

Laboratory Report of Analysis

To: Stantec Consulting Services Inc.

725 East Fireweed Lane Suite 200 Anchorage, AK 99503 (907)248-8883

Report Number: 1191264

Client Project: Wasilla WWTP

Dear John Marshall,

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

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

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

Sincerely, SGS North America Inc.

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

Print Date: 04/03/2019 3:12:52PM Results via Engage



Case Narrative

SGS Client: Stantec Consulting Services Inc.
SGS Project: 1191264

Project Name/Site: Wasilla WWTP
Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

MW15 (1191264002) PS

9222D- Fecal coliform sample has elevated detection limit due to matrix interference, sample had heavy sediment.

MW13 (1191264007) PS

9222D- Fecal coliform sample has elevated detection limit due to matrix interference, sample had heavy sediment.

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

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Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). 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.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
MW10	1191264001	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)
MW15	1191264002	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)
B1	1191264003	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)
B4	1191264004	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)
MW6	1191264005	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)
MW11	1191264006	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)
MW13	1191264007	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)
D1	1191264008	03/22/2019	03/22/2019	Water (Surface, Eff., Ground)

Method

SM21 4500-NH3 G

SM21 9222D

EPA 300.0

SM21 4500-N D

Method Description

Ammonia-N (W) SM21 4500-NH3 G

Fecal Coliform (MF)

Ion Chromatographic Analysis

TKN by Phenate (W)



Detectable Results Summary

Client Sample ID: MW10 Lab Sample ID: 1191264001 Waters Department	<u>Parameter</u>	Result	Units
	Ammonia-N	0.0655J	mg/L
	Nitrate-N	0.246	mg/L
	Total Nitrate/Nitrite-N	0.279	mg/L
Client Sample ID: MW15 Lab Sample ID: 1191264002 Waters Department	<u>Parameter</u>	Result	Units
	Ammonia-N	0.222	mg/L
	Total Kjeldahl Nitrogen	0.916J	mg/L
Client Sample ID: B1 Lab Sample ID: 1191264003 Waters Department	<u>Parameter</u>	Result	<u>Units</u>
	Ammonia-N	0.130	mg/L
Client Sample ID: B4 Lab Sample ID: 1191264004 Waters Department	<u>Parameter</u>	Result	Units
	Ammonia-N	0.0390J	mg/L
	Nitrate-N	1.52	mg/L
	Total Nitrate/Nitrite-N	1.52	mg/L
Client Sample ID: MW6 Lab Sample ID: 1191264005 Waters Department	<u>Parameter</u>	Result	<u>Units</u>
	Ammonia-N	0.149	mg/L
Client Sample ID: MW11 Lab Sample ID: 1191264006 Waters Department	<u>Parameter</u>	Result	Units
	Ammonia-N	0.132	mg/L
Client Sample ID: MW13 Lab Sample ID: 1191264007 Waters Department	Parameter	Result	Units
	Ammonia-N	0.364	mg/L
	Total Kjeldahl Nitrogen	0.783J	mg/L
	Total Nitrate/Nitrite-N	0.0680J	mg/L
Client Sample ID: D1 Lab Sample ID: 1191264008 Waters Department	<u>Parameter</u>	Result	<u>Units</u>
	Ammonia-N	0.108	mg/L

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Client Sample ID: **MW10**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264001
Lab Project ID: 1191264

Collection Date: 03/22/19 09:45 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 1.00 U
 1.00
 1.00
 col/100mL 1
 03/22/19 17:22

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:22 Container ID: 1191264001-A



Client Sample ID: MW10 Client Project ID: Wasilla WWTP Lab Sample ID: 1191264001 Lab Project ID: 1191264

Collection Date: 03/22/19 09:45 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.246	0.200	0.0500	mg/L	1		03/22/19 18:39
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 18:39
Total Nitrate/Nitrite-N	0.279	0.200	0.0500	mg/L	1		03/22/19 18:39

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0 Analyst: DMM

Analytical Date/Time: 03/22/19 18:39 Container ID: 1191264001-B

Prep Batch: WXX12749 Prep Method: METHOD Prep Date/Time: 03/22/19 16:40 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL **Units** DF **Date Analyzed** Limits 03/27/19 13:39 Total Kjeldahl Nitrogen 0.500 U 1.00 0.310 mg/L 1

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:39 Container ID: 1191264001-C

Prep Batch: WXX12751 Prep Method: METHOD Prep Date/Time: 03/26/19 15:24 Prep Initial Wt./Vol.: 25 mL

Prep Extract Vol: 25 mL

<u>Allowable</u> <u>Parameter</u> LOQ/CL DF Result Qual DL **Units** Limits **Date Analyzed** Ammonia-N 0.0655 J 0.0310 0.100 mg/L 1 03/25/19 17:46

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 17:46 Container ID: 1191264001-C

Prep Batch: WXX12745 Prep Method: METHOD Prep Date/Time: 03/25/19 16:30 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL



Client Sample ID: **MW15**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264002
Lab Project ID: 1191264

Collection Date: 03/22/19 10:00 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 100 U
 100
 100
 col/100mL 1
 03/22/19 17:48

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:48 Container ID: 1191264002-A



Client Sample ID: **MW15**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264002
Lab Project ID: 1191264

Collection Date: 03/22/19 10:00 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 20:33
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 20:33
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 20:33

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0 Analyst: DMM

Analytical Date/Time: 03/22/19 20:33 Container ID: 1191264002-B Prep Batch: WXX12749
Prep Method: METHOD
Prep Date/Time: 03/22/19 16:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.916 J	1.00	0.310	mg/L	1		03/27/19 13:41

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:41 Container ID: 1191264002-C Prep Batch: WXX12751 Prep Method: METHOD Prep Date/Time: 03/26/19 15:24 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Ammonia-N	0.222	0.100	0.0310	mg/L	1		03/25/19 17:51

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 17:51 Container ID: 1191264002-C Prep Batch: WXX12745
Prep Method: METHOD
Prep Date/Time: 03/25/19 16:30
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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J flagging is activated



Client Sample ID: B1

Client Project ID: Wasilla WWTP Lab Sample ID: 1191264003 Lab Project ID: 1191264

Collection Date: 03/22/19 10:26 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>Units</u> <u>DF</u> <u>Limits</u>

Date Analyzed Fecal Coliform 1.00 U 1.00 1.00 col/100mL 1 03/22/19 17:22

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:22 Container ID: 1191264003-A



Client Sample ID: B1

Client Project ID: **Wasilla WWTP** Lab Sample ID: 1191264003 Lab Project ID: 1191264 Collection Date: 03/22/19 10:26 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 18:58
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 18:58
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 18:58

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0

Analyst: DMM Analytical Date/Time: 03/22/19 18:58

Analytical Date/Time: 03/22/19 Container ID: 1191264003-B

Prep Batch: WXX12749
Prep Method: METHOD
Prep Date/Time: 03/22/19 16:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		03/27/19 13:42

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:42 Container ID: 1191264003-C Prep Batch: WXX12751 Prep Method: METHOD Prep Date/Time: 03/26/19 15:24 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Ammonia-N	0.130	0.100	0.0310	mg/L	1		03/25/19 17:56

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 17:56 Container ID: 1191264003-C Prep Batch: WXX12745
Prep Method: METHOD
Prep Date/Time: 03/25/19 16:30
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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J flagging is activated



Client Sample ID: B4

Client Project ID: Wasilla WWTP Lab Sample ID: 1191264004 Lab Project ID: 1191264

Collection Date: 03/22/19 11:15 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>Units</u> <u>DF</u> <u>Limits</u>

Date Analyzed Fecal Coliform 1.00 U 1.00 1.00 col/100mL 1 03/22/19 17:22

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:22 Container ID: 1191264004-A



Client Sample ID: B4

Client Project ID: **Wasilla WWTP** Lab Sample ID: 1191264004 Lab Project ID: 1191264 Collection Date: 03/22/19 11:15 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	1.52	0.200	0.0500	mg/L	1		03/22/19 19:17
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 19:17
Total Nitrate/Nitrite-N	1.52	0.200	0.0500	mg/L	1		03/22/19 19:17

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/22/19 19:17 Container ID: 1191264004-B Prep Batch: WXX12749
Prep Method: METHOD
Prep Date/Time: 03/22/19 16:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		03/27/19 13:43

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:43 Container ID: 1191264004-C Prep Batch: WXX12751
Prep Method: METHOD
Prop Data/Time: 02/26/10.1

Prep Date/Time: 03/26/19 15:24 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Ammonia-N	0.0390 J	0.100	0.0310	mg/L	1		03/25/19 17:57

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 17:57 Container ID: 1191264004-C Prep Batch: WXX12745
Prep Method: METHOD
Prep Date/Time: 03/25/19 16:30
Prep Initial Wt./Vol.: 6 mL

Prep Extract Vol: 6 mL



Client Sample ID: MW6

Client Project ID: **Wasilla WWTP** Lab Sample ID: 1191264005 Lab Project ID: 1191264 Collection Date: 03/22/19 11:40 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 1.00 U
 1.00
 1.00
 col/100mL 1
 03/22/19 17:22

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:22 Container ID: 1191264005-A



Client Sample ID: MW6

Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264005
Lab Project ID: 1191264

Collection Date: 03/22/19 11:40 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 19:36
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 19:36
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 19:36

