Laboratory Report of Analysis

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

Report Number: **1196566**

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 Date
Project Manager
Justin.Nelson@sgs.com

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1196566**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SW5 (1196566005) PS

9223 -Quant Tray- Sample was also analysed undiluted and showed 5 colonies of E. coli present.

1196258013(1542240MS) (1542242) MS

300.0 - Anions - MS recoveries for chloride and fluoride are outside of QC criteria. Refer to LCS for accuracy requirements.

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

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <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). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
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	Matrix
SW1	1196566001	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
SW2	1196566002	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
SW3	1196566003	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
SW4	1196566004	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
SW5	1196566005	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
SW6	1196566006	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
SW7	1196566007	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
DUP1	1196566008	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
BW5	1196566009	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)
BW13	1196566010	10/31/2019	10/31/2019	Water (Surface, Eff., Ground)

Method	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

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Detectable Results Summary

Client Sample ID: **SW1**
Lab Sample ID: 1196566001
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	687	MPN/100mL
Ammonia-N	0.0865J	mg/L
Total Kjeldahl Nitrogen	0.366J	mg/L
Total Phosphorus	0.0113J	mg/L
Total Suspended Solids	2.00	mg/L

Client Sample ID: **SW2**
Lab Sample ID: 1196566002
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.01	mg/L
Fecal Coliform	6.7	col/100mL
Total Coliform	411	MPN/100mL
Ammonia-N	0.0853J	mg/L
Nitrate-N	12.6	mg/L
Total Kjeldahl Nitrogen	0.474J	mg/L
Total Nitrate/Nitrite-N	12.6	mg/L
Total Phosphorus	0.0598	mg/L
Total Suspended Solids	0.700J	mg/L

Client Sample ID: **SW3**
Lab Sample ID: 1196566003
Microbiology Laboratory
Waters Department

Parameter	Result	Units
E. Coli	4	MPN/100mL
Fecal Coliform	4.9	col/100mL
Total Coliform	2420	MPN/100mL
Ammonia-N	0.0871J	mg/L
Nitrate-N	23.9	mg/L
Total Kjeldahl Nitrogen	0.818J	mg/L
Total Nitrate/Nitrite-N	24.1	mg/L
Total Phosphorus	2.97	mg/L
Total Suspended Solids	0.918J	mg/L

Client Sample ID: **SW4**
Lab Sample ID: 1196566004
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Fecal Coliform	1.7	col/100mL
Total Coliform	365	MPN/100mL
Ammonia-N	0.0994J	mg/L
Total Kjeldahl Nitrogen	0.334J	mg/L
Total Suspended Solids	0.392J	mg/L

Client Sample ID: **SW5**
Lab Sample ID: 1196566005
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	760	MPN/100mL
Ammonia-N	0.0813J	mg/L
Total Kjeldahl Nitrogen	0.843J	mg/L
Total Phosphorus	0.0100J	mg/L
Total Suspended Solids	1.30	mg/L

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Detectable Results Summary

Client Sample ID: **SW6**
Lab Sample ID: 1196566006

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	3	MPN/100mL
	Fecal Coliform	5.0	col/100mL
	Total Coliform	210	MPN/100mL
Waters Department	Ammonia-N	0.107	mg/L
	Nitrate-N	8.05	mg/L
	Nitrite-N	0.126J	mg/L
	Total Kjeldahl Nitrogen	0.598J	mg/L
	Total Nitrate/Nitrite-N	8.17	mg/L
	Total Phosphorus	0.145	mg/L
	Total Suspended Solids	3.98	mg/L

Client Sample ID: **SW7**
Lab Sample ID: 1196566007

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.75	mg/L
	E. Coli	180	MPN/100mL
	Fecal Coliform	38	col/100mL
	Total Coliform	3100	MPN/100mL
Waters Department	Ammonia-N	0.0607J	mg/L
	Total Kjeldahl Nitrogen	0.552J	mg/L
	Total Phosphorus	0.0244	mg/L
	Total Suspended Solids	6.84	mg/L

Client Sample ID: **DUP1**
Lab Sample ID: 1196566008

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	365	MPN/100mL
Waters Department	Ammonia-N	0.0759J	mg/L
	Total Kjeldahl Nitrogen	0.627J	mg/L
	Total Phosphorus	0.0803	mg/L
	Total Suspended Solids	1.40	mg/L

