

Laboratory Report of Analysis

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

Report Number: **1187133**

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: **1187133**

Project Name/Site: **Wasilla WWTP**

Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

MW-10 (1187133001) PS

9222D- Fecal coliform sample received and analysed past hold time. ADEC allows 8 hours from the time of collection to analysis.

1186999004MS (1492096) MS

300.0 - Anions - MS recovery for Sulfate is outside of QC criteria. Refer to LCS for accuracy requirements.

1186999004MSD (1492097) MSD

300.0 - Anions - MSD recovery for Sulfate is outside of QC criteria. Refer to LCS for accuracy requirements.

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

Print Date: 01/08/2019 4:10:23PM

Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry (Provisionally Certified as of 12/06/2018 for Uranium by EPA200.8, TDS by SM 2540C and Nitrate by SM 4500-NO3-F) & 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>
MW-10	1187133001	12/18/2018	12/18/2018	Water (Surface, Eff., Ground)
MW-15	1187133002	12/18/2018	12/18/2018	Water (Surface, Eff., Ground)
B-4	1187133003	12/18/2018	12/18/2018	Water (Surface, Eff., Ground)
MW-6	1187133004	12/18/2018	12/18/2018	Water (Surface, Eff., Ground)
B-3	1187133005	12/18/2018	12/18/2018	Water (Surface, Eff., Ground)
SW-5	1187133006	12/18/2018	12/18/2018	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)
EPA 300.0	Ion Chromatographic 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: 01/08/2019 4:10:26PM

Detectable Results Summary

Client Sample ID: **MW-10**
 Lab Sample ID: 1187133001
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.0651J	mg/L
Nitrate-N	0.236	mg/L
Total Nitrate/Nitrite-N	0.271	mg/L

Client Sample ID: **MW-15**
 Lab Sample ID: 1187133002
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.242	mg/L
Total Kjeldahl Nitrogen	0.673J	mg/L

Client Sample ID: **B-4**
 Lab Sample ID: 1187133003
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.0512J	mg/L
Nitrate-N	1.46	mg/L
Total Nitrate/Nitrite-N	1.46	mg/L

Client Sample ID: **MW-6**
 Lab Sample ID: 1187133004
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.119	mg/L
Total Kjeldahl Nitrogen	0.418J	mg/L

Client Sample ID: **B-3**
 Lab Sample ID: 1187133005
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.128	mg/L
Total Kjeldahl Nitrogen	0.523J	mg/L

Client Sample ID: **SW-5**
 Lab Sample ID: 1187133006
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	4.05	mg/L
Total Coliform	31	MPN/100mL
Ammonia-N	0.197	mg/L
Total Kjeldahl Nitrogen	0.800J	mg/L
Total Phosphorus	0.0202	mg/L
Total Suspended Solids	3.47	mg/L

Results of MW-10

Client Sample ID: **MW-10**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133001
 Lab Project ID: 1187133

Collection Date: 12/18/18 10:00
 Received Date: 12/18/18 16:38
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/18/18 18:09

Batch Information

Analytical Batch: BTF17069
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/18/18 18:09
 Container ID: 1187133001-A



Results of MW-10

Client Sample ID: **MW-10**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133001
 Lab Project ID: 1187133

Collection Date: 12/18/18 10:00
 Received Date: 12/18/18 16:38
 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>
Nitrate-N	0.236	0.200	0.0500	mg/L	1		12/18/18 18:02
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/18/18 18:02
Total Nitrate/Nitrite-N	0.271	0.200	0.0500	mg/L	1		12/18/18 18:02

Batch Information

Analytical Batch: WIC5858
 Analytical Method: EPA 300.0
 Analyst: DMM
 Analytical Date/Time: 12/18/18 18:02
 Container ID: 1187133001-C

Prep Batch: WXX12662
 Prep Method: METHOD
 Prep Date/Time: 12/18/18 17:30
 Prep Initial Wt./Vol.: 10 mL
 Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		01/03/19 09:50

Batch Information

Analytical Batch: WDA4482
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 01/03/19 09:50
 Container ID: 1187133001-B

Prep Batch: WXX12679
 Prep Method: METHOD
 Prep Date/Time: 12/27/18 10:20
 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	0.0651 J	0.100	0.0310	mg/L	1		12/20/18 10:27

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 12/20/18 10:27
 Container ID: 1187133001-B

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/18 09:05
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

Results of MW-15

Client Sample ID: **MW-15**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133002
 Lab Project ID: 1187133

Collection Date: 12/18/18 10:40
 Received Date: 12/18/18 16:38
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/18/18 18:09

Batch Information

Analytical Batch: BTF17069
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/18/18 18:09
 Container ID: 1187133002-A



Results of MW-15

Client Sample ID: **MW-15**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133002
 Lab Project ID: 1187133

Collection Date: 12/18/18 10:40
 Received Date: 12/18/18 16:38
 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>
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		12/18/18 18:22
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/18/18 18:22
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/18/18 18:22

Batch Information

Analytical Batch: WIC5858
 Analytical Method: EPA 300.0
 Analyst: DMM
 Analytical Date/Time: 12/18/18 18:22
 Container ID: 1187133002-C

Prep Batch: WXX12662
 Prep Method: METHOD
 Prep Date/Time: 12/18/18 17:30
 Prep Initial Wt./Vol.: 10 mL
 Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.673 J	1.00	0.310	mg/L	1		01/03/19 09:54

Batch Information

Analytical Batch: WDA4482
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 01/03/19 09:54
 Container ID: 1187133002-B

Prep Batch: WXX12679
 Prep Method: METHOD
 Prep Date/Time: 12/27/18 10:20
 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	0.242	0.100	0.0310	mg/L	1		12/20/18 10:32

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 12/20/18 10:32
 Container ID: 1187133002-B

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/18 09:05
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

Results of B-4

Client Sample ID: **B-4**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133003
 Lab Project ID: 1187133

Collection Date: 12/18/18 12:05
 Received Date: 12/18/18 16:38
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/18/18 18:09

Batch Information

Analytical Batch: BTF17069
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/18/18 18:09
 Container ID: 1187133003-A



Results of B-4

Client Sample ID: B-4
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187133003
Lab Project ID: 1187133

Collection Date: 12/18/18 12:05
Received Date: 12/18/18 16:38
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5858
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/18/18 18:40
Container ID: 1187133003-C
Prep Batch: WXX12662
Prep Method: METHOD
Prep Date/Time: 12/18/18 17:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 09:58
Container ID: 1187133003-B
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Batch Information

Analytical Batch: WDA4477
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 12/20/18 10:33
Container ID: 1187133003-B
Prep Batch: WXX12665
Prep Method: METHOD
Prep Date/Time: 12/20/18 09:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of MW-6