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/22/19 19:36 Container ID: 1191264005-B Prep Batch: WXX12749
Prep Method: METHOD
Prep Date/Time: 03/22/19 16:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		03/27/19 13:45

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:45 Container ID: 1191264005-C Prep Batch: WXX12751 Prep Method: METHOD

Prep Date/Time: 03/26/19 15:24
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Ammonia-N	0.149	0.100	0.0310	mg/L	1		03/25/19 17:59

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 17:59 Container ID: 1191264005-C Prep Batch: WXX12745 Prep Method: METHOD Prep Date/Time: 03/25/19 16:30 Prep Initial Wt./Vol.: 6 mL

Prep Extract Vol: 6 mL

Print Date: 04/03/2019 3:12:56PM

J flagging is activated



Client Sample ID: **MW11**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264006
Lab Project ID: 1191264

Collection Date: 03/22/19 13:30 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 1.00 U
 1.00
 1.00
 col/100mL 1
 03/22/19 17:22

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:22 Container ID: 1191264006-A



Client Sample ID: MW11

Client Project ID: Wasilla WWTP Lab Sample ID: 1191264006 Lab Project ID: 1191264

Collection Date: 03/22/19 13:30 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 19:55
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 19:55
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 19:55

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/22/19 19:55 Container ID: 1191264006-B

Prep Batch: WXX12749 Prep Method: METHOD Prep Date/Time: 03/22/19 16:40 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL **Units** DF **Date Analyzed** Limits 03/27/19 13:46 Total Kjeldahl Nitrogen 0.500 U 1.00 0.310 mg/L 1

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:46 Container ID: 1191264006-C

Prep Batch: WXX12751

Prep Method: METHOD Prep Date/Time: 03/26/19 15:24 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

<u>Allowable</u> <u>Parameter</u> LOQ/CL DF Result Qual DL **Units** Limits **Date Analyzed** Ammonia-N 0.0310 0.132 0.100 mg/L 1 03/25/19 18:01

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 18:01 Container ID: 1191264006-C

Prep Batch: WXX12745 Prep Method: METHOD

Prep Date/Time: 03/25/19 16:30 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

Print Date: 04/03/2019 3:12:56PM

J flagging is activated



Client Sample ID: **MW13**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264007
Lab Project ID: 1191264

Collection Date: 03/22/19 14:19 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 100 U
 100
 100
 col/100mL 1
 03/22/19 17:48

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:48 Container ID: 1191264007-A



Client Sample ID: **MW13**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264007
Lab Project ID: 1191264

Collection Date: 03/22/19 14:19 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 21:30
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 21:30
Total Nitrate/Nitrite-N	0.0680 J	0.200	0.0500	mg/L	1		03/22/19 21:30

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0 Analyst: DMM

Analytical Date/Time: 03/22/19 21:30 Container ID: 1191264007-B

Prep Batch: WXX12749
Prep Method: METHOD
Prep Date/Time: 03/22/19 16:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.783 J	1.00	0.310	mg/L	1		03/27/19 13:47

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:47 Container ID: 1191264007-C Prep Batch: WXX12751 Prep Method: METHOD Prep Date/Time: 03/26/19 15:24 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Ammonia-N	0.364	0.100	0.0310	mg/L	1		03/25/19 18:02

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 18:02 Container ID: 1191264007-C Prep Batch: WXX12745 Prep Method: METHOD Prep Date/Time: 03/25/19 16:30 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL



Client Sample ID: D1

Client Project ID: Wasilla WWTP Lab Sample ID: 1191264008 Lab Project ID: 1191264

Collection Date: 03/22/19 11:40 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL <u>DL</u> <u>Units</u> <u>DF</u> <u>Limits</u>

Date Analyzed Fecal Coliform 1.00 U 1.00 1.00 col/100mL 1 03/22/19 17:22

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Analyst: A.L

Analytical Date/Time: 03/22/19 17:22 Container ID: 1191264008-A



Client Sample ID: D1

Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191264008
Lab Project ID: 1191264

Collection Date: 03/22/19 11:40 Received Date: 03/22/19 15:57 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 20:14
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 20:14
Total Nitrate/Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/22/19 20:14

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/22/19 20:14 Container ID: 1191264008-B Prep Batch: WXX12749
Prep Method: METHOD
Prep Date/Time: 03/22/19 16:40
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		04/03/19 12:15

Batch Information

Analytical Batch: WDA4530 Analytical Method: SM21 4500-N D

Analyst: DMM

Analytical Date/Time: 04/03/19 12:15 Container ID: 1191264008-C Prep Batch: WXX12755

Prep Method: METHOD Prep Date/Time: 04/01/19 09:49 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Ammonia-N	0.108	0.100	0.0310	mg/L	1		03/25/19 18:04

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 18:04 Container ID: 1191264008-C Prep Batch: WXX12745 Prep Method: METHOD Prep Date/Time: 03/25/19 16:30 Prep Initial Wt./Vol.: 6 mL

Prep Extract Vol: 6 mL



Blank ID: MB for HBN 1791890 [BTF/17229]

Blank Lab ID: 1499787

QC for Samples:

1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007, 1191264008

Matrix: Water (Surface, Eff., Ground)

Results by SM21 9222D

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Fecal Coliform
 1.00U
 1.00
 1.00
 col/100mL

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Instrument: Analyst: A.L

Analytical Date/Time: 3/22/2019 5:22:45PM

Print Date: 04/03/2019 3:12:58PM



Blank ID: MB for HBN 1791890 [BTF/17229]

Blank Lab ID: 1499788

QC for Samples:

1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007, 1191264008

Matrix: Water (Surface, Eff., Ground)

Results by SM21 9222D

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Fecal Coliform
 1.00U
 1.00
 1.00
 col/100mL

Batch Information

Analytical Batch: BTF17229 Analytical Method: SM21 9222D

Instrument: Analyst: A.L

Analytical Date/Time: 3/22/2019 5:48:45PM

Print Date: 04/03/2019 3:12:58PM



Blank ID: MB for HBN 1791974 [WXX/12745]

Blank Lab ID: 1500069

QC for Samples:

1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007, 1191264008

Results by SM21 4500-NH3 G

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Ammonia-N
 0.0573J
 0.100
 0.0310
 mg/L

Batch Information

Analytical Batch: WDA4526 Analytical Method: SM21 4500-NH3 G

Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 3/25/2019 5:41:01PM

Prep Batch: WXX12745 Prep Method: METHOD

Prep Date/Time: 3/25/2019 4:30:00PM

Matrix: Water (Surface, Eff., Ground)

Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

Print Date: 04/03/2019 3:13:01PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191264 [WXX12745]

Blank Spike Lab ID: 1500070

Date Analyzed: 03/25/2019 17:42

Spike Duplicate ID: LCSD for HBN 1191264

[WXX12745]

Spike Duplicate Lab ID: 1500071

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007,

1191264008

Results by SM21 4500-NH3 G

Blank Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> Spike Result Rec (%) Spike Rec (%) RPD (%) RPD CL Result Ammonia-N 1.12 112 0.976 98 1 1 (75-125)13.50 (< 25)

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Instrument: Discrete Analyzer 2

Analyst: DMM

Prep Batch: WXX12745
Prep Method: METHOD

Prep Date/Time: 03/25/2019 16:30

Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 04/03/2019 3:13:02PM



Matrix Spike Summary

 Original Sample ID: 1191264001
 Analysis Date: 03/25/2019 17:46

 MS Sample ID: 1500072 MS
 Analysis Date: 03/25/2019 17:47

 MSD Sample ID: 1500073 MSD
 Analysis Date: 03/25/2019 17:49

 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007,

1191264008

Results by SM21 4500-NH3 G

Matrix Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> <u>Sample</u> Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL Ammonia-N 0.0655J 1.00 .968 90 1.00 1.06 100 75-125 9.20 (< 25)

Batch Information

Analytical Batch: WDA4526 Prep Batch: WXX12745

Analytical Method: SM21 4500-NH3 G Prep Method: Ammonia by SM21 4500F prep (W)

Instrument: Discrete Analyzer 2 Prep Date/Time: 3/25/2019 4:30:00PM

Analyst: DMM Prep Initial Wt./Vol.: 6.00mL Analytical Date/Time: 3/25/2019 5:47:41PM Prep Extract Vol: 6.00mL

Print Date: 04/03/2019 3:13:03PM



Blank ID: MB for HBN 1792019 [WXX/12749]

Blank Lab ID: 1500310

QC for Samples:

1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007, 1191264008

Results by EPA 300.0

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

Batch Information

Analytical Batch: WIC5881 Analytical Method: EPA 300.0

Instrument: 930 Metrohm compact IC flex

Analyst: DMM

Analytical Date/Time: 3/22/2019 6:01:00PM

Prep Batch: WXX12749 Prep Method: METHOD

Prep Date/Time: 3/22/2019 4:40:00PM

Matrix: Water (Surface, Eff., Ground)

Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

Print Date: 04/03/2019 3:13:03PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191264 [WXX12749]

Blank Spike Lab ID: 1500311 Date Analyzed: 03/22/2019 18:20

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007,

1191264008

Results by EPA 300.0

	ı	Blank Spike	(mg/L)
<u>Parameter</u>	<u>Spike</u>	Result	Rec (%)
Nitrate-N	5	5.17	103
Nitrite-N	5	5.08	102
Total Nitrate/Nitrite-N	10	10.2	102