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Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566001
Lab Project ID: 1196566

Collection Date: 10/31/19 11:05
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566001-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		10/31/19 18:13
Total Coliform	687		1	1	MPN/100m	1		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566001-B

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566001
Lab Project ID: 1196566

Collection Date: 10/31/19 11:05
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 17:29
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 17:29
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 17:29

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 17:29
Container ID: 1196566001-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.00		1.00	0.310	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.366	J	1.00	0.310	mg/L	1		11/14/19 09:48

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 09:48
Container ID: 1196566001-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0865	J	0.100	0.0310	mg/L	1		11/04/19 15:19

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566001
Lab Project ID: 1196566

Collection Date: 10/31/19 11:05
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:19
Container ID: 1196566001-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0113	J	0.0200	0.00500	mg/L	1		11/02/19 12:29

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 12:29
Container ID: 1196566001-F

Prep Batch: WXX13094
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/01/19 17:13
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566002
Lab Project ID: 1196566

Collection Date: 10/31/19 11:25
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.01		2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566002-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	6.7		1.67	1.67	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		10/31/19 18:13
Total Coliform	411		1	1	MPN/100m	1		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566002-B

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566002
Lab Project ID: 1196566

Collection Date: 10/31/19 11:25
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	12.6		0.200	0.0500	mg/L	1		11/01/19 18:45
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/01/19 18:45
Total Nitrate/Nitrite-N	12.6		0.200	0.0500	mg/L	1		11/01/19 18:45

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 18:45
Container ID: 1196566002-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.700 J		1.00	0.310	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.474 J		1.00	0.310	mg/L	1		11/14/19 09:52

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 09:52
Container ID: 1196566002-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0853 J		0.100	0.0310	mg/L	1		11/04/19 15:21

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566002
Lab Project ID: 1196566

Collection Date: 10/31/19 11:25
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:21
Container ID: 1196566002-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0598		0.0200	0.00500	mg/L	1		11/02/19 12:32

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 12:32
Container ID: 1196566002-F

Prep Batch: WXX13094
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/01/19 17:13
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566003
Lab Project ID: 1196566

Collection Date: 10/31/19 11:45
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566003-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	4.9		1.64	1.64	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	4		1	1	MPN/100m	1		10/31/19 18:13
Total Coliform	2420		1	1	MPN/100m	1		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566003-B

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566003
Lab Project ID: 1196566

Collection Date: 10/31/19 11:45
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	23.9		0.800	0.200	mg/L	4		11/02/19 08:34
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/01/19 19:04
Total Nitrate/Nitrite-N	24.1		0.800	0.200	mg/L	4		11/02/19 08:34

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 08:34
Container ID: 1196566003-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 19:04
Container ID: 1196566003-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.918 J		1.02	0.316	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.818 J		1.00	0.310	mg/L	1		11/14/19 09:53

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 09:53
Container ID: 1196566003-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566003
Lab Project ID: 1196566

Collection Date: 10/31/19 11:45
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0871	J	0.100	0.0310	mg/L	1		11/04/19 15:22

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:22
Container ID: 1196566003-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	2.97		0.400	0.100	mg/L	1		11/02/19 14:53

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:53
Container ID: 1196566003-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 12:56
Prep Initial Wt./Vol.: 1.25 mL
Prep Extract Vol: 25 mL

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566004
Lab Project ID: 1196566

Collection Date: 10/31/19 13:30
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566004-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.7		1.67	1.67	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		10/31/19 18:13
Total Coliform	365		1	1	MPN/100m	1		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566004-B

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Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566004
Lab Project ID: 1196566

Collection Date: 10/31/19 13:30
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 19:23
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 19:23
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 19:23

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 19:23
Container ID: 1196566004-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.392	J	0.980	0.304	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.334	J	1.00	0.310	mg/L	1		11/14/19 09:54

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 09:54
Container ID: 1196566004-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0994	J	0.100	0.0310	mg/L	1		11/04/19 15:24

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566004
Lab Project ID: 1196566

Collection Date: 10/31/19 13:30
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:24
Container ID: 1196566004-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0100	U	0.0200	0.00500	mg/L	1		11/02/19 12:33