Client Sample ID: **MW-6**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133004
 Lab Project ID: 1187133

Collection Date: 12/18/18 12:55
 Received Date: 12/18/18 16:38
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/18/18 18:09

Batch Information

Analytical Batch: BTF17069
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/18/18 18:09
 Container ID: 1187133004-A



Results of MW-6

Client Sample ID: **MW-6**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133004
 Lab Project ID: 1187133

Collection Date: 12/18/18 12:55
 Received Date: 12/18/18 16:38
 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>
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		12/18/18 18:59
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/18/18 18:59
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/18/18 18:59

Batch Information

Analytical Batch: WIC5858
 Analytical Method: EPA 300.0
 Analyst: DMM
 Analytical Date/Time: 12/18/18 18:59
 Container ID: 1187133004-C

Prep Batch: WXX12662
 Prep Method: METHOD
 Prep Date/Time: 12/18/18 17:30
 Prep Initial Wt./Vol.: 10 mL
 Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.418 J	1.00	0.310	mg/L	1		01/03/19 09:59

Batch Information

Analytical Batch: WDA4482
 Analytical Method: SM21 4500-N D
 Analyst: DMM
 Analytical Date/Time: 01/03/19 09:59
 Container ID: 1187133004-B

Prep Batch: WXX12679
 Prep Method: METHOD
 Prep Date/Time: 12/27/18 10:20
 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	0.119	0.100	0.0310	mg/L	1		12/20/18 10:35

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 12/20/18 10:35
 Container ID: 1187133004-B

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/18 09:05
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

Results of B-3

Client Sample ID: **B-3**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133005
 Lab Project ID: 1187133

Collection Date: 12/18/18 13:15
 Received Date: 12/18/18 16:38
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/18/18 18:09

Batch Information

Analytical Batch: BTF17069
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/18/18 18:09
 Container ID: 1187133005-A



Results of B-3

Client Sample ID: B-3
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187133005
Lab Project ID: 1187133

Collection Date: 12/18/18 13:15
Received Date: 12/18/18 16:38
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5858
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/18/18 19:18
Container ID: 1187133005-C
Prep Batch: WXX12662
Prep Method: METHOD
Prep Date/Time: 12/18/18 17:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:00
Container ID: 1187133005-B
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Batch Information

Analytical Batch: WDA4477
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 12/20/18 10:37
Container ID: 1187133005-B
Prep Batch: WXX12665
Prep Method: METHOD
Prep Date/Time: 12/20/18 09:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL



Results of SW-5

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1187133006
Lab Project ID: 1187133

Collection Date: 12/18/18 14:00
Received Date: 12/18/18 16:38
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	4.05	2.00	2.00	mg/L	1		12/18/18 14:30

Batch Information

Analytical Batch: BOD6204
Analytical Method: SM21 5210B
Analyst: J.N
Analytical Date/Time: 12/18/18 14:30
Container ID: 1187133006-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/18/18 18:09

Batch Information

Analytical Batch: BTF17069
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 12/18/18 18:09
Container ID: 1187133006-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>
E. Coli	1 U	1	1	MPN/100r	1		12/18/18 18:07
Total Coliform	31	1	1	MPN/100r	1		12/18/18 18:07

Batch Information

Analytical Batch: BTF17070
Analytical Method: SM21 9223B
Analyst: DSH
Analytical Date/Time: 12/18/18 18:07
Container ID: 1187133006-F



Results of SW-5

Client Sample ID: SW-5
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187133006
Lab Project ID: 1187133

Collection Date: 12/18/18 14:00
Received Date: 12/18/18 16:38
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5858
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/18/18 19:37
Container ID: 1187133006-C
Prep Batch: WXX12662
Prep Method: METHOD
Prep Date/Time: 12/18/18 17:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Suspended Solids.

Batch Information

Analytical Batch: STS6116
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/21/18 16:33
Container ID: 1187133006-E

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:02
Container ID: 1187133006-B
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Results of SW-5

Client Sample ID: **SW-5**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187133006
 Lab Project ID: 1187133

Collection Date: 12/18/18 14:00
 Received Date: 12/18/18 16:38
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 12/20/18 10:42
 Container ID: 1187133006-B

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/18 09:05
 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>
Total Phosphorus	0.0202	0.0200	0.00500	mg/L	1		12/27/18 17:28

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Analyst: EWW
 Analytical Date/Time: 12/27/18 17:28
 Container ID: 1187133006-B

Prep Batch: WXX12673
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 12/27/18 11:55
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1790061 [BOD/6204]

Blank Lab ID: 1492799

QC for Samples:

1187133006

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: BOD6204

Analytical Method: SM21 5210B

Instrument:

Analyst: J.N

Analytical Date/Time: 12/18/2018 2:30:00PM

Print Date: 01/08/2019 4:10:31PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187133 [BOD6204]
Blank Spike Lab ID: 1492800
Date Analyzed: 12/18/2018 14:30

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133006

Results by SM21 5210B

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Biochemical Oxygen Demand	198	222	112	(84.6-115.4

Batch Information

Analytical Batch: BOD6204
Analytical Method: SM21 5210B
Instrument:
Analyst: J.N



Method Blank

Blank ID: MB for HBN 1789883 [BTF/17069]
Blank Lab ID: 1492001

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

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: BTF17069
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 12/18/2018 6:09:48PM

Print Date: 01/08/2019 4:10:34PM

Method Blank

Blank ID: MB for HBN 1789884 [BTF/17070]

Blank Lab ID: 1492002

QC for Samples:

1187133006

Matrix: Water (Surface, Eff., Ground)

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: BTF17070

Analytical Method: SM21 9223B

Instrument:

Analyst: DSH

Analytical Date/Time: 12/18/2018 6:07:44PM

Print Date: 01/08/2019 4:10:36PM

Method Blank

Blank ID: MB for HBN 1790016 [STS/6116]

Blank Lab ID: 1492582

QC for Samples:

1187133006

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: STS6116

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Analytical Date/Time: 12/21/2018 4:33:33PM

Print Date: 01/08/2019 4:10:38PM

Duplicate Sample Summary

Original Sample ID: 1187111002

Duplicate Sample ID: 1492585

QC for Samples:

1187133006

Analysis Date: 12/21/2018 16:33

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	12.2	11.8	mg/L	3.30	(< 5)

Batch Information

Analytical Batch: STS6116

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 01/08/2019 4:10:39PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187133 [STS6116]
 Blank Spike Lab ID: 1492583
 Date Analyzed: 12/21/2018 16:33

Spike Duplicate ID: LCSD for HBN 1187133 [STS6116]
 Spike Duplicate Lab ID: 1492584
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133006

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	25	24.2	97	25	24.6	98	(75-125)	1.60	(< 5)