Batch Information

Analytical Batch: WIC5881
Analytical Method: EPA 300.0

Instrument: 930 Metrohm compact IC flex

Analyst: DMM

Prep Batch: WXX12749
Prep Method: METHOD

Prep Date/Time: 03/22/2019 16:40

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

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 04/03/2019 3:13:05PM



Matrix Spike Summary

Original Sample ID: 1500321 Analysis Date: 03/23/2019 13:47 MS Sample ID: 1500312 MS Analysis Date: 03/23/2019 14:06 MSD Sample ID: 1500313 MSD Analysis Date: 03/23/2019 14:25

Matrix: Drinking Water

QC for Samples: $1191264001,\,1191264002,\,1191264003,\,1191264004,\,1191264005,\,1191264006,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191264007,\,1191$

1191264008

Results by EPA 300.0

		Matrix Spike (mg/L)			Spike	e Duplicate	e (mg/L)			
<u>Parameter</u>	<u>Sample</u>	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.500U	25.0	26.2	105	25.0	26.2	105	90-110	0.02	(< 15)
Nitrite-N	0.500U	25.0	25.8	103	25.0	25.8	103	90-110	0.00	(< 15)

Batch Information

Analyst: DMM

Analytical Batch: WIC5881 Prep Batch: WXX12749

Analytical Method: EPA 300.0 Prep Method: EPA 300.0 Extraction Waters/Liquids

Instrument: 930 Metrohm compact IC flex Prep Date/Time: 3/22/2019 4:40:00PM

Prep Initial Wt./Vol.: 10.00mL Analytical Date/Time: 3/23/2019 2:06:00PM Prep Extract Vol: 10.00mL

Print Date: 04/03/2019 3:13:06PM



Blank ID: MB for HBN 1792040 [WXX/12751]

Blank Lab ID: 1500401

QC for Samples:

1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007

Results by SM21 4500-N D

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Total Kjeldahl Nitrogen
 0.500U
 1.00
 0.310
 mg/L

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: EWW

Analytical Date/Time: 3/27/2019 1:21:35PM

Prep Batch: WXX12751 Prep Method: METHOD

Prep Date/Time: 3/26/2019 3:24:00PM

Matrix: Water (Surface, Eff., Ground)

Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

Print Date: 04/03/2019 3:13:07PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191264 [WXX12751]

Blank Spike Lab ID: 1500402 Date Analyzed: 03/27/2019 13:22 Spike Duplicate ID: LCSD for HBN 1191264

[WXX12751]

Spike Duplicate Lab ID: 1500403

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007

Results by SM21 4500-N D

Blank Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> Spike Result Rec (%) Spike Rec (%) RPD (%) RPD CL Result Total Kjeldahl Nitrogen 4.26 4 106 3.91 98 4 (75-125)8.50 (< 25)

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: EWW

Prep Batch: WXX12751
Prep Method: METHOD

Prep Date/Time: 03/26/2019 15:24

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

Print Date: 04/03/2019 3:13:09PM



Matrix Spike Summary

 Original Sample ID: 1191211004
 Analysis Date: 03/27/2019 13:32

 MS Sample ID: 1500404 MS
 Analysis Date: 03/27/2019 13:33

 MSD Sample ID: 1500405 MSD
 Analysis Date: 03/27/2019 13:37

 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191264001, 1191264002, 1191264003, 1191264004, 1191264005, 1191264006, 1191264007

Results by SM21 4500-N D

Matrix Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> <u>Sample</u> Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL Total Kjeldahl Nitrogen 0.500U 4.00 3.97 99 4.00 3.97 99 75-125 0.00 (< 25)

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: EWW

Analytical Date/Time: 3/27/2019 1:33:19PM

Prep Batch: WXX12751

Prep Method: Distillation TKN by Phenate (W) Prep Date/Time: 3/26/2019 3:24:00PM

Prep Initial Wt./Vol.: 25.00mL Prep Extract Vol: 25.00mL

Print Date: 04/03/2019 3:13:09PM



Blank ID: MB for HBN 1792252 [WXX/12755]

Blank Lab ID: 1501249

QC for Samples: 1191264008

Matrix: Water (Surface, Eff., Ground)

Results by SM21 4500-N D

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Total Kjeldahl Nitrogen
 0.500U
 1.00
 0.310
 mg/L

Batch Information

Analytical Batch: WDA4530 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 4/3/2019 12:07:32PM

Prep Batch: WXX12755
Prep Method: METHOD

Prep Date/Time: 4/1/2019 9:49:00AM

Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

Print Date: 04/03/2019 3:13:11PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191264 [WXX12755]

Blank Spike Lab ID: 1501250 Date Analyzed: 04/03/2019 12:08 Spike Duplicate ID: LCSD for HBN 1191264

[WXX12755]

Spike Duplicate Lab ID: 1501251 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191264008

Results by SM21 4500-N D

Blank Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> <u>Spike</u> Result Rec (%) Spike Result Rec (%) RPD (%) RPD CL Total Kjeldahl Nitrogen 3.75 4 3.91 4 94 98 (75-125)4.20 (< 25)

Batch Information

Analytical Batch: WDA4530 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: DMM

Prep Batch: **WXX12755**Prep Method: **METHOD**

Prep Date/Time: 04/01/2019 09:49

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

Print Date: 04/03/2019 3:13:12PM



Matrix Spike Summary

Original Sample ID: 1198801004 MS Sample ID: 1501252 MS MSD Sample ID: 1501253 MSD

QC for Samples: 1191264008

Analysis Date: 04/03/2019 12:11 Analysis Date: 04/03/2019 12:12 Analysis Date: 04/03/2019 12:14 Matrix: Water (Surface, Eff., Ground)

Results by SM21 4500-N D

Matrix Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> Sample Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL Total Kjeldahl Nitrogen 1.00U 75-125 4.00 3.57 89 4.00 3.76 94 5.30 (< 25)

Batch Information

Analytical Batch: WDA4530 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 4/3/2019 12:12:47PM

Prep Batch: WXX12755

Prep Method: Distillation TKN by Phenate (W) Prep Date/Time: 4/1/2019 9:49:00AM

Prep Initial Wt./Vol.: 25.00mL Prep Extract Vol: 25.00mL

Print Date: 04/03/2019 3:13:14PM





3S North America Inc. N OF CUSTODY RECORD

Locations Nationwide

Alaska

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New Jersey

New York

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Indiana

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	CLIENT:	nt: Stantec					Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.												
	CONTACT: JAVE AWWYD PHONE NO: 343-5202					Section 3				Preservative								Page of	
	PROJECT PWSID/ NAME: West A WWTP REPORTS TO: E-MAIL: Jake a Wast Staptec.com INVOICE TO: QUOTE #: P.O. #: 204700415				# C O N T A I N	Type C = COMP G = GRAB MI = Multi Incre-	Coliforn Mary	Nitak/Nitrize	TEN (PMMONTER HOSTY										
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	Relinquishe	nd By: (1)	Time 15:57	Received By:					Section 4 DOD Project? Yes No						Data Deliverable Requirements:				
1	Refinquished By: (2) Date			Time	Received By:					Cooler ID: Requested Turnaround Time and/or Special Instructions:									
Section 5	Relinquished By: (3) Date Time Received By:			Temp Blank °C: 17°C 3-2°C Dr								Chain of Custody Seal: (Circle)							
	D			T:	Received Foy Laboratory By:					Temp Blank °C: 3.20 D/1 Chain of Cus						ustody Seal: (Circle)			
	Relinquished By: (4) Date Time Receive $3 2\nu $ (9 15:57				Received Ho	Lapora	tory By:	or Ambient [] INTACT BROKEN ABSEI (See attached Sample Receipt Form) (See attached Sample Receipt F											

] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 56 5301] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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e-Sam<u>ple Receipt Form</u>

SGS Workorder #:

1191264



Review Criteria	Condition (Yes	, No, N/A		Exception	s Noted b	helov	<u> </u>	-
Chain of Custody / Temperature Requi			es Fv	emption permitted				ers
Were Custody Seals intact? Note # &			L X	omption pormitted	ii oumpioi He	aria cal	11100,0011	010.
COC accompanied s								
· ·	· ·							
DOD: Were samples received in COC corresponding					ana abillian i		il	
**Exemption permitted if			_				herm. ID:	D12
Temperature blank compliant* (i.e., 0-6 °C after	er CF)?							DIZ
If samples received without a temperature blank, the "cooler temperature" wi	ill bo	Cooler ID			@		herm. ID:	
documented instead & "COOLER TEMP" will be noted to the right. "ambient" or		Cooler ID			@		herm. ID:	
will be noted if neither is available.		Cooler ID			@		herm. ID:	
***		Cooler ID	:		@	°QT	herm. ID:	
*If >6°C, were samples collected <8 hours	s ago?							
If <0°C, were sample containers ice	e free?							
Note: Identify containers received at non-compliant temperature								
form FS-0029 if more space is r	needed.							
Holding Time / Documentation / Sample Condition R		_	er to forr	m F-083 "Sample (Guide" for sp	ecific h	holding tin	nes.
Were samples received within holdin	ig time?							
Do samples match COC** (i.e.,sample IDs,dates/times colle								
**Note: If times differ <1hr, record details & login per C								
***Note: If sample information on containers differs from COC, SGS will default to								
Were analytical requests clear? (i.e., method is specified for a								
with multiple option for analysis (Ex: BTEX,	Metals)							
			***	Exemption permitte	ed for metals	e.g,2	200.8/6020	<u>)A).</u>
Were proper containers (type/mass/volume/preservative***	*)used? Yes							
Volatile / LL-Hg Req								
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with sa								
Were all water VOA vials free of headspace (i.e., bubbles ≤								
Were all soil VOAs field extracted with MeOH	H+BFB? N/A							
Note to Client: Any "No", answer above indicates no	on-compliance	with standa	ard proc	edures and may ir	npact data qu	uality.		
۸ ما ما ناه ۱ م	al notae (if	appliachte	,)·					
Additiona	al notes (if	applicable	;).					