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 12:33
Container ID: 1196566004-F

Prep Batch: WXX13094
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/01/19 17:13
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566005
Lab Project ID: 1196566

Collection Date: 10/31/19 13:50
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566005-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20 U		20	20	MPN/100m	20		10/31/19 18:13
Total Coliform	760		20	20	MPN/100m	20		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566005-B

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Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566005
Lab Project ID: 1196566

Collection Date: 10/31/19 13:50
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 19:42
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 19:42
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 19:42

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 19:42
Container ID: 1196566005-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.30		1.00	0.310	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.843	J	1.00	0.310	mg/L	1		11/14/19 09:56

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 09:56
Container ID: 1196566005-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0813	J	0.100	0.0310	mg/L	1		11/04/19 15:26

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566005
Lab Project ID: 1196566

Collection Date: 10/31/19 13:50
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:26
Container ID: 1196566005-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0100	J	0.0200	0.00500	mg/L	1		11/02/19 12:34

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 12:34
Container ID: 1196566005-F

Prep Batch: WXX13094
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/01/19 17:13
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566006
Lab Project ID: 1196566

Collection Date: 10/31/19 13:10
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566006-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.67	1.67	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		10/31/19 18:13
Total Coliform	210		1	1	MPN/100m	1		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566006-B

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Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566006
Lab Project ID: 1196566

Collection Date: 10/31/19 13:10
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	8.05		0.200	0.0500	mg/L	1		11/01/19 20:01
Nitrite-N	0.126	J	0.200	0.0500	mg/L	1		11/01/19 20:01
Total Nitrate/Nitrite-N	8.17		0.200	0.0500	mg/L	1		11/01/19 20:01

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 20:01
Container ID: 1196566006-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.98		1.02	0.316	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.598	J	1.00	0.310	mg/L	1		11/14/19 06:39

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:39
Container ID: 1196566006-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.107		0.100	0.0310	mg/L	1		11/04/19 15:27

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566006
Lab Project ID: 1196566

Collection Date: 10/31/19 13:10
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:27
Container ID: 1196566006-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.145		0.0200	0.00500	mg/L	1		11/02/19 12:35

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 12:35
Container ID: 1196566006-F

Prep Batch: WXX13094
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/01/19 17:13
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566007
Lab Project ID: 1196566

Collection Date: 10/31/19 12:55
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.75		2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566007-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	38		1.67	1.67	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	180		20	20	MPN/100m	20		10/31/19 18:13
Total Coliform	3100		20	20	MPN/100m	20		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566007-B

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566007
Lab Project ID: 1196566

Collection Date: 10/31/19 12:55
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:20
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:20
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:20

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 20:20
Container ID: 1196566007-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	6.84		1.02	0.316	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.552	J	1.00	0.310	mg/L	1		11/14/19 06:40

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:40
Container ID: 1196566007-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0607	J	0.100	0.0310	mg/L	1		11/04/19 15:29

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566007
Lab Project ID: 1196566

Collection Date: 10/31/19 12:55
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:29
Container ID: 1196566007-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0244		0.0200	0.00500	mg/L	1		11/02/19 14:03

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:03
Container ID: 1196566007-F

Prep Batch: WXX13095
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566008
Lab Project ID: 1196566

Collection Date: 10/31/19 13:50
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L	1		11/01/19 12:45

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 12:45
Container ID: 1196566008-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		10/31/19 17:15

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 10/31/19 17:15
Container ID: 1196566008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		10/31/19 18:13
Total Coliform	365		1	1	MPN/100m	1		10/31/19 18:13

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 10/31/19 18:13
Container ID: 1196566008-B

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Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566008
Lab Project ID: 1196566

Collection Date: 10/31/19 13:50
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:39
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:39
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:39

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 20:39
Container ID: 1196566008-C

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.40		1.00	0.310	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196566008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.627	J	1.00	0.310	mg/L	1		11/14/19 06:41

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:41
Container ID: 1196566008-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0759	J	0.100	0.0310	mg/L	1		11/04/19 15:31

Print Date: 11/15/2019 9:34:38AM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566008
Lab Project ID: 1196566

Collection Date: 10/31/19 13:50
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:31
Container ID: 1196566008-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0803		0.0200	0.00500	mg/L	1		11/02/19 14:04