Batch Information

Analytical Batch: STS6116
 Analytical Method: SM21 2540D
 Instrument:
 Analyst: EWW

Method Blank

Blank ID: MB for HBN 1789899 [WXX/12662]
 Blank Lab ID: 1492090

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

Results by EPA 300.0

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.0570J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC5858
 Analytical Method: EPA 300.0
 Instrument: 930 Metrohm compact IC flex
 Analyst: DMM
 Analytical Date/Time: 12/18/2018 1:55:50PM

Prep Batch: WXX12662
 Prep Method: METHOD
 Prep Date/Time: 12/18/2018 12:30:00PM
 Prep Initial Wt./Vol.: 10 mL
 Prep Extract Vol: 10 mL

Method Blank

Blank ID: MB for HBN 1789899 [WXX/12662]
 Blank Lab ID: 1492094

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

Results by EPA 300.0

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.0610J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC5858
 Analytical Method: EPA 300.0
 Instrument: 930 Metrohm compact IC flex
 Analyst: DMM
 Analytical Date/Time: 12/18/2018 11:06:31PM

Prep Batch: WXX12662
 Prep Method: METHOD
 Prep Date/Time: 12/18/2018 12:30:00PM
 Prep Initial Wt./Vol.: 10 mL
 Prep Extract Vol: 10 mL

Print Date: 01/08/2019 4:10:41PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187133 [WXX12662]
 Blank Spike Lab ID: 1492091
 Date Analyzed: 12/18/2018 14:14

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

Results by EPA 300.0

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	5	5.15	103	(90-110)
Nitrite-N	5	5.07	101	(90-110)
Total Nitrate/Nitrite-N	10	10.2	102	(90-110)

Batch Information

Analytical Batch: **WIC5858**
 Analytical Method: **EPA 300.0**
 Instrument: **930 Metrohm compact IC flex**
 Analyst: **DMM**

Prep Batch: **WXX12662**
 Prep Method: **METHOD**
 Prep Date/Time: **12/18/2018 12:30**
 Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
 Dupe Init Wt./Vol.: Extract Vol:

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187133 [WXX12662]
 Blank Spike Lab ID: 1492095
 Date Analyzed: 12/18/2018 23:25

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

Results by EPA 300.0

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	5	5.12	102	(90-110)
Nitrite-N	5	4.85	97	(90-110)
Total Nitrate/Nitrite-N	10	9.97	100	(90-110)

Batch Information

Analytical Batch: **WIC5858**
 Analytical Method: **EPA 300.0**
 Instrument: **930 Metrohm compact IC flex**
 Analyst: **DMM**

Prep Batch: **WXX12662**
 Prep Method: **METHOD**
 Prep Date/Time: **12/18/2018 12:30**
 Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
 Dupe Init Wt./Vol.: Extract Vol:

Method Blank

Blank ID: MB for HBN 1789996 [WXX/12665]
Blank Lab ID: 1492467

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

Results by SM21 4500-NH3 G

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Ammonia-N	0.0507J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4477
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 12/20/2018 10:22:05AM

Prep Batch: WXX12665
Prep Method: METHOD
Prep Date/Time: 12/20/2018 9:05:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 01/08/2019 4:10:43PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187133 [WXX12665]
 Blank Spike Lab ID: 1492468
 Date Analyzed: 12/20/2018 10:23

Spike Duplicate ID: LCSD for HBN 1187133 [WXX12665]
 Spike Duplicate Lab ID: 1492469
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

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	0.838	84	1	0.869	87	(75-125)	3.70	(< 25)

Batch Information

Analytical Batch: **WDA4477**
 Analytical Method: **SM21 4500-NH3 G**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12665**
 Prep Method: **METHOD**
 Prep Date/Time: **12/20/2018 09:05**
 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: 1187133001
 MS Sample ID: 1492470 MS
 MSD Sample ID: 1492471 MSD

Analysis Date: 12/20/2018 10:27
 Analysis Date: 12/20/2018 10:28
 Analysis Date: 12/20/2018 10:30
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

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	0.0651J	1.00	.936	87	1.00	0.863	80	75-125	8.00	(< 25)

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 12/20/2018 10:28:49AM

Prep Batch: WXX12665
 Prep Method: Ammonia by SM21 4500F prep (W)
 Prep Date/Time: 12/20/2018 9:05:00AM
 Prep Initial Wt./Vol.: 6.00mL
 Prep Extract Vol: 6.00mL



Method Blank

Blank ID: MB for HBN 1790157 [WXX/12673]
Blank Lab ID: 1493211

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1187133006

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: WDA4479
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 12/27/2018 5:24:48PM

Prep Batch: WXX12673
Prep Method: SM21 4500P-B,E
Prep Date/Time: 12/27/2018 11:55:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 01/08/2019 4:10:47PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187133 [WXX12673]
 Blank Spike Lab ID: 1493212
 Date Analyzed: 12/27/2018 17:25

Spike Duplicate ID: LCSD for HBN 1187133 [WXX12673]
 Spike Duplicate Lab ID: 1493213
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133006

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	0.198	99	0.2	0.190	95	(75-125)	3.90	(< 25)

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: EWW

Prep Batch: WXX12673
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 12/27/2018 11:55
 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: 01/08/2019 4:10:48PM

Matrix Spike Summary

Original Sample ID: 1493202
 MS Sample ID: 1493214 MS
 MSD Sample ID: 1493215 MSD

Analysis Date: 12/27/2018 17:32
 Analysis Date: 12/27/2018 17:35
 Analysis Date: 12/27/2018 17:36
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133006

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	0.591	0.200	.744	77	0.200	0.755	82	75-125	1.40	(< 25)

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: EWW
 Analytical Date/Time: 12/27/2018 5:35:29PM

Prep Batch: WXX12673
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 12/27/2018 11:55:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Method Blank

Blank ID: MB for HBN 1790213 [WXX/12679]
Blank Lab ID: 1493434

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

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: WDA4482
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 1/3/2019 9:42:29AM

Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/2018 10:20:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 01/08/2019 4:10:50PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187133 [WXX12679]
 Blank Spike Lab ID: 1493435
 Date Analyzed: 01/03/2019 09:43

Spike Duplicate ID: LCSD for HBN 1187133
 [WXX12679]
 Spike Duplicate Lab ID: 1493436
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

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	4.39	110	4	4.18	105	(75-125)	4.80	(< 25)

Batch Information

Analytical Batch: **WDA4482**
 Analytical Method: **SM21 4500-N D**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12679**
 Prep Method: **METHOD**
 Prep Date/Time: **12/27/2018 10:20**
 Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Print Date: 01/08/2019 4:10:51PM

Matrix Spike Summary

Original Sample ID: 1187133001
 MS Sample ID: 1493437 MS
 MSD Sample ID: 1493438 MSD