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> <u>Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> <u>Condition</u>
1191264001-A	No Preservative Required	ОК			
1191264001-B	No Preservative Required	OK			
1191264001-C	No Preservative Required	ОК			
1191264002-A	No Preservative Required	OK			
1191264002-B	No Preservative Required	OK			
1191264002-C	No Preservative Required	OK			
1191264003-A	No Preservative Required	OK			
1191264003-B	No Preservative Required	OK			
1191264003-C	No Preservative Required	OK			
1191264004-A	No Preservative Required	OK			
1191264004-B	No Preservative Required	OK			
1191264004-C	No Preservative Required	OK			
1191264005-A	No Preservative Required	OK			
1191264005-B	No Preservative Required	OK			
1191264005-C	No Preservative Required	OK			
1191264006-A	No Preservative Required	OK			
1191264006-B	No Preservative Required	OK			
1191264006-C	No Preservative Required	OK			
1191264007-A	No Preservative Required	OK			
1191264007-B	No Preservative Required	OK			
1191264007-C	No Preservative Required	OK			
1191264008-A	No Preservative Required	OK			
1191264008-B	No Preservative Required	OK			
1191264008-C	No Preservative Required	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.

- $\ensuremath{\mathsf{OK}}$ 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.

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Laboratory Report of Analysis

To: Stantec Consulting Services Inc.

725 East Fireweed Lane Suite 200 Anchorage, AK 99503 (907)248-8883

Report Number: 1191289

Client Project: Wasilla WWTP

Dear John Marshall,

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

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

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

Sincerely, SGS North America Inc.

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

Print Date: 04/15/2019 3:58:01PM Results via Engage



Case Narrative

SGS Client: **Stantec Consulting Services Inc.**SGS Project: **1191289**

Project Name/Site: Wasilla WWTP
Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

MW20 (1191289001) PS

9222D- Fecal coliform sample has elevated detection limit due to matrix interference, sample had very heavy sediment.

MW14B (1191289003) PS

9222D- Fecal coliform sample has elevated detection limit due to matrix interference, sample had very heavy sediment.

1191267001MSD (1500883) MSD

4500NH3-G - Ammonia - MSD recovery is outside of QC criteria. Refer to LCSD 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: 04/15/2019 3:58:02PM



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, indenmification and jurisdiction issues defined therein.

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). 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.

Print Date: 04/15/2019 3:58:05PM

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



Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
MW20	1191289001	03/25/2019	03/25/2019	Water (Surface, Eff., Ground)
MW14A	1191289002	03/25/2019	03/25/2019	Water (Surface, Eff., Ground)
MW14B	1191289003	03/25/2019	03/25/2019	Water (Surface, Eff., Ground)
SW17	1191289004	03/25/2019	03/25/2019	Water (Surface, Eff., Ground)
SW18	1191289005	03/25/2019	03/25/2019	Water (Surface, Eff., Ground)
D2	1191289006	03/25/2019	03/25/2019	Water (Surface, Eff., Ground)

Method Description

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: 04/15/2019 3:58:05PM



Detectable	Results	Summary
------------	---------	---------

Client Sample ID: MW20			
Lab Sample ID: 1191289001	<u>Parameter</u>	Result	<u>Units</u>
Waters Department	Ammonia-N	0.717	mg/L
	Nitrate-N	0.241	mg/L
	Total Kjeldahl Nitrogen	1.05	mg/L
	Total Nitrate/Nitrite-N	0.241	mg/L
Client Sample ID: MW14A			
Lab Sample ID: 1191289002	Parameter	Result	Units
Microbiology Laboratory	Fecal Coliform	1.0	col/100mL
Waters Department	Ammonia-N	0.0809J	mg/L
•	Nitrate-N	0.0600J	mg/L
	Total Nitrate/Nitrite-N	0.0600J	mg/L
Client Sample ID: MW14B			
Lab Sample ID: 1191289003	Parameter	Result	Units
Waters Department	Nitrate-N	0.0610J	mg/L
	Total Nitrate/Nitrite-N	0.0800J	mg/L
Client Sample ID: SW17			
Lab Sample ID: 1191289004	Parameter	Result	Units
Microbiology Laboratory	E. Coli	35	MPN/100mL
Microbiology Euboratory	Fecal Coliform	31	col/100mL
	Total Coliform	96	MPN/100mL
Waters Department	Ammonia-N	0.252	mg/L
Waters Department	Nitrate-N	1.28	mg/L
	Total Kjeldahl Nitrogen	0.451J	mg/L
	Total Nitrate/Nitrite-N	1.30	mg/L
	Total Phosphorus	0.0753	mg/L
	Total Suspended Solids	1.44	mg/L
Client Cample ID: CW49			g
Client Sample ID: SW18 Lab Sample ID: 1191289005	Damanatan	Desuit	11-4-
•	Parameter	<u>Result</u> 3.45	<u>Units</u>
Microbiology Laboratory	Biochemical Oxygen Demand E. Coli	3.45 10	mg/L MPN/100mL
	Fecal Coliform	8.0	
			col/100mL
	Total Coliform	109	MPN/100mL
Waters Department	Ammonia-N	1.89	mg/L
	Nitrate-N	2.17	mg/L
	Total Kjeldahl Nitrogen	3.20	mg/L
	Total Dhasaharus	2.20	mg/L
	Total Phosphorus	1.91	mg/L
	Total Suspended Solids	16.0	mg/L

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Detectable Results Summary

Client Sample ID: D2			
Lab Sample ID: 1191289006	<u>Parameter</u>	Result	<u>Units</u>
Microbiology Laboratory	Biochemical Oxygen Demand	2.45	mg/L
	E. Coli	16	MPN/100mL
	Fecal Coliform	3.0	col/100mL
	Total Coliform	115	MPN/100mL
Waters Department	Ammonia-N	2.37	mg/L
	Nitrate-N	2.08	mg/L
	Total Nitrate/Nitrite-N	2.11	mg/L
	Total Phosphorus	1.78	mg/L
	Total Suspended Solids	12.7	mg/L

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Client Sample ID: **MW20**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191289001
Lab Project ID: 1191289

Collection Date: 03/25/19 12:19 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 100 U
 100
 100
 col/100mL 1
 03/25/19 17:40

Batch Information

Analytical Batch: BTF17234 Analytical Method: SM21 9222D

Analyst: VDL

Analytical Date/Time: 03/25/19 17:40 Container ID: 1191289001-B

Print Date: 04/15/2019 3:58:08PM J flagging is activated



Client Sample ID: **MW20**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191289001
Lab Project ID: 1191289

Collection Date: 03/25/19 12:19 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.241	0.200	0.0500	mg/L	1		03/25/19 22:01
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/25/19 22:01
Total Nitrate/Nitrite-N	0.241	0.200	0.0500	mg/L	1		03/25/19 22:01

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/25/19 22:01 Container ID: 1191289001-A Prep Batch: WXX12750 Prep Method: METHOD

Prep Date/Time: 03/25/19 15:05 Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	1.05	1.00	0.310	mg/L	1		03/27/19 13:52

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:52 Container ID: 1191289001-C Prep Batch: WXX12751

Prep Method: METHOD
Prep Date/Time: 03/26/19 15:24
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Ammonia-N	0.717	0.100	0.0310	mg/L	1		04/01/19 14:53

Batch Information

Analytical Batch: WDA4529

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 04/01/19 14:53 Container ID: 1191289001-C Prep Batch: WXX12752 Prep Method: METHOD Prep Date/Time: 04/01/19 12:45

Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

Print Date: 04/15/2019 3:58:08PM

J flagging is activated



Results of MW14A

Client Sample ID: **MW14A**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191289002
Lab Project ID: 1191289

Collection Date: 03/25/19 13:12 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 1.0
 1.00
 1.00
 col/100mL 1
 03/25/19 17:40

Batch Information

Analytical Batch: BTF17234 Analytical Method: SM21 9222D

Analyst: VDL

Analytical Date/Time: 03/25/19 17:40 Container ID: 1191289002-B

Print Date: 04/15/2019 3:58:08PM J flagging is activated



Results of MW14A

Client Sample ID: **MW14A**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191289002
Lab Project ID: 1191289

Collection Date: 03/25/19 13:12 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.0600 J	0.200	0.0500	mg/L	1		03/25/19 20:26
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/25/19 20:26
Total Nitrate/Nitrite-N	0.0600 J	0.200	0.0500	mg/L	1		03/25/19 20:26

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/25/19 20:26 Container ID: 1191289002-A Prep Batch: WXX12750 Prep Method: METHOD Prep Date/Time: 03/25/19 15:05

Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		03/27/19 13:53

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:53 Container ID: 1191289002-C Prep Batch: WXX12751 Prep Method: METHOD Prep Date/Time: 03/26/19 15:24 Prep Initial Wt./Vol.: 25 mL