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:04
Container ID: 1196566008-F

Prep Batch: WXX13095
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **BW5**

Client Sample ID: **BW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566009
Lab Project ID: 1196566

Collection Date: 10/31/19 11:00
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:57
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:57
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/01/19 20:57

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 20:57
Container ID: 1196566009-A

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Results of **BW13**

Client Sample ID: **BW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196566010
Lab Project ID: 1196566

Collection Date: 10/31/19 11:30
Received Date: 10/31/19 15:32
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100 U		0.200	0.0500	mg/L	1		11/01/19 21:16
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/01/19 21:16
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/01/19 21:16

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/01/19 21:16
Container ID: 1196566010-A

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/01/19 09:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Method Blank

Blank ID: MB for HBN 1801777 [BOD/6466]
Blank Lab ID: 1541598

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 5210B**

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

Batch Information

Analytical Batch: BOD6466
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 11/1/2019 12:45:57PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [BOD6466]
Blank Spike Lab ID: 1541599
Date Analyzed: 11/01/2019 12:45

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	216	109	(84.6-115.4

Batch Information

Analytical Batch: **BOD6466**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 11/15/2019 9:34:46AM

Method Blank

Blank ID: MB for HBN 1801755 [BTF/17738]
Blank Lab ID: 1541523

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF17738
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 10/31/2019 5:15:35PM

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Method Blank

Blank ID: MB for HBN 1801757 [BTF/17740]
Blank Lab ID: 1541526

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 9223B**

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

Batch Information

Analytical Batch: BTF17740
Analytical Method: SM21 9223B
Instrument:
Analyst: A.L
Analytical Date/Time: 10/31/2019 6:13:36PM

Print Date: 11/15/2019 9:34:55AM

Method Blank

Blank ID: MB for HBN 1801868 [STS/6543]
Blank Lab ID: 1542034

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

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: STS6543
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 11/4/2019 4:04:29PM

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Duplicate Sample Summary

Original Sample ID: 1196540001
Duplicate Sample ID: 1542037

Analysis Date: 11/04/2019 16:04
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	71.2	73.6	mg/L	3.30	(< 5)

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 11/15/2019 9:35:02AM

Duplicate Sample Summary

Original Sample ID: 1196575001
Duplicate Sample ID: 1542038

Analysis Date: 11/04/2019 16:04
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	4.38	4.38	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 11/15/2019 9:35:02AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [STS6543]
Blank Spike Lab ID: 1542035
Date Analyzed: 11/04/2019 16:04

Spike Duplicate ID: LCSD for HBN 1196566 [STS6543]
Spike Duplicate Lab ID: 1542036
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	25.3	101	25	25.4	102	(75-125)	0.39	(< 5)

Batch Information

Analytical Batch: **STS6543**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1801801 [WXX/13094]
Blank Lab ID: 1541773

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566004, 1196566005, 1196566006

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: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 12:09:22PM

Prep Batch: WXX13094
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/1/2019 5:13:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13094]
Blank Spike Lab ID: 1541774
Date Analyzed: 11/02/2019 12:10

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13094]
Spike Duplicate Lab ID: 1541775
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566004, 1196566005, 1196566006

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.195	97	0.2	0.194	97	(75-125)	0.36	(< 25)

Batch Information

Analytical Batch: **WDA4677**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13094**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **11/01/2019 17:13**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1196190001
MS Sample ID: 1541776 MS
MSD Sample ID: 1541777 MSD

Analysis Date: 11/02/2019 12:12
Analysis Date: 11/02/2019 12:13
Analysis Date: 11/02/2019 12:14
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566004, 1196566005, 1196566006

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.177	0.200	.376	100	0.200	0.384	104	75-125	2.10	(< 25)

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 12:13:17PM

Prep Batch: WXX13094
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 11/1/2019 5:13:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/15/2019 9:35:11AM

Method Blank

Blank ID: MB for HBN 1801802 [WXX/13095]
Blank Lab ID: 1541778

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566007, 1196566008

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: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 1:40:04PM

Prep Batch: WXX13095
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/2/2019 11:01:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13095]
Blank Spike Lab ID: 1541779
Date Analyzed: 11/02/2019 13:41

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13095]
Spike Duplicate Lab ID: 1541780
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566007, 1196566008