Analysis Date: 01/03/2019 9:50
 Analysis Date: 01/03/2019 9:51
 Analysis Date: 01/03/2019 9:52
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187133001, 1187133002, 1187133003, 1187133004, 1187133005, 1187133006

Results by SM21 4500-N D

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Kjeldahl Nitrogen	0.500U	4.00	4.49	112	4.00	4.19	105	75-125	7.10	(< 25)

Batch Information

Analytical Batch: WDA4482
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 1/3/2019 9:51:38AM

Prep Batch: WXX12679
 Prep Method: Distillation TKN by Phenate (W)
 Prep Date/Time: 12/27/2018 10:20:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Print Date: 01/08/2019 4:10:53PM



1187133



SGS North America Inc. CHAIN OF CUSTODY RECORD

Locations Nationwide

- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Indiana
- Kentucky

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CLIENT: Stantec

CONTACT: Jake Alward **PHONE NO:** 343 5202

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

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

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

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	#	CONTAINER	Type C = COMP G = GRAB MI = Multi Incremental Soils	Preservative							REMARKS/ LOC ID		
								BOD	TSS	Na ₂ SO ₄	TC (Quant) Max Na ₂ SO ₄	TPH / Ammonia	TPH / Ammonia	TPH / Nitrate Nitrite			
① A-C	MW-10	12/18/18	10:00	Water	3	G											
② A-C	MW-15		10:40		3												
③ A-C	B-4		12:05		3												
④ A-C	MW 6		12:55		3												
⑤ A-C	B3		13:15		3												
⑥ A-F	SW 5		14:00		6												

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

Relinquished By: (1) *[Signature]* **Date:** 12/18/18 **Time:** 1638 **Received By:** *[Signature]*

Relinquished By: (2) *[Signature]* **Date:** **Time:** **Received By:**

Relinquished By: (3) *[Signature]* **Date:** **Time:** **Received By:**

Relinquished By: (4) *[Signature]* **Date:** 12/18/18 **Time:** 1638 **Received For Laboratory By:** *[Signature]*

Section 5 **Temp Blank °C:** 1.5° #D11 **Chain of Custody Seal: (Circle)**

or Ambient [] **INTACT BROKEN ABSENT**

(See attached Sample Receipt Form) **(See attached Sample Receipt Form)**



e-Sample Receipt Form

SGS Workorder #:

1187133



1 1 8 7 1 3 3

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	
COC accompanied samples?	<input checked="" type="checkbox"/> Yes	
<input type="checkbox"/> N/A **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	<input checked="" type="checkbox"/> Yes	Cooler ID: 1 @ 1.5 °C Therm. ID: D11
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	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 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	Proceed without Trip Blank, per Jillian.
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>
1187133001-A	Na2S2O3 for Chlorine Redu	OK			
1187133001-B	H2SO4 to pH < 2	OK			
1187133001-C	No Preservative Required	OK			
1187133002-A	Na2S2O3 for Chlorine Redu	OK			
1187133002-B	H2SO4 to pH < 2	OK			
1187133002-C	No Preservative Required	OK			
1187133003-A	Na2S2O3 for Chlorine Redu	OK			
1187133003-B	H2SO4 to pH < 2	OK			
1187133003-C	No Preservative Required	OK			
1187133004-A	Na2S2O3 for Chlorine Redu	OK			
1187133004-B	H2SO4 to pH < 2	OK			
1187133004-C	No Preservative Required	OK			
1187133005-A	Na2S2O3 for Chlorine Redu	OK			
1187133005-B	H2SO4 to pH < 2	OK			
1187133005-C	No Preservative Required	OK			
1187133006-A	Na2S2O3 for Chlorine Redu	OK			
1187133006-B	H2SO4 to pH < 2	OK			
1187133006-C	No Preservative Required	OK			
1187133006-D	No Preservative Required	OK			
1187133006-E	No Preservative Required	OK			
1187133006-F	Na2S2O3 for Chlorine Redu	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 than an inappropriate container was submitted.

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

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

DM - The container was received damaged.

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

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

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: **1187175**

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: **1187175**

Project Name/Site: **Wasilla WWTP**

Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SW17 (1187175004) PS

5210B BOD - The sample was analyzed past holding time due to holiday analysis schedules.

SW18 (1187175005) PS

5210B BOD - The sample was analyzed past holding time due to holiday analysis schedules.

DUP (1187175006) PS

5210B BOD - The sample was analyzed past holding time due to holiday analysis schedules.

*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: 01/08/2019 4:15:43PM

Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry (Provisionally Certified as of 12/06/2018 for Uranium by EPA200.8, TDS by SM 2540C and Nitrate by SM 4500-NO3-F) & 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>
MW13	1187175001	12/19/2018	12/19/2018	Water (Surface, Eff., Ground)
MW14A	1187175002	12/19/2018	12/19/2018	Water (Surface, Eff., Ground)
MW20	1187175003	12/19/2018	12/19/2018	Water (Surface, Eff., Ground)
SW17	1187175004	12/19/2018	12/19/2018	Water (Surface, Eff., Ground)
SW18	1187175005	12/19/2018	12/19/2018	Water (Surface, Eff., Ground)
DUP	1187175006	12/19/2018	12/19/2018	Water (Surface, Eff., Ground)
B11	1187175007	12/19/2018	12/19/2018	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)
EPA 300.0	Ion Chromatographic 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: 01/08/2019 4:15:46PM

Detectable Results Summary

Client Sample ID: **MW13**
 Lab Sample ID: 1187175001
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.138	mg/L
Total Kjeldahl Nitrogen	0.579J	mg/L

Client Sample ID: **MW14A**
 Lab Sample ID: 1187175002
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.0701J	mg/L
Total Kjeldahl Nitrogen	0.333J	mg/L
Total Nitrate/Nitrite-N	0.0760J	mg/L

Client Sample ID: **MW20**
 Lab Sample ID: 1187175003
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.0648J	mg/L
Nitrate-N	0.247	mg/L
Total Kjeldahl Nitrogen	0.348J	mg/L
Total Nitrate/Nitrite-N	0.247	mg/L

Client Sample ID: **SW17**
 Lab Sample ID: 1187175004
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	5	MPN/100mL
Total Coliform	66	MPN/100mL
Ammonia-N	0.128	mg/L
Nitrate-N	3.26	mg/L
Total Kjeldahl Nitrogen	0.683J	mg/L
Total Nitrate/Nitrite-N	3.26	mg/L
Total Phosphorus	0.125	mg/L
Total Suspended Solids	4.40	mg/L