Prep Extract Vol: 25 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DF DL **Units** Limits **Date Analyzed** Ammonia-N 0.0809 J 0.0310 0.100 mg/L 1 03/25/19 18:17

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 18:17 Container ID: 1191289002-C Prep Batch: WXX12745
Prep Method: METHOD
Prep Date/Time: 03/25/19 16:30
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 04/15/2019 3:58:08PM

J flagging is activated



Results of MW14B

Client Sample ID: **MW14B**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191289003
Lab Project ID: 1191289

Collection Date: 03/25/19 13:33 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 200 U
 200
 200
 col/100mL 1
 03/25/19 17:40

Batch Information

Analytical Batch: BTF17234 Analytical Method: SM21 9222D

Analyst: VDL

Analytical Date/Time: 03/25/19 17:40 Container ID: 1191289003-B

Print Date: 04/15/2019 3:58:08PM J flagging is activated



Results of MW14B

Client Sample ID: **MW14B**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191289003
Lab Project ID: 1191289

Collection Date: 03/25/19 13:33 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	0.0610 J	0.200	0.0500	mg/L	1		03/25/19 20:45
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/25/19 20:45
Total Nitrate/Nitrite-N	0.0800 J	0.200	0.0500	mg/L	1		03/25/19 20:45

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/25/19 20:45 Container ID: 1191289003-A Prep Batch: WXX12750
Prep Method: METHOD
Prep Date/Time: 03/25/19 15:05
Prep Initial Wt./Vol.: 10 mL

Prep Extract Vol: 10 mL

Print Date: 04/15/2019 3:58:08PM J flagging is activated



Client Sample ID: SW17

Client Project ID: Wasilla WWTP Lab Sample ID: 1191289004 Lab Project ID: 1191289 Collection Date: 03/25/19 14:03 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL <u>Units</u> <u>DF</u> Date Analyzed **Limits** Biochemical Oxygen Demand 2.00 U 2.00 2.00 mg/L 1 03/26/19 13:10

Batch Information

Analytical Batch: BOD6266 Analytical Method: SM21 5210B

Analyst: A.L

Analytical Date/Time: 03/26/19 13:10 Container ID: 1191289004-E

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 31
 1.00
 1.00
 col/100mL 1
 03/25/19 17:40

Batch Information

Analytical Batch: BTF17234 Analytical Method: SM21 9222D

Analyst: VDL

Analytical Date/Time: 03/25/19 17:40 Container ID: 1191289004-B

					Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u> <u>DF</u>	<u>Limits</u>	Date Analyzed
E. Coli	35	1	1	MPN/100m1		03/25/19 17:37
Total Coliform	96	1	1	MPN/100rr1		03/25/19 17:37

Batch Information

Analytical Batch: BTF17232 Analytical Method: SM21 9223B

Analyst: DSH

Analytical Date/Time: 03/25/19 17:37 Container ID: 1191289004-C

Print Date: 04/15/2019 3:58:08PM

J flagging is activated



Client Sample ID: SW17

Client Project ID: **Wasilla WWTP** Lab Sample ID: 1191289004 Lab Project ID: 1191289 Collection Date: 03/25/19 14:03 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	1.28	0.200	0.0500	mg/L	1		03/25/19 21:04
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/25/19 21:04
Total Nitrate/Nitrite-N	1.30	0.200	0.0500	mg/L	1		03/25/19 21:04

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/25/19 21:04 Container ID: 1191289004-A Prep Batch: WXX12750
Prep Method: METHOD
Prep Date/Time: 03/25/19 15:05

Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Suspended Solids	1.44	1.03	0.320	mg/L	1		03/26/19 16:46

Batch Information

Analytical Batch: STS6203 Analytical Method: SM21 2540D

Analyst: EWW

Analytical Date/Time: 03/26/19 16:46 Container ID: 1191289004-F

						Allowable	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kjeldahl Nitrogen	0.451 J	1.00	0.310	mg/L	1		03/27/19 13:55

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:55 Container ID: 1191289004-D Prep Batch: WXX12751
Prep Method: METHOD
Prep Date/Time: 03/26/19 15:24
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL **Units** DF Limits Date Analyzed 0.252 0.100 Ammonia-N 0.0310 mg/L 1 04/01/19 14:55

Print Date: 04/15/2019 3:58:08PM

J flagging is activated



Client Sample ID: SW17

Client Project ID: Wasilla WWTP Lab Sample ID: 1191289004 Lab Project ID: 1191289

Collection Date: 03/25/19 14:03 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4529

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 04/01/19 14:55 Container ID: 1191289004-D

Prep Batch: WXX12752 Prep Method: METHOD Prep Date/Time: 04/01/19 12:45 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

<u>Allowable</u> Parameter Result Qual LOQ/CL Units <u>DF</u> Date Analyzed DL <u>Limits</u> Total Phosphorus 0.0753 0.0200 0.00500 mg/L 1 04/04/19 13:12

Batch Information

Analytical Batch: WDA4532 Analytical Method: SM21 4500P-B,E

Analyst: DMM

Analytical Date/Time: 04/04/19 13:12 Container ID: 1191289004-D

Prep Batch: WXX12757 Prep Method: SM21 4500P-B,E Prep Date/Time: 04/04/19 10:35 Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

Print Date: 04/15/2019 3:58:08PM J flagging is activated



Client Sample ID: **SW18**Client Project ID: **Wasilla WWTP**Lab Sample ID: 1191289005
Lab Project ID: 1191289

Collection Date: 03/25/19 14:23 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

Allowable <u>Parameter</u> Result Qual LOQ/CL DL <u>Units</u> <u>DF</u> Date Analyzed **Limits** Biochemical Oxygen Demand 3.45 2.00 2.00 mg/L 1 03/26/19 13:10

Batch Information

Analytical Batch: BOD6266 Analytical Method: SM21 5210B

Analyst: A.L

Analytical Date/Time: 03/26/19 13:10 Container ID: 1191289005-E

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 8.0
 1.00
 1.00
 col/100mL 1
 03/25/19 17:40

Batch Information

Analytical Batch: BTF17234 Analytical Method: SM21 9222D

Analyst: VDL

Analytical Date/Time: 03/25/19 17:40 Container ID: 1191289005-B

Allowable LOQ/CL Parameter Result Qual DL Units DF **Date Analyzed** Limits E. Coli 10 1 MPN/100rr 1 03/25/19 17:37 1 **Total Coliform** 109 1 1 MPN/100n 1 03/25/19 17:37

Batch Information

Analytical Batch: BTF17232 Analytical Method: SM21 9223B

Analyst: DSH

Analytical Date/Time: 03/25/19 17:37 Container ID: 1191289005-C

Print Date: 04/15/2019 3:58:08PM

J flagging is activated



Client Sample ID: SW18

Client Project ID: **Wasilla WWTP** Lab Sample ID: 1191289005 Lab Project ID: 1191289 Collection Date: 03/25/19 14:23 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	2.17	0.200	0.0500	mg/L	1		03/25/19 21:23
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/25/19 21:23
Total Nitrate/Nitrite-N	2.20	0.200	0.0500	mg/L	1		03/25/19 21:23

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/25/19 21:23 Container ID: 1191289005-A Prep Batch: WXX12750
Prep Method: METHOD
Prep Date/Time: 03/25/19 15:05
Prep Initial Wt./Vol.: 10 mL

Prep Extract Vol: 10 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL <u>Units</u> DF Date Analyzed Limits **Total Suspended Solids** 16.0 0.341 1 03/26/19 16:46 1.10 mg/L

Batch Information

Analytical Batch: STS6203 Analytical Method: SM21 2540D

Analyst: EWW

Analytical Date/Time: 03/26/19 16:46 Container ID: 1191289005-F

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Total Kieldahl Nitrogen	3.20	1.00	0.310	ma/L	1		03/27/19 13:56

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:56 Container ID: 1191289005-D Prep Batch: WXX12751
Prep Method: METHOD
Prep Date/Time: 03/26/19 15:24
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL **Units** DF Limits **Date Analyzed** 1.89 Ammonia-N 0.100 0.0310 mg/L 1 03/25/19 18:21

Print Date: 04/15/2019 3:58:08PM

J flagging is activated



Client Sample ID: SW18 Client Project ID: Wasilla WWTP Lab Sample ID: 1191289005 Lab Project ID: 1191289

Collection Date: 03/25/19 14:23 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4526 Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 18:21 Container ID: 1191289005-D

Prep Batch: WXX12745 Prep Method: METHOD Prep Date/Time: 03/25/19 16:30 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

<u>Allowable</u> Parameter Result Qual LOQ/CL Units <u>DF</u> Date Analyzed DL <u>Limits</u> Total Phosphorus 1.91 0.200 0.0500 mg/L 1 04/04/19 14:29

Batch Information

Analytical Batch: WDA4532 Analytical Method: SM21 4500P-B,E

Analyst: DMM

Analytical Date/Time: 04/04/19 14:29 Container ID: 1191289005-D

Prep Batch: WXX12757 Prep Method: SM21 4500P-B,E Prep Date/Time: 04/04/19 13:31 Prep Initial Wt./Vol.: 2.5 mL Prep Extract Vol: 25 mL

Print Date: 04/15/2019 3:58:08PM J flagging is activated



Results of D2

Client Sample ID: D2

Client Project ID: **Wasilla WWTP** Lab Sample ID: 1191289006 Lab Project ID: 1191289 Collection Date: 03/25/19 14:23 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Microbiology Laboratory