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.189	95	0.2	0.193	97	(75-125)	2.20	(< 25)

Batch Information

Analytical Batch: **WDA4677**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13095**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **11/02/2019 11:01**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1199902001
MS Sample ID: 1541781 MS
MSD Sample ID: 1541782 MSD

Analysis Date: 11/02/2019 13:42
Analysis Date: 11/02/2019 13:43
Analysis Date: 11/02/2019 13:44
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566007, 1196566008

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.0100U	0.200	.206	103	0.200	0.203	102	75-125	1.40	(< 25)

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 1:43:57PM

Prep Batch: WXX13095
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 11/2/2019 11:01:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/15/2019 9:35:18AM

Method Blank

Blank ID: MB for HBN 1801803 [WXX/13096]
Blank Lab ID: 1541783

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566003

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: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 2:05:32PM

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/2/2019 11:01:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13096]
Blank Spike Lab ID: 1541784
Date Analyzed: 11/02/2019 14:06

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13096]
Spike Duplicate Lab ID: 1541785
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566003

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.194	97	0.2	0.197	99	(75-125)	1.60	(< 25)

Batch Information

Analytical Batch: **WDA4677**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13096**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **11/02/2019 11:01**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1196575013
MS Sample ID: 1541786 MS
MSD Sample ID: 1541787 MSD

QC for Samples: 1196566003

Analysis Date: 11/02/2019 14:21
Analysis Date: 11/02/2019 14:22
Analysis Date: 11/02/2019 14:23
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.0667	0.200	.275	104	0.200	0.269	101	75-125	2.20	(< 25)

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 2:22:31PM

Prep Batch: WXX13096
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 11/2/2019 11:01:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/15/2019 9:35:24AM

Method Blank

Blank ID: MB for HBN 1801878 [WXX/13102]
Blank Lab ID: 1542098

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0631J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 1:06:02PM

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Method Blank

Blank ID: MB for HBN 1801878 [WXX/13102]
Blank Lab ID: 1542103

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0649J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 2:59:19PM

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Method Blank

Blank ID: MB for HBN 1801878 [WXX/13102]
Blank Lab ID: 1542108

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0875J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 3:47:49PM

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13102]
Blank Spike Lab ID: 1542099
Date Analyzed: 11/04/2019 13:07

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13102]
Spike Duplicate Lab ID: 1542100
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	0.985	99	1	0.991	99	(75-125)	0.63	(< 25)

Batch Information

Analytical Batch: **WDA4680**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13102**
Prep Method: **METHOD**
Prep Date/Time: **11/04/2019 13:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13102]
Blank Spike Lab ID: 1542104
Date Analyzed: 11/04/2019 15:01

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13102]
Spike Duplicate Lab ID: 1542105
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.07	107	1	0.984	98	(75-125)	8.10	(< 25)

Batch Information

Analytical Batch: **WDA4680**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13102**
Prep Method: **METHOD**
Prep Date/Time: **11/04/2019 13:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13102]
Blank Spike Lab ID: 1542109
Date Analyzed: 11/04/2019 15:49

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13102]
Spike Duplicate Lab ID: 1542110
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.10	110	1	1.20	120	(75-125)	8.90	(< 25)

Batch Information

Analytical Batch: **WDA4680**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13102**
Prep Method: **METHOD**
Prep Date/Time: **11/04/2019 13:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 11/15/2019 9:35:28AM

Matrix Spike Summary

Original Sample ID: 1196326001
MS Sample ID: 1542101 MS
MSD Sample ID: 1542102 MSD

Analysis Date: 11/04/2019 13:12
Analysis Date: 11/04/2019 13:14
Analysis Date: 11/04/2019 13:16
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100U	1.00	.773	77	1.00	0.890	89	75-125	14.00	(< 25)

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 1:14:25PM

Prep Batch: WXX13102
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 11/15/2019 9:35:30AM

Matrix Spike Summary

Original Sample ID: 1196452001
MS Sample ID: 1542106 MS
MSD Sample ID: 1542107 MSD

Analysis Date: 11/04/2019 15:04
Analysis Date: 11/04/2019 15:06
Analysis Date: 11/04/2019 15:07
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.220	1.00	.975	76	1.00	1.23	101	75-125	23.10	(< 25)