Client Sample ID: **SW18**
 Lab Sample ID: 1187175005
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	1	MPN/100mL
Fecal Coliform	2.0	col/100mL
Total Coliform	219	MPN/100mL
Ammonia-N	0.165	mg/L
Nitrate-N	3.31	mg/L
Total Kjeldahl Nitrogen	0.979J	mg/L
Total Nitrate/Nitrite-N	3.34	mg/L
Total Phosphorus	0.599	mg/L
Total Suspended Solids	1.89	mg/L

Detectable Results Summary

Client Sample ID: **DUP**
 Lab Sample ID: 1187175006
Microbiology Laboratory

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
E. Coli	2	MPN/100mL
Total Coliform	219	MPN/100mL
Ammonia-N	0.212	mg/L
Nitrate-N	3.29	mg/L
Total Kjeldahl Nitrogen	1.02	mg/L
Total Nitrate/Nitrite-N	3.32	mg/L
Total Phosphorus	0.545	mg/L
Total Suspended Solids	2.18	mg/L

Client Sample ID: **B11**
 Lab Sample ID: 1187175007
Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Ammonia-N	0.185	mg/L
Total Kjeldahl Nitrogen	0.646J	mg/L

Results of MW13

Client Sample ID: **MW13**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187175001
 Lab Project ID: 1187175

Collection Date: 12/19/18 12:00
 Received Date: 12/19/18 15:41
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/19/18 17:33

Batch Information

Analytical Batch: BTF17073
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/19/18 17:33
 Container ID: 1187175001-A



Results of MW13

Client Sample ID: **MW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1187175001
Lab Project ID: 1187175

Collection Date: 12/19/18 12:00
Received Date: 12/19/18 15:41
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>
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		12/20/18 14:43
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/20/18 14:43
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/20/18 14:43

Batch Information

Analytical Batch: WIC5859
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/20/18 14:43
Container ID: 1187175001-B

Prep Batch: WXX12667
Prep Method: METHOD
Prep Date/Time: 12/20/18 08:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.579 J	1.00	0.310	mg/L	1		01/03/19 10:03

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:03
Container ID: 1187175001-C

Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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	0.138	0.100	0.0310	mg/L	1		12/20/18 10:43

Batch Information

Analytical Batch: WDA4477
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 12/20/18 10:43
Container ID: 1187175001-C

Prep Batch: WXX12665
Prep Method: METHOD
Prep Date/Time: 12/20/18 09:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of MW14A

Client Sample ID: **MW14A**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187175002
 Lab Project ID: 1187175

Collection Date: 12/19/18 14:00
 Received Date: 12/19/18 15:41
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/19/18 17:33

Batch Information

Analytical Batch: BTF17073
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/19/18 17:33
 Container ID: 1187175002-A



Results of MW14A

Client Sample ID: MW14A
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187175002
Lab Project ID: 1187175

Collection Date: 12/19/18 14:00
Received Date: 12/19/18 15:41
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5859
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/20/18 13:44
Container ID: 1187175002-B
Prep Batch: WXX12667
Prep Method: METHOD
Prep Date/Time: 12/20/18 08:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:04
Container ID: 1187175002-C
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Batch Information

Analytical Batch: WDA4477
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 12/20/18 10:45
Container ID: 1187175002-C
Prep Batch: WXX12665
Prep Method: METHOD
Prep Date/Time: 12/20/18 09:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of MW20

Client Sample ID: **MW20**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187175003
 Lab Project ID: 1187175

Collection Date: 12/19/18 14:30
 Received Date: 12/19/18 15:41
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/19/18 17:33

Batch Information

Analytical Batch: BTF17073
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/19/18 17:33
 Container ID: 1187175003-A



Results of MW20

Client Sample ID: MW20
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187175003
Lab Project ID: 1187175

Collection Date: 12/19/18 14:30
Received Date: 12/19/18 15:41
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5859
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/20/18 15:02
Container ID: 1187175003-B
Prep Batch: WXX12667
Prep Method: METHOD
Prep Date/Time: 12/20/18 08:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:05
Container ID: 1187175003-C
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Batch Information

Analytical Batch: WDA4477
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 12/20/18 10:47
Container ID: 1187175003-C
Prep Batch: WXX12665
Prep Method: METHOD
Prep Date/Time: 12/20/18 09:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL



Results of SW17

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1187175004
Lab Project ID: 1187175

Collection Date: 12/19/18 12:20
Received Date: 12/19/18 15:41
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		12/21/18 14:38

Batch Information

Analytical Batch: BOD6205
Analytical Method: SM21 5210B
Analyst: J.N
Analytical Date/Time: 12/21/18 14:38
Container ID: 1187175004-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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/19/18 17:33

Batch Information

Analytical Batch: BTF17073
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 12/19/18 17:33
Container ID: 1187175004-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>
E. Coli	5	1	1	MPN/100r	1		12/19/18 17:40
Total Coliform	66	1	1	MPN/100r	1		12/19/18 17:40

Batch Information

Analytical Batch: BTF17074
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 12/19/18 17:40
Container ID: 1187175004-F



Results of SW17

Client Sample ID: SW17
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187175004
Lab Project ID: 1187175

Collection Date: 12/19/18 12:20
Received Date: 12/19/18 15:41
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5859
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/20/18 15:21
Container ID: 1187175004-B
Prep Batch: WXX12667
Prep Method: METHOD
Prep Date/Time: 12/20/18 08:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Suspended Solids.

Batch Information

Analytical Batch: STS6116
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/21/18 16:33
Container ID: 1187175004-D

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:07
Container ID: 1187175004-C
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Results of SW17

Client Sample ID: **SW17**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187175004
 Lab Project ID: 1187175

Collection Date: 12/19/18 12:20
 Received Date: 12/19/18 15:41
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 12/20/18 10:48
 Container ID: 1187175004-C

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/18 09:05
 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>
Total Phosphorus	0.125	0.0200	0.00500	mg/L	1		12/27/18 17:32

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Analyst: EWW
 Analytical Date/Time: 12/27/18 17:32
 Container ID: 1187175004-C

Prep Batch: WXX12673
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 12/27/18 11:55
 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: 1187175005
Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
Received Date: 12/19/18 15:41
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		12/21/18 14:38

Batch Information

Analytical Batch: BOD6205
Analytical Method: SM21 5210B
Analyst: J.N
Analytical Date/Time: 12/21/18 14:38
Container ID: 1187175005-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>
Fecal Coliform	2.0	1.00	1.00	col/100mL	1		12/19/18 17:33

Batch Information

Analytical Batch: BTF17073
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 12/19/18 17:33
Container ID: 1187175005-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>
E. Coli	1	1	1	MPN/100r	1		12/19/18 17:40
Total Coliform	219	1	1	MPN/100r	1		12/19/18 17:40

Batch Information

Analytical Batch: BTF17074
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 12/19/18 17:40
Container ID: 1187175005-F



Results of SW18

Client Sample ID: SW18
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187175005
Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
Received Date: 12/19/18 15:41
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5859
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/20/18 15:40
Container ID: 1187175005-B
Prep Batch: WXX12667
Prep Method: METHOD
Prep Date/Time: 12/20/18 08:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Suspended Solids.