Allowable <u>Parameter</u> Result Qual LOQ/CL DL <u>Units</u> <u>DF</u> Date Analyzed **Limits** Biochemical Oxygen Demand 2.45 2.00 2.00 mg/L 1 03/26/19 13:10

Batch Information

Analytical Batch: BOD6266 Analytical Method: SM21 5210B

Analyst: A.L

Analytical Date/Time: 03/26/19 13:10 Container ID: 1191289006-E

 Parameter
 Result Qual
 LOQ/CL
 DL
 Units
 DF
 Limits
 Date Analyzed

 Fecal Coliform
 3.0
 1.00
 1.00
 col/100mL 1
 03/25/19 17:40

Batch Information

Analytical Batch: BTF17234 Analytical Method: SM21 9222D

Analyst: VDL

Analytical Date/Time: 03/25/19 17:40 Container ID: 1191289006-B

Allowable LOQ/CL Parameter Result Qual DL Units DF **Date Analyzed** Limits E. Coli 16 1 MPN/100rr 1 03/25/19 17:37 1 **Total Coliform** 115 1 1 MPN/100n 1 03/25/19 17:37

Batch Information

Analytical Batch: BTF17232 Analytical Method: SM21 9223B

Analyst: DSH

Analytical Date/Time: 03/25/19 17:37 Container ID: 1191289006-C

Print Date: 04/15/2019 3:58:08PM

J flagging is activated



Results of D2

Client Sample ID: D2

Client Project ID: **Wasilla WWTP** Lab Sample ID: 1191289006 Lab Project ID: 1191289 Collection Date: 03/25/19 14:23 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

						<u>Allowable</u>	
<u>Parameter</u>	Result Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Limits</u>	Date Analyzed
Nitrate-N	2.08	0.200	0.0500	mg/L	1		03/25/19 21:42
Nitrite-N	0.100 U	0.200	0.0500	mg/L	1		03/25/19 21:42
Total Nitrate/Nitrite-N	2.11	0.200	0.0500	mg/L	1		03/25/19 21:42

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Analyst: DMM

Analytical Date/Time: 03/25/19 21:42 Container ID: 1191289006-A Prep Batch: WXX12750
Prep Method: METHOD
Prep Date/Time: 03/25/19 15:05
Prep Initial Wt./Vol.: 10 mL

Prep Extract Vol: 10 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL <u>Units</u> DF Date Analyzed Limits **Total Suspended Solids** 12.7 1.05 0.326 03/26/19 16:46 mg/L 1

Batch Information

Analytical Batch: STS6203 Analytical Method: SM21 2540D

Analyst: EWW

Analytical Date/Time: 03/26/19 16:46 Container ID: 1191289006-F

<u>Allowable</u> DF **Parameter** Result Qual LOQ/CL DL **Units** Limits **Date Analyzed** Total Kjeldahl Nitrogen 0.500 U 0.310 1.00 mg/L 1 03/27/19 13:57

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D

Analyst: EWW

Analytical Date/Time: 03/27/19 13:57 Container ID: 1191289006-D Prep Batch: WXX12751
Prep Method: METHOD
Prep Date/Time: 03/26/19 15:24
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

<u>Allowable</u> <u>Parameter</u> Result Qual LOQ/CL DL **Units** DF Limits **Date Analyzed** Ammonia-N 2.37 0.100 0.0310 mg/L 1 03/25/19 18:22

Print Date: 04/15/2019 3:58:08PM

J flagging is activated

SGS North America Inc.

200 West Potter Drive Anchorage, AK 95518 t 907.562.2343 f 907.561.5301 www.us.sgs.com



Results of D2

Client Sample ID: D2

Client Project ID: Wasilla WWTP Lab Sample ID: 1191289006 Lab Project ID: 1191289

Collection Date: 03/25/19 14:23 Received Date: 03/25/19 16:11 Matrix: Water (Surface, Eff., Ground)

Solids (%): Location:

Results by Waters Department

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Analyst: DMM

Analytical Date/Time: 03/25/19 18:22 Container ID: 1191289006-D

Prep Batch: WXX12745 Prep Method: METHOD Prep Date/Time: 03/25/19 16:30 Prep Initial Wt./Vol.: 6 mL

Prep Extract Vol: 6 mL

<u>Allowable</u> Parameter Result Qual LOQ/CL Units <u>DF</u> Date Analyzed DL <u>Limits</u> Total Phosphorus 1.78 0.200 0.0500 mg/L 1 04/04/19 14:29

Batch Information

Analytical Batch: WDA4532 Analytical Method: SM21 4500P-B,E

Analyst: DMM

Analytical Date/Time: 04/04/19 14:29 Container ID: 1191289006-D

Prep Batch: WXX12757 Prep Method: SM21 4500P-B,E Prep Date/Time: 04/04/19 13:31 Prep Initial Wt./Vol.: 2.5 mL Prep Extract Vol: 25 mL

Print Date: 04/15/2019 3:58:08PM J flagging is activated



Blank ID: MB for HBN 1791978 [BOD/6266]

Blank Lab ID: 1500116

QC for Samples:

1191289004, 1191289005, 1191289006

Matrix: Water (Surface, Eff., Ground)

Results by SM21 5210B

ParameterResultsLOQ/CLDLUnitsBiochemical Oxygen Demand2.00U2.002.00mg/L

Batch Information

Analytical Batch: BOD6266 Analytical Method: SM21 5210B

Instrument: Analyst: A.L

Analytical Date/Time: 3/26/2019 1:10:00PM

Print Date: 04/15/2019 3:58:11PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191289 [BOD6266]

Blank Spike Lab ID: 1500117 Date Analyzed: 03/26/2019 13:10

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289004, 1191289005, 1191289006

Results by SM21 5210B

Blank Spike (mg/L)

<u>Parameter</u> <u>Spike</u> <u>Result</u> <u>Rec (%)</u> <u>CL</u>

Biochemical Oxygen Demand 198 210 **106** (84.6-115.4

Batch Information

Analytical Batch: BOD6266
Analytical Method: SM21 5210B

Instrument: Analyst: A.L

Print Date: 04/15/2019 3:58:12PM



Blank ID: MB for HBN 1791946 [BTF/17232]

Blank Lab ID: 1499964

QC for Samples:

1191289004, 1191289005, 1191289006

Matrix: Water (Surface, Eff., Ground)

Results by SM21 9223B

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

Batch Information

Analytical Batch: BTF17232 Analytical Method: SM21 9223B

Instrument: Analyst: DSH

Analytical Date/Time: 3/25/2019 5:37:17PM

Print Date: 04/15/2019 3:58:14PM



Blank ID: MB for HBN 1791948 [BTF/17234]

Blank Lab ID: 1499970

QC for Samples:

 $1191289001,\,1191289002,\,1191289003,\,1191289004,\,1191289005,\,1191289006$

Results by SM21 9222D

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Fecal Coliform
 1.00U
 1.00
 1.00
 col/100mL

Matrix: Water (Surface, Eff., Ground)

Batch Information

Analytical Batch: BTF17234 Analytical Method: SM21 9222D

Instrument: Analyst: VDL

Analytical Date/Time: 3/25/2019 5:40:56PM

Print Date: 04/15/2019 3:58:15PM



Blank ID: MB for HBN 1791976 [STS/6203]

Blank Lab ID: 1500109

QC for Samples:

1191289004, 1191289005, 1191289006

Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540D

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Total Suspended Solids
 0.500U
 1.00
 0.310
 mg/L

Batch Information

Analytical Batch: STS6203 Analytical Method: SM21 2540D

Instrument: Analyst: EWW

Analytical Date/Time: 3/26/2019 4:46:52PM

Print Date: 04/15/2019 3:58:19PM



Duplicate Sample Summary

Original Sample ID: 1191288003 Duplicate Sample ID: 1500113

QC for Samples:

1191289004, 1191289005, 1191289006

Analysis Date: 03/26/2019 16:46 Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540D

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	RPD (%)	RPD CL
Total Suspended Solids	117	111	mg/L	4.90	(< 5)

Batch Information

Analytical Batch: STS6203 Analytical Method: SM21 2540D

Instrument: Analyst: EWW

Print Date: 04/15/2019 3:58:20PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191289 [STS6203]

Blank Spike Lab ID: 1500110 Date Analyzed: 03/26/2019 16:46 Spike Duplicate ID: LCSD for HBN 1191289

[STS6203]

Spike Duplicate Lab ID: 1500111 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289004, 1191289005, 1191289006

Results by SM21 2540D

Blank Spike (mg/L) Spike Duplicate (mg/L) <u>Parameter</u> Spike Result Rec (%) Spike Result Rec (%) RPD (%) RPD CL Total Suspended Solids 25.2 25 25.6 25 101 102 (75-125) 1.60 (< 5)

Batch Information

Analytical Batch: STS6203
Analytical Method: SM21 2540D

Instrument: Analyst: **EWW**

Print Date: 04/15/2019 3:58:21PM



Blank ID: MB for HBN 1791974 [WXX/12745]

Blank Lab ID: 1500069

QC for Samples:

1191289002, 1191289005, 1191289006

Matrix: Water (Surface, Eff., Ground)

Results by SM21 4500-NH3 G

 Parameter
 Results
 LOQ/CL

 Ammonia-N
 0.0573J
 0.100

 LOQ/CL
 DL
 Units

 0.100
 0.0310
 mg/L

Batch Information

Analytical Batch: WDA4526 Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 3/25/2019 5:41:01PM