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 3:06:02PM

Prep Batch: WXX13102
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 11/15/2019 9:35:30AM

Matrix Spike Summary

Original Sample ID: 1196575007
MS Sample ID: 1542111 MS
MSD Sample ID: 1542112 MSD

Analysis Date: 11/04/2019 15:56
Analysis Date: 11/04/2019 15:57
Analysis Date: 11/04/2019 15:59
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100	1.00	1.33	123	1.00	1.28	118	75-125	3.40	(< 25)

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 3:57:47PM

Prep Batch: WXX13102
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 11/15/2019 9:35:30AM

Method Blank

Blank ID: MB for HBN 1801903 [WXX/13103]
Blank Lab ID: 1542237

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008, 1196566009, 1196566010

Results by **EPA 300.0**

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

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/1/2019 11:09:14AM

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/1/2019 9:00:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Method Blank

Blank ID: MB for HBN 1801903 [WXX/13103]
Blank Lab ID: 1542244

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008, 1196566009, 1196566010

Results by **EPA 300.0**

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

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/1/2019 4:50:58PM

Prep Batch: WXX13103
Prep Method: METHOD
Prep Date/Time: 11/1/2019 9:00:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13103]
Blank Spike Lab ID: 1542238
Date Analyzed: 11/01/2019 11:28

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008, 1196566009, 1196566010

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	4.70	94	(90-110)
Nitrite-N	5	4.85	97	(90-110)
Total Nitrate/Nitrite-N	10	9.56	96	(90-110)

Batch Information

Analytical Batch: **WIC5988**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13103**
Prep Method: **METHOD**
Prep Date/Time: **11/01/2019 09:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13103]
Blank Spike Lab ID: 1542245
Date Analyzed: 11/01/2019 17:10

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008, 1196566009, 1196566010

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	4.71	94	(90-110)
Nitrite-N	5	4.81	96	(90-110)
Total Nitrate/Nitrite-N	10	9.52	95	(90-110)

Batch Information

Analytical Batch: **WIC5988**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13103**
Prep Method: **METHOD**
Prep Date/Time: **11/01/2019 09:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1542239
MS Sample ID: 1542241 MS
MSD Sample ID:

Analysis Date: 11/01/2019 13:40
Analysis Date: 11/01/2019 14:37
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008, 1196566009, 1196566010

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.53	91				90-110		
Nitrite-N	0.100U	5.00	5.2	104				90-110		

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/1/2019 2:37:56PM

Prep Batch: WXX13103
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 11/1/2019 9:00:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 11/15/2019 9:35:37AM

Matrix Spike Summary

Original Sample ID: 1196566010
MS Sample ID: 1542243 MS
MSD Sample ID:

Analysis Date: 11/01/2019 21:16
Analysis Date: 11/01/2019 22:13
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008, 1196566009, 1196566010

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.69	94				90-110		
Nitrite-N	0.100U	5.00	5.19	104				90-110		
Total Nitrate/Nitrite-N	0.100U	10.0	9.88	99				90-110		

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/1/2019 10:13:55PM

Prep Batch: WXX13103
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 11/1/2019 9:00:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 11/15/2019 9:35:37AM

Matrix Spike Summary

Original Sample ID: 1196566001
MS Sample ID: 1542246 MS
MSD Sample ID:

Analysis Date: 11/01/2019 17:29
Analysis Date: 11/01/2019 18:26
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008, 1196566009, 1196566010

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.68	94				90-110		
Nitrite-N	0.100U	5.00	5.29	106				90-110		
Total Nitrate/Nitrite-N	0.100U	10.0	9.97	100				90-110		

Batch Information

Analytical Batch: WIC5988
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/1/2019 6:26:08PM

Prep Batch: WXX13103
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 11/1/2019 9:00:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

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Method Blank

Blank ID: MB for HBN 1802210 [WXX/13115]
Blank Lab ID: 1543548

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

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: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 9:44:52AM

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1802210 [WXX/13115]
Blank Lab ID: 1543553

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

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: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 7:01:21AM

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13115]
Blank Spike Lab ID: 1543549
Date Analyzed: 11/14/2019 09:46

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13115]
Spike Duplicate Lab ID: 1543550
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.74	93	4	3.48	87	(75-125)	7.20	(< 25)