Batch Information

Analytical Batch: STS6116
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/21/18 16:33
Container ID: 1187175005-D

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:08
Container ID: 1187175005-C
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Results of SW18

Client Sample ID: **SW18**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187175005
 Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
 Received Date: 12/19/18 15:41
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 12/20/18 10:50
 Container ID: 1187175005-C

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/18 09:05
 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>
Total Phosphorus	0.599	0.200	0.0500	mg/L	1		12/28/18 12:28

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Analyst: EWW
 Analytical Date/Time: 12/28/18 12:28
 Container ID: 1187175005-C

Prep Batch: WXX12674
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 12/28/18 09:45
 Prep Initial Wt./Vol.: 2.5 mL
 Prep Extract Vol: 25 mL



Results of DUP

Client Sample ID: **DUP**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1187175006
Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
Received Date: 12/19/18 15:41
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		12/21/18 14:38

Batch Information

Analytical Batch: BOD6205
Analytical Method: SM21 5210B
Analyst: J.N
Analytical Date/Time: 12/21/18 14:38
Container ID: 1187175006-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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/19/18 17:33

Batch Information

Analytical Batch: BTF17073
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 12/19/18 17:33
Container ID: 1187175006-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>
E. Coli	2	1	1	MPN/100r	1		12/19/18 17:40
Total Coliform	219	1	1	MPN/100r	1		12/19/18 17:40

Batch Information

Analytical Batch: BTF17074
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 12/19/18 17:40
Container ID: 1187175006-F



Results of DUP

Client Sample ID: **DUP**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1187175006
Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
Received Date: 12/19/18 15:41
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>
Nitrate-N	3.29	0.200	0.0500	mg/L	1		12/20/18 15:59
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		12/20/18 15:59
Total Nitrate/Nitrite-N	3.32	0.200	0.0500	mg/L	1		12/20/18 15:59

Batch Information

Analytical Batch: WIC5859	Prep Batch: WXX12667
Analytical Method: EPA 300.0	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 12/20/18 08:30
Analytical Date/Time: 12/20/18 15:59	Prep Initial Wt./Vol.: 10 mL
Container ID: 1187175006-B	Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	2.18	1.82	0.564	mg/L	1		12/21/18 16:33

Batch Information

Analytical Batch: STS6116
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 12/21/18 16:33
Container ID: 1187175006-D

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	1.02	1.00	0.310	mg/L	1		01/03/19 10:09

Batch Information

Analytical Batch: WDA4482	Prep Batch: WXX12679
Analytical Method: SM21 4500-N D	Prep Method: METHOD
Analyst: DMM	Prep Date/Time: 12/27/18 10:20
Analytical Date/Time: 01/03/19 10:09	Prep Initial Wt./Vol.: 25 mL
Container ID: 1187175006-C	Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Ammonia-N	0.212	0.100	0.0310	mg/L	1		12/20/18 10:52

Results of DUP

Client Sample ID: **DUP**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187175006
 Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
 Received Date: 12/19/18 15:41
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Analyst: DMM
 Analytical Date/Time: 12/20/18 10:52
 Container ID: 1187175006-C

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/18 09:05
 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>
Total Phosphorus	0.545	0.200	0.0500	mg/L	1		12/28/18 12:30

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Analyst: EWW
 Analytical Date/Time: 12/28/18 12:30
 Container ID: 1187175006-C

Prep Batch: WXX12674
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 12/28/18 09:45
 Prep Initial Wt./Vol.: 2.5 mL
 Prep Extract Vol: 25 mL

Results of B11

Client Sample ID: **B11**
 Client Project ID: **Wasilla WWTP**
 Lab Sample ID: 1187175007
 Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
 Received Date: 12/19/18 15:41
 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>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		12/19/18 17:33

Batch Information

Analytical Batch: BTF17073
 Analytical Method: SM21 9222D
 Analyst: A.L
 Analytical Date/Time: 12/19/18 17:33
 Container ID: 1187175007-A



Results of B11

Client Sample ID: B11
Client Project ID: Wasilla WWTP
Lab Sample ID: 1187175007
Lab Project ID: 1187175

Collection Date: 12/19/18 12:54
Received Date: 12/19/18 15:41
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. Rows include Nitrate-N, Nitrite-N, and Total Nitrate/Nitrite-N.

Batch Information

Analytical Batch: WIC5859
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 12/20/18 16:18
Container ID: 1187175007-B
Prep Batch: WXX12667
Prep Method: METHOD
Prep Date/Time: 12/20/18 08:30
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Table with 8 columns: Parameter, Result Qual, LOQ/CL, DL, Units, DF, Allowable Limits, Date Analyzed. Row includes Total Kjeldahl Nitrogen.

Batch Information

Analytical Batch: WDA4482
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 01/03/19 10:13
Container ID: 1187175007-C
Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/18 10:20
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 includes Ammonia-N.

Batch Information

Analytical Batch: WDA4477
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 12/20/18 10:53
Container ID: 1187175007-C
Prep Batch: WXX12665
Prep Method: METHOD
Prep Date/Time: 12/20/18 09:05
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL



Method Blank

Blank ID: MB for HBN 1790076 [BOD/6205]

Blank Lab ID: 1492887

QC for Samples:

1187175004, 1187175005, 1187175006

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: BOD6205

Analytical Method: SM21 5210B

Instrument:

Analyst: J.N

Analytical Date/Time: 12/21/2018 2:38:00PM

Print Date: 01/08/2019 4:15:50PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187175 [BOD6205]

Blank Spike Lab ID: 1492888

Date Analyzed: 12/21/2018 14:38

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175004, 1187175005, 1187175006

Results by SM21 5210B

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Biochemical Oxygen Demand	198	205	104	(84.6-115.4

Batch Information

Analytical Batch: BOD6205

Analytical Method: SM21 5210B

Instrument:

Analyst: J.N

Print Date: 01/08/2019 4:15:51PM



Method Blank

Blank ID: MB for HBN 1789933 [BTF/17073]
Blank Lab ID: 1492202

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

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: BTF17073
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 12/19/2018 5:33:14PM

Print Date: 01/08/2019 4:15:54PM

Method Blank

Blank ID: MB for HBN 1789934 [BTF/17074]

Blank Lab ID: 1492204

QC for Samples:

1187175004, 1187175005, 1187175006

Matrix: Water (Surface, Eff., Ground)

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: BTF17074

Analytical Method: SM21 9223B

Instrument:

Analyst: NRO

Analytical Date/Time: 12/19/2018 5:40:45PM

Print Date: 01/08/2019 4:15:56PM



Method Blank

Blank ID: MB for HBN 1790016 [STS/6116]

