. We will proceed with the samples for now.		

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>
1181780001-A	No Preservative Required	OK	1181780008-A	No Preservative Required	OK
1181780001-B	No Preservative Required	OK	1181780008-B	No Preservative Required	OK
1181780001-C	Na2S2O3 for Chlorine Redu	OK	1181780008-C	Na2S2O3 for Chlorine Redu	OK
1181780001-D	Na2S2O3 for Chlorine Redu	OK	1181780008-D	Na2S2O3 for Chlorine Redu	OK
1181780001-E	No Preservative Required	OK	1181780008-E	No Preservative Required	OK
1181780001-F	H2SO4 to pH < 2	OK	1181780008-F	H2SO4 to pH < 2	OK
1181780002-A	No Preservative Required	OK	1181780009-A	No Preservative Required	OK
1181780002-B	No Preservative Required	OK	1181780009-B	No Preservative Required	OK
1181780002-C	Na2S2O3 for Chlorine Redu	OK	1181780009-C	Na2S2O3 for Chlorine Redu	OK
1181780002-D	Na2S2O3 for Chlorine Redu	OK	1181780009-D	Na2S2O3 for Chlorine Redu	OK
1181780002-E	No Preservative Required	OK	1181780009-E	No Preservative Required	OK
1181780002-F	H2SO4 to pH < 2	OK	1181780009-F	H2SO4 to pH < 2	OK
1181780003-A	No Preservative Required	OK	1181780010-A	No Preservative Required	OK
1181780003-B	No Preservative Required	OK	1181780010-B	No Preservative Required	OK
1181780003-C	Na2S2O3 for Chlorine Redu	OK	1181780010-C	Na2S2O3 for Chlorine Redu	OK
1181780003-D	Na2S2O3 for Chlorine Redu	OK	1181780010-D	Na2S2O3 for Chlorine Redu	OK
1181780003-E	No Preservative Required	OK	1181780010-E	No Preservative Required	OK
1181780003-F	H2SO4 to pH < 2	OK	1181780010-F	H2SO4 to pH < 2	OK
1181780004-A	No Preservative Required	OK	1181780011-A	No Preservative Required	OK
1181780004-B	No Preservative Required	OK	1181780011-B	No Preservative Required	OK
1181780004-C	Na2S2O3 for Chlorine Redu	OK	1181780011-C	Na2S2O3 for Chlorine Redu	OK
1181780004-D	Na2S2O3 for Chlorine Redu	OK	1181780011-D	Na2S2O3 for Chlorine Redu	OK
1181780004-E	No Preservative Required	OK	1181780011-E	No Preservative Required	OK
1181780004-F	H2SO4 to pH < 2	OK	1181780011-F	H2SO4 to pH < 2	OK
1181780005-A	No Preservative Required	OK	1181780012-A	No Preservative Required	OK
1181780005-B	No Preservative Required	OK	1181780012-B	No Preservative Required	OK
1181780005-C	Na2S2O3 for Chlorine Redu	OK	1181780012-C	Na2S2O3 for Chlorine Redu	OK
1181780005-D	Na2S2O3 for Chlorine Redu	OK	1181780012-D	Na2S2O3 for Chlorine Redu	OK
1181780005-E	No Preservative Required	OK	1181780012-E	No Preservative Required	OK
1181780005-F	H2SO4 to pH < 2	OK	1181780012-F	H2SO4 to pH < 2	OK
1181780006-A	No Preservative Required	OK			
1181780006-B	No Preservative Required	OK			
1181780006-C	Na2S2O3 for Chlorine Redu	OK			
1181780006-D	Na2S2O3 for Chlorine Redu	OK			
1181780006-E	No Preservative Required	OK			
1181780006-F	H2SO4 to pH < 2	OK			
1181780007-A	No Preservative Required	OK			
1181780007-B	No Preservative Required	OK			
1181780007-C	Na2S2O3 for Chlorine Redu	OK			
1181780007-D	Na2S2O3 for Chlorine Redu	OK			
1181780007-E	No Preservative Required	OK			
1181780007-F	H2SO4 to pH < 2	OK			

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.