Batch Information

Analytical Batch: **WDA4686**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13115**
Prep Method: **METHOD**
Prep Date/Time: **11/13/2019 11:53**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196566 [WXX13115]
Blank Spike Lab ID: 1543554
Date Analyzed: 11/14/2019 07:02

Spike Duplicate ID: LCSD for HBN 1196566 [WXX13115]
Spike Duplicate Lab ID: 1543555
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.76	94	4	3.70	93	(75-125)	1.70	(< 25)

Batch Information

Analytical Batch: **WDA4686**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13115**
Prep Method: **METHOD**
Prep Date/Time: **11/13/2019 11:53**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1196566001
MS Sample ID: 1543551 MS
MSD Sample ID: 1543552 MSD

Analysis Date: 11/14/2019 9:48
Analysis Date: 11/14/2019 9:50
Analysis Date: 11/14/2019 9:51
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566001, 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	0.366J	4.00	3.71	84	4.00	3.56	80	75-125	4.30	(< 25)

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 9:50:01AM

Prep Batch: WXX13115
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/15/2019 9:35:43AM

Matrix Spike Summary

Original Sample ID: 1198801011
MS Sample ID: 1543556 MS
MSD Sample ID: 1543557 MSD

Analysis Date: 11/14/2019 7:12
Analysis Date: 11/14/2019 7:14
Analysis Date: 11/14/2019 7:15
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196566002, 1196566003, 1196566004, 1196566005, 1196566006, 1196566007, 1196566008

Results by **SM21 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	1.00U	4.00	3.42	85	4.00	3.29	82	75-125	3.60	(< 25)

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 7:14:05AM

Prep Batch: WXX13115
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/15/2019 9:35:43AM

SGS

1196566

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CHAIN OF CUSTODY RECORD

Locations Nationwide

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

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

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: Jake Allard PHONE NO: 343-5202

PROJECT NAME: Wasilla WWTP PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL:

INVOICE TO: QUOTE #: 20470041S P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incremental Soils	Preservative: NaOH	NaOH				H_2SO_4				REMARKS/ LOC ID
							FC	TC (Quant) 1x 10x	Nitrate/Nitrite	BOD	TSS	TKN/Ammonia/TP				
1 A-F	SW1	10/31/19	1105	water	6	G	1	1	1	1	1	1				
2 A-F	SW2		1125				1	1	1	1	1	1				
3 A-F	SW3		1145				1	1	1	1	1	1				
4 A-F	SW4		1330				1	1	1	1	1	1				
5 A-F	SW5		1350				1	1	1	1	1	1				
6 A-F	SW6		1310				1	1	1	1	1	1				
7 A-F	SW7		1255				1	1	1	1	1	1				
8 A-F	DUP 1		1350				1	1	1	1	1	1				
9 A-B	Trip Blank 10/31/19 BW5		1100		1				1							
10 A-B	BW13		1130		1				1							

Section 5

	Date	Time	
Relinquished By: (1)	10/31/19	1532	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	10/31/19	15:32	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Profile #548183 QM

Temp Blank °C: 1) 2.1 D58 2) 1.5 D54 or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

[ ] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
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e-Sample Receipt Form

SGS Workorder #: **1196566**

1196566

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		Yes — Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	N/A	Absent
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?	N/A	
	N/A	**Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 2.1 °C Therm. ID: D58
	Yes	Cooler ID: 2 @ 1.5 °C Therm. ID: D54
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °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 containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
	N/A	***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1196566001-A	Na2S2O3 for Chlorine Redu	OK			
1196566001-B	Na2S2O3 for Chlorine Redu	OK			
1196566001-C	No Preservative Required	OK			
1196566001-D	No Preservative Required	OK			
1196566001-E	No Preservative Required	OK			
1196566001-F	H2SO4 to pH < 2	OK			
1196566002-A	Na2S2O3 for Chlorine Redu	OK			
1196566002-B	Na2S2O3 for Chlorine Redu	OK			
1196566002-C	No Preservative Required	OK			
1196566002-D	No Preservative Required	OK			
1196566002-E	No Preservative Required	OK			
1196566002-F	H2SO4 to pH < 2	OK			
1196566003-A	Na2S2O3 for Chlorine