Blank Lab ID: 1492582

QC for Samples:

1187175004, 1187175005, 1187175006

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: STS6116

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Analytical Date/Time: 12/21/2018 4:33:33PM

Print Date: 01/08/2019 4:15:58PM

Duplicate Sample Summary

Original Sample ID: 1187111002

Duplicate Sample ID: 1492585

QC for Samples:

1187175004, 1187175005, 1187175006

Analysis Date: 12/21/2018 16:33

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	12.2	11.8	mg/L	3.30	(< 5)

Batch Information

Analytical Batch: STS6116

Analytical Method: SM21 2540D

Instrument:

Analyst: EWW

Print Date: 01/08/2019 4:15:59PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187175 [STS6116]
 Blank Spike Lab ID: 1492583
 Date Analyzed: 12/21/2018 16:33

Spike Duplicate ID: LCSD for HBN 1187175 [STS6116]
 Spike Duplicate Lab ID: 1492584
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175004, 1187175005, 1187175006

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	25	24.2	97	25	24.6	98	(75-125)	1.60	(< 5)

Batch Information

Analytical Batch: STS6116
 Analytical Method: SM21 2540D
 Instrument:
 Analyst: EWW

Method Blank

Blank ID: MB for HBN 1789996 [WXX/12665]
 Blank Lab ID: 1492467

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

Results by SM21 4500-NH3 G

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>
Ammonia-N	0.0507J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 12/20/2018 10:22:05AM

Prep Batch: WXX12665
 Prep Method: METHOD
 Prep Date/Time: 12/20/2018 9:05:00AM
 Prep Initial Wt./Vol.: 6 mL
 Prep Extract Vol: 6 mL

Print Date: 01/08/2019 4:16:02PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187175 [WXX12665]
 Blank Spike Lab ID: 1492468
 Date Analyzed: 12/20/2018 10:23

Spike Duplicate ID: LCSD for HBN 1187175
 [WXX12665]
 Spike Duplicate Lab ID: 1492469
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

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	0.838	84	1	0.869	87	(75-125)	3.70	(< 25)

Batch Information

Analytical Batch: **WDA4477**
 Analytical Method: **SM21 4500-NH3 G**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12665**
 Prep Method: **METHOD**
 Prep Date/Time: **12/20/2018 09:05**
 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: 1187133001
 MS Sample ID: 1492470 MS
 MSD Sample ID: 1492471 MSD

Analysis Date: 12/20/2018 10:27
 Analysis Date: 12/20/2018 10:28
 Analysis Date: 12/20/2018 10:30
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

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	0.0651J	1.00	.936	87	1.00	0.863	80	75-125	8.00	(< 25)

Batch Information

Analytical Batch: WDA4477
 Analytical Method: SM21 4500-NH3 G
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 12/20/2018 10:28:49AM

Prep Batch: WXX12665
 Prep Method: Ammonia by SM21 4500F prep (W)
 Prep Date/Time: 12/20/2018 9:05:00AM
 Prep Initial Wt./Vol.: 6.00mL
 Prep Extract Vol: 6.00mL

Method Blank

Blank ID: MB for HBN 1790056 [WXX/12667]
 Blank Lab ID: 1492768

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

Results by EPA 300.0

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

Batch Information

Analytical Batch: WIC5859
 Analytical Method: EPA 300.0
 Instrument: 930 Metrohm compact IC flex
 Analyst: DMM
 Analytical Date/Time: 12/20/2018 10:29:16AM

Prep Batch: WXX12667
 Prep Method: METHOD
 Prep Date/Time: 12/20/2018 8:30:00AM
 Prep Initial Wt./Vol.: 10 mL
 Prep Extract Vol: 10 mL

Print Date: 01/08/2019 4:16:05PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187175 [WXX12667]
 Blank Spike Lab ID: 1492769
 Date Analyzed: 12/20/2018 10:48

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

Results by EPA 300.0

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Nitrate-N	5	5.00	100	(90-110)
Nitrite-N	5	4.72	94	(90-110)
Total Nitrate/Nitrite-N	10	9.72	97	(90-110)

Batch Information

Analytical Batch: **WIC5859**
 Analytical Method: **EPA 300.0**
 Instrument: **930 Metrohm compact IC flex**
 Analyst: **DMM**

Prep Batch: **WXX12667**
 Prep Method: **METHOD**
 Prep Date/Time: **12/20/2018 08:30**
 Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
 Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 1187175002
 MS Sample ID: 1492770 MS
 MSD Sample ID: 1492771 MSD

Analysis Date: 12/20/2018 13:44
 Analysis Date: 12/20/2018 14:05
 Analysis Date: 12/20/2018 14:24
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

Results by EPA 300.0

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Nitrate-N	0.100U	5.00	5.1	102	5.00	5.12	102	90-110	0.37	(< 15)
Nitrite-N	0.100U	5.00	4.71	94	5.00	4.71	94	90-110	0.00	(< 15)
Total Nitrate/Nitrite-N	0.0760J	10.0	9.82	97	10.0	9.83	98	90-110	0.19	(< 15)

Batch Information

Analytical Batch: WIC5859
 Analytical Method: EPA 300.0
 Instrument: 930 Metrohm compact IC flex
 Analyst: DMM
 Analytical Date/Time: 12/20/2018 2:05:36PM

Prep Batch: WXX12667
 Prep Method: EPA 300.0 Extraction Waters/Liquids
 Prep Date/Time: 12/20/2018 8:30:00AM
 Prep Initial Wt./Vol.: 10.00mL
 Prep Extract Vol: 10.00mL



Method Blank

Blank ID: MB for HBN 1790157 [WXX/12673]
Blank Lab ID: 1493211

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1187175004

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: WDA4479
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 12/27/2018 5:24:48PM

Prep Batch: WXX12673
Prep Method: SM21 4500P-B,E
Prep Date/Time: 12/27/2018 11:55:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 01/08/2019 4:16:09PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187175 [WXX12673]
 Blank Spike Lab ID: 1493212
 Date Analyzed: 12/27/2018 17:25

Spike Duplicate ID: LCSD for HBN 1187175 [WXX12673]
 Spike Duplicate Lab ID: 1493213
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175004

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	0.198	99	0.2	0.190	95	(75-125)	3.90	(< 25)

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: EWW

Prep Batch: WXX12673
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 12/27/2018 11:55
 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: 1493202
 MS Sample ID: 1493214 MS
 MSD Sample ID: 1493215 MSD

Analysis Date: 12/27/2018 17:32
 Analysis Date: 12/27/2018 17:35
 Analysis Date: 12/27/2018 17:36
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175004

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	0.591	0.200	.744	77	0.200	0.755	82	75-125	1.40	(< 25)