Prep Batch: WXX12745
Prep Method: METHOD

Prep Date/Time: 3/25/2019 4:30:00PM

Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

Print Date: 04/15/2019 3:58:22PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191289 [WXX12745]

Blank Spike Lab ID: 1500070 Date Analyzed: 03/25/2019 17:42 Spike Duplicate ID: LCSD for HBN 1191289

[WXX12745]

Spike Duplicate Lab ID: 1500071 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289002, 1191289005, 1191289006

Results by SM21 4500-NH3 G

Blank Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> Rec (%) <u>Spike</u> Result Rec (%) Spike RPD (%) RPD CL Result Ammonia-N 0.976 1.12 112 98 1 1 (75-125)13.50 (< 25)

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G

Instrument: Discrete Analyzer 2

Analyst: DMM

Prep Batch: WXX12745
Prep Method: METHOD

Prep Date/Time: 03/25/2019 16:30

Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 04/15/2019 3:58:24PM



Matrix Spike Summary

Original Sample ID: 1191264001 MS Sample ID: 1500072 MS MSD Sample ID: 1500073 MSD Analysis Date: 03/25/2019 17:46 Analysis Date: 03/25/2019 17:47 Analysis Date: 03/25/2019 17:49 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289002, 1191289005, 1191289006

Results by SM21 4500-NH3 G

Matrix Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> <u>Sample</u> Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL Ammonia-N 0.0655J 100 75-125 1.00 .968 90 1.00 1.06 9.20 (< 25)

Batch Information

Analytical Batch: WDA4526

Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 3/25/2019 5:47:41PM

Prep Batch: WXX12745

Prep Method: Ammonia by SM21 4500F prep (W)

Prep Date/Time: 3/25/2019 4:30:00PM

Prep Initial Wt./Vol.: 6.00mL Prep Extract Vol: 6.00mL

Print Date: 04/15/2019 3:58:25PM



Blank ID: MB for HBN 1792021 [WXX/12750]

Blank Lab ID: 1500325

QC for Samples:

 $1191289001,\,1191289002,\,1191289003,\,1191289004,\,1191289005,\,1191289006$

Results by EPA 300.0

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

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Instrument: 930 Metrohm compact IC flex

Analyst: DMM

Analytical Date/Time: 3/25/2019 7:48:00PM

Prep Batch: WXX12750 Prep Method: METHOD

Prep Date/Time: 3/25/2019 3:05:00PM

Matrix: Water (Surface, Eff., Ground)

Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL

Print Date: 04/15/2019 3:58:25PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191289 [WXX12750]

Blank Spike Lab ID: 1500326 Date Analyzed: 03/25/2019 20:07

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289001, 1191289002, 1191289003, 1191289004, 1191289005, 1191289006

Results by EPA 300.0

Blank Spike	(mg/L)
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<u>Parameter</u>	<u>Spike</u>	Result	Rec (%)	CL
Nitrate-N	5	4.95	99	(90-110)
Nitrite-N	5	5.03	101	(90-110)
Total Nitrate/Nitrite-N	10	9.98	100	(90-110)

Batch Information

Analytical Batch: WIC5882 Analytical Method: EPA 300.0

Instrument: 930 Metrohm compact IC flex

Analyst: DMM

Prep Batch: **WXX12750**Prep Method: **METHOD**

Prep Date/Time: 03/25/2019 15:05

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

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 04/15/2019 3:58:26PM



Matrix Spike Summary

 Original Sample ID: 1500330
 Analysis Date: 03/25/2019 22:58

 MS Sample ID: 1500327 MS
 Analysis Date: 03/26/2019 9:11

 MSD Sample ID: 1500328 MSD
 Analysis Date: 03/26/2019 9:30

 Matrix Matrix

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289001, 1191289002, 1191289003, 1191289004, 1191289005, 1191289006

Results by EPA 300.0

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
<u>Parameter</u>	<u>Sample</u>	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.518	5.00	5.46	99	5.00	5.50	100	90-110	0.73	(< 15)
Nitrite-N	0.100U	5.00	5.05	101	5.00	4.99	100	90-110	1.20	(< 15)

Batch Information

Analytical Batch: WIC5882 Prep Batch: WXX12750

Analytical Method: EPA 300.0 Prep Method: EPA 300.0 Extraction Waters/Liquids

Instrument: 930 Metrohm compact IC flex Prep Date/Time: 3/25/2019 3:05:00PM

Analyst: DMM Prep Initial Wt./Vol.: 10.00mL Analytical Date/Time: 3/26/2019 9:11:00AM Prep Extract Vol: 10.00mL

Print Date: 04/15/2019 3:58:28PM



Method Blank

Blank ID: MB for HBN 1792040 [WXX/12751]

Blank Lab ID: 1500401

QC for Samples:

1191289001, 1191289002, 1191289004, 1191289005, 1191289006

Matrix: Water (Surface, Eff., Ground)

Results by SM21 4500-N D

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Total Kjeldahl Nitrogen
 0.500U
 1.00
 0.310
 mg/L

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: EWW

Analytical Date/Time: 3/27/2019 1:21:35PM

Prep Batch: WXX12751 Prep Method: METHOD

Prep Date/Time: 3/26/2019 3:24:00PM

Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

Print Date: 04/15/2019 3:58:28PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191289 [WXX12751]

Blank Spike Lab ID: 1500402 Date Analyzed: 03/27/2019 13:22

Spike Duplicate ID: LCSD for HBN 1191289

[WXX12751]

Spike Duplicate Lab ID: 1500403

Matrix: Water (Surface, Eff., Ground)

1191289001, 1191289002, 1191289004, 1191289005, 1191289006 QC for Samples:

Results by SM21 4500-N D

Blank Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> Rec (%) <u>Spike</u> Result Rec (%) <u>Spike</u> RPD (%) RPD CL Result Total Kjeldahl Nitrogen 4.26 4 106 3.91 98 4 (75-125)8.50 (< 25)

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: EWW

Prep Batch: WXX12751 Prep Method: METHOD

Prep Date/Time: 03/26/2019 15:24

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

Print Date: 04/15/2019 3:58:31PM



Matrix Spike Summary

 Original Sample ID: 1191211004
 Analysis Date: 03/27/2019 13:32

 MS Sample ID: 1500404 MS
 Analysis Date: 03/27/2019 13:33

 MSD Sample ID: 1500405 MSD
 Analysis Date: 03/27/2019 13:37

 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289001, 1191289002, 1191289004, 1191289005, 1191289006

Results by SM21 4500-N D

Matrix Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> <u>Sample</u> Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL Total Kjeldahl Nitrogen 0.500U 75-125 4.00 3.97 99 4.00 3.97 99 0.00 (< 25)

Batch Information

Analytical Batch: WDA4528 Analytical Method: SM21 4500-N D Instrument: Discrete Analyzer 2

Analyst: EWW

Analytical Date/Time: 3/27/2019 1:33:19PM

Prep Batch: WXX12751

Prep Method: Distillation TKN by Phenate (W) Prep Date/Time: 3/26/2019 3:24:00PM

Prep Initial Wt./Vol.: 25.00mL Prep Extract Vol: 25.00mL

Print Date: 04/15/2019 3:58:31PM



Method Blank

Blank ID: MB for HBN 1792173 [WXX/12752]

Blank Lab ID: 1500879

QC for Samples:

1191289001, 1191289004

Matrix: Water (Surface, Eff., Ground)

<u>Units</u>

mg/L

Results by SM21 4500-NH3 G

 Parameter
 Results
 LOQ/CL
 DL

 Ammonia-N
 0.0500U
 0.100
 0.0310

Batch Information

Analytical Batch: WDA4529

Analytical Method: SM21 4500-NH3 G

Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 4/1/2019 2:41:44PM

Prep Batch: WXX12752 Prep Method: METHOD

Prep Date/Time: 4/1/2019 12:45:00PM

Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL

Print Date: 04/15/2019 3:58:32PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191289 [WXX12752]

Blank Spike Lab ID: 1500880 Date Analyzed: 04/01/2019 14:43 Spike Duplicate ID: LCSD for HBN 1191289

[WXX12752]

Spike Duplicate Lab ID: 1500881 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289001, 1191289004

Results by SM21 4500-NH3 G

Blank Spike (mg/L) Spike Duplicate (mg/L)

Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL

 Parameter
 Spike
 Result
 Rec (%)
 Spike
 Result
 Rec (%)
 CL
 RPD (%)
 RPD (%)

 Ammonia-N
 1
 1.01
 101
 1
 1.11
 111
 (75-125)
 10.00
 (<25)</td>

Batch Information

Analytical Batch: WDA4529

Analytical Method: SM21 4500-NH3 G

Instrument: Discrete Analyzer 2

Analyst: DMM

Prep Batch: WXX12752
Prep Method: METHOD

Prep Date/Time: 04/01/2019 12:45

Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 04/15/2019 3:58:33PM



Matrix Spike Summary

Original Sample ID: 1191267001 MS Sample ID: 1500882 MS MSD Sample ID: 1500883 MSD

QC for Samples: 1191289001, 1191289004

Analysis Date: 04/01/2019 14:46 Analysis Date: 04/01/2019 14:48 Analysis Date: 04/01/2019 14:50 Matrix: Water (Surface, Eff., Ground)