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: EWW
 Analytical Date/Time: 12/27/2018 5:35:29PM

Prep Batch: WXX12673
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 12/27/2018 11:55:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Method Blank

Blank ID: MB for HBN 1790158 [WXX/12674]

Blank Lab ID: 1493216

QC for Samples:

1187175005, 1187175006

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	0.00890J	0.0200	0.00500	mg/L

Batch Information

Analytical Batch: WDA4479

Analytical Method: SM21 4500P-B,E

Instrument: Discrete Analyzer 2

Analyst: EWW

Analytical Date/Time: 12/28/2018 12:24:43PM

Prep Batch: WXX12674

Prep Method: SM21 4500P-B,E

Prep Date/Time: 12/28/2018 9:45:00AM

Prep Initial Wt./Vol.: 25 mL

Prep Extract Vol: 25 mL

Print Date: 01/08/2019 4:16:12PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187175 [WXX12674]
 Blank Spike Lab ID: 1493217
 Date Analyzed: 12/28/2018 12:25

Spike Duplicate ID: LCSD for HBN 1187175 [WXX12674]
 Spike Duplicate Lab ID: 1493218
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175005, 1187175006

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	0.186	93	0.2	0.191	96	(75-125)	2.90	(< 25)

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: EWW

Prep Batch: WXX12674
 Prep Method: SM21 4500P-B,E
 Prep Date/Time: 12/28/2018 09:45
 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: 1187175005
 MS Sample ID: 1493219 MS
 MSD Sample ID: 1493220 MSD

Analysis Date: 12/28/2018 12:28
 Analysis Date: 12/28/2018 12:29
 Analysis Date: 12/28/2018 12:29
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175005, 1187175006

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	0.599	2.00	2.37	89	2.00	2.42	91	75-125	2.10	(< 25)

Batch Information

Analytical Batch: WDA4479
 Analytical Method: SM21 4500P-B,E
 Instrument: Discrete Analyzer 2
 Analyst: EWW
 Analytical Date/Time: 12/28/2018 12:29:00PM

Prep Batch: WXX12674
 Prep Method: Total Phosphorus (W) Ext.
 Prep Date/Time: 12/28/2018 9:45:00AM
 Prep Initial Wt./Vol.: 2.50mL
 Prep Extract Vol: 25.00mL

Method Blank

Blank ID: MB for HBN 1790213 [WXX/12679]
Blank Lab ID: 1493434

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

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: WDA4482
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 1/3/2019 9:42:29AM

Prep Batch: WXX12679
Prep Method: METHOD
Prep Date/Time: 12/27/2018 10:20:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 01/08/2019 4:16:15PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1187175 [WXX12679]
 Blank Spike Lab ID: 1493435
 Date Analyzed: 01/03/2019 09:43

Spike Duplicate ID: LCSD for HBN 1187175
 [WXX12679]
 Spike Duplicate Lab ID: 1493436
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

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	4.39	110	4	4.18	105	(75-125)	4.80	(< 25)

Batch Information

Analytical Batch: **WDA4482**
 Analytical Method: **SM21 4500-N D**
 Instrument: **Discrete Analyzer 2**
 Analyst: **DMM**

Prep Batch: **WXX12679**
 Prep Method: **METHOD**
 Prep Date/Time: **12/27/2018 10:20**
 Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
 Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Print Date: 01/08/2019 4:16:16PM

Matrix Spike Summary

Original Sample ID: 1187133001
 MS Sample ID: 1493437 MS
 MSD Sample ID: 1493438 MSD

Analysis Date: 01/03/2019 9:50
 Analysis Date: 01/03/2019 9:51
 Analysis Date: 01/03/2019 9:52
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1187175001, 1187175002, 1187175003, 1187175004, 1187175005, 1187175006, 1187175007

Results by SM21 4500-N D

Parameter	Sample	Matrix Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Kjeldahl Nitrogen	0.500U	4.00	4.49	112	4.00	4.19	105	75-125	7.10	(< 25)

Batch Information

Analytical Batch: WDA4482
 Analytical Method: SM21 4500-N D
 Instrument: Discrete Analyzer 2
 Analyst: DMM
 Analytical Date/Time: 1/3/2019 9:51:38AM

Prep Batch: WXX12679
 Prep Method: Distillation TKN by Phenate (W)
 Prep Date/Time: 12/27/2018 10:20:00AM
 Prep Initial Wt./Vol.: 25.00mL
 Prep Extract Vol: 25.00mL

Print Date: 01/08/2019 4:16:17PM



1187175



SGS North America Inc. CHAIN OF CUSTODY RECORD

Locations Nationwide

- Alaska
- New Jersey
- North Carolina
- West Virginia
- Maryland
- New York
- Indiana
- Kentucky

www.us.sgs.com

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

Page 1 of 1

CLIENT: Stantec

CONTACT: Jake Alward PHONE NO: 543-5202

PROJECT NAME: Wasilla WWTP PROJECT PWSID/ PERMIT#:

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

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

Section 1	Section 2	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	CONTAINER	Type C = COMP G = GRAB MI = Multi Incremental Soils	Preservative							REMARKS/ LOC ID	
											Na2SO4	Na2SO4		H2SO4	H2SO4		

Section 1	Section 2	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/MATRIX CODE	CONTAINER	Type C = COMP G = GRAB MI = Multi Incremental Soils	Preservative	REMARKS/ LOC ID
			1A-C MW13	12/19/18	12:00	Water	3	G		
			2A-C MW14A		14:00		3			
			3A-C MW10		14:30		3			
			4A-F SW17		12:20		6			
			5A-F SW18		12:54		6			
			6A-F DUP		12:54		6			
			7A-C B11		10:00		6			

Relinquished By: (1) [Signature] Date 12/19/18 Time 15:41 Received By: [Signature]

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

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

Relinquished By: (4) [Signature] Date 12/19/18 Time 1541 Received For Laboratory By: [Signature]

Section 4 DOD Project? Yes No Data Deliverable Requirements:

Cooler ID: _____

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 3.4° ± D25 Chain of Custody Seal: (Circle) INTACT H/D BROKEN ABSENT

(See attached Sample Receipt Form) (See attached Sample Receipt Form)



e-Sample Receipt Form

SGS Workorder #:

1187175



1 1 8 7 1 7 5

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements	<input checked="" type="checkbox"/> Yes	Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	<input type="checkbox"/> N/A	Hand Delivered
COC accompanied samples?	<input checked="" type="checkbox"/> Yes	
<input checked="" type="checkbox"/> Yes **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 @ 3.4 °C Therm. ID: D25
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	Cooler ID: @ °C Therm. ID:
	<input type="checkbox"/>	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 were received for BOD analysis on 12/19/2018, however due to holiday closures we are unable to accept this analysis.		