•

Results by SM21 4500-NH3 G

Matrix Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> Sample Spike Result Rec (%) Spike Result Rec (%) RPD (%) RPD CL CL Ammonia-N 1.55 1.00 2.65 111 1.00 2.10 56 75-125 23.10 (< 25)

Batch Information

Analytical Batch: WDA4529

Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 4/1/2019 2:48:28PM

Prep Batch: WXX12752

Prep Method: Ammonia by SM21 4500F prep (W)

Prep Date/Time: 4/1/2019 12:45:00PM

Prep Initial Wt./Vol.: 6.00mL Prep Extract Vol: 6.00mL

Print Date: 04/15/2019 3:58:34PM



Method Blank

Blank ID: MB for HBN 1792322 [WXX/12757]

Blank Lab ID: 1501545

QC for Samples:

1191289004, 1191289005, 1191289006

Matrix: Water (Surface, Eff., Ground)

Results by SM21 4500P-B,E

 Parameter
 Results
 LOQ/CL
 DL
 Units

 Total Phosphorus
 0.0100U
 0.0200
 0.00500
 mg/L

Batch Information

Analytical Batch: WDA4532 Analytical Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 4/4/2019 12:57:44PM

Prep Batch: WXX12757 Prep Method: SM21 4500P-B,E Prep Date/Time: 4/4/2019 10:35:00AM

Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

Print Date: 04/15/2019 3:58:34PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1191289 [WXX12757]

Blank Spike Lab ID: 1501546 Date Analyzed: 04/04/2019 12:58 Spike Duplicate ID: LCSD for HBN 1191289

[WXX12757]

Spike Duplicate Lab ID: 1501547 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289004, 1191289005, 1191289006

Results by SM21 4500P-B,E

Blank Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> Rec (%) Rec (%) Spike Result Spike RPD (%) RPD CL Result **Total Phosphorus** 0.189 0.2 0.189 0.2 94 94 (75-125)0.00 (< 25)

Batch Information

Analytical Batch: WDA4532 Analytical Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2

Analyst: DMM

Prep Batch: WXX12757
Prep Method: SM21 4500P-B,E
Prep Date/Time: 04/04/2019 10:35

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: 04/15/2019 3:58:35PM



Matrix Spike Summary

Original Sample ID: 1199148001 MS Sample ID: 1501548 MS MSD Sample ID: 1501549 MSD Analysis Date: 04/04/2019 13:00 Analysis Date: 04/04/2019 13:01 Analysis Date: 04/04/2019 13:02 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1191289004, 1191289005, 1191289006

Results by SM21 4500P-B,E

Matrix Spike (mg/L) Spike Duplicate (mg/L)

<u>Parameter</u> <u>Sample</u> Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CL Total Phosphorus 0.0100U 0.200 0.200 103 .194 97 0.206 75-125 6.30 (< 25)

Batch Information

Analytical Batch: WDA4532 Analytical Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2

Analyst: DMM

Analytical Date/Time: 4/4/2019 1:01:36PM

Prep Batch: WXX12757

Prep Method: Total Phosphorus (W) Ext. Prep Date/Time: 4/4/2019 10:35:00AM

Prep Initial Wt./Vol.: 25.00mL Prep Extract Vol: 25.00mL

Print Date: 04/15/2019 3:58:36PM



SGS North America Inc. CHAIN OF CUSTODY RECOF



Locations Nationwide

Alaska Maryland New Jersey New York North Carolina Indiana West Virgina Kentucky

www.us.sgs.com

	CLIENT: Stantec					Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.										Page of		
Section 1	CONTACT:) WE ALWARD PHONE NO: 343-5202					Section 3 Preservative									1 age 01 <u>/</u>			
	PROJECT PWSID/ NAME: Wasi//a WWTP PERMIT#:					# C		(١)	Naso	Nassa	usell	HORA				
	invoice to: Quote #:					0 N T A	Type C = COMP G = GRAB MI =			24.4	a fact.	17/10× 20/41	/AMIMODILL	Ammonia/				
	RESERVED for lab use	P.O. SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	N E R S	Multi Incre- mental Soils	Pon	TS3	Nital/Nitil	Feal (77.	TRV/IA	WA TOWN	-	-		REMARKS/ LOC ID
(DAC	MW20 MW14A	3/25/19	1312	water	<u>あ</u>	6			1	1							
2	DAC DAD	MW14B		1333		0				ì	Ì							
Section 2	WAF SAP	SWIT SWIS		1403		و		1	<u> </u>	1	1	1		<u> </u>				-
0)	DAF	03	4	1423	V	le_	4)	1	١	1	1		1				
ļ																		
	1																	
Section 5	Relinquished By: (1) Date			Time	Received By:					Section 4 DOD Project? Yes No Data D						a Delive	eliverable Requirements:	
	Relinguished By: (2) Date Time Received By:				<i>)</i>	Cooler ID:						ial Ins	I Instructions:					
											Profile # 348183							
	Relinquished By: (3) Date Time Received By:				:		Chain of C						custody Seal: (Circle)					
					Laboratory By:				Temp Blank °C: Chain of C						/ ' '\			
	3.25.19 6:11					<u>=</u> :	- 27				(See attached Sample Receipt Form)							

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

REVIEWED_



e-Sam<u>ple Receipt Form</u>

SGS Workorder #:

1191289



Review Criteria	Condition	ı (Yes, N	lo, N/A	N/A Exceptions Noted below						
Chain of Custody / Temperature Require	ement	<u>s</u>		Yes	Exemption permitted if	sampler hand	carries/deliv	ers.		
Were Custody Seals intact? Note # & lo	ocation	N/A	HD							
COC accompanied sar	mples?	Yes								
DOD: Were samples received in COC corresponding co	oolers?	N/A								
Yes **Exemption permitted if c	hilled & o	collec	ted <8 ho	urs	ago, or for samples wher					
Temperature blank compliant* (i.e., 0-6 °C after	r CF)?	Yes	Cooler I	D:	1 @	5.9°C	Therm. ID:	D12		
			Cooler I	D:	@		Therm. ID:			
If samples received without a temperature blank, the "cooler temperature" will documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "c			Cooler I	D:	@		Therm. ID:			
will be noted if neither is available.			Cooler I	_	@		Therm. ID:			
***			Cooler I	D:	@	°C	Therm. ID:			
*If >6°C, were samples collected <8 hours	ago?	N/A								
If <0°C, were sample containers ice	free?	N/A								
Note: Identify and in an area is also to a second state of the sec	11									
Note: Identify containers received at non-compliant temperature form FS-0029 if more space is ne										
101111 0 0020 ii 111010 opuse ie 110	ouou.									
Holding Time / Documentation / Sample Condition Red	quireme	ents	Note: Re	er to	o form F-083 "Sample Gu	uide" for specif	ic holding tin	nes.		
Were samples received within holding										
Do samples match COC** (i.e.,sample IDs,dates/times collections)	cted)?	Yes								
**Note: If times differ <1hr, record details & login per CC	C.									
***Note: If sample information on containers differs from COC, SGS will default to 0	COC infor	rmatic								
Were analytical requests clear? (i.e., method is specified for analytical requests clear?		Yes								
with multiple option for analysis (Ex: BTEX, M	/letals)									
					7					
					***Exemption permitted	for metals (e.	g,200.8/6020	0A).		
Were proper containers (type/mass/volume/preservative***)	used?	Yes								
Volatile / LL-Hg Requ	iiromo	nto								
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with sam	-									
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6										
Were all soil VOAs field extracted with MeOH+										
		_	uith atana	lord	procedures and may imp	oot data quali	h.			
Note to Client: Any "No", answer above indicates non					procedures and may imp	acı uata quall	ıy.			
Additional	notes	(if ap	plicab	e):						



Sample Containers and Preservatives

Container Id	<u>Preservative</u>	<u>Container</u> Condition	Container Id	<u>Preservative</u>	<u>Container</u> Condition
1191289001-A	No Preservative Required	OK			<u> </u>
1191289001-A 1191289001-B	Na2S2O3 for Chlorine Redu	OK OK			
	H2SO4 to pH < 2	_			
1191289001-C	No Preservative Required	OK			
1191289002-A	Na2S2O3 for Chlorine Redu	OK			
1191289002-B		OK			
1191289002-C	H2SO4 to pH < 2	OK			
1191289003-A	No Preservative Required	OK			
1191289003-B	Na2S2O3 for Chlorine Redu	OK			
1191289004-A	No Preservative Required	OK			
1191289004-B	Na2S2O3 for Chlorine Redu	OK			
1191289004-C	Na2S2O3 for Chlorine Redu	OK			
1191289004-D	H2SO4 to pH < 2	OK			
1191289004-E	No Preservative Required	OK			
1191289004-F	No Preservative Required	OK			
1191289005-A	No Preservative Required	OK			
1191289005-B	Na2S2O3 for Chlorine Redu	OK			
1191289005-C	Na2S2O3 for Chlorine Redu	OK			
1191289005-D	H2SO4 to $pH < 2$	ОК			
1191289005-E	No Preservative Required	ОК			
1191289005-F	No Preservative Required	ОК			
1191289006-A	No Preservative Required	ОК			
1191289006-B	Na2S2O3 for Chlorine Redu	ОК			
1191289006-C	Na2S2O3 for Chlorine Redu	ОК			
1191289006-D	H2SO4 to pH < 2	OK			
1191289006-E	No Preservative Required	OK			
1191289006-F	No Preservative Required	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.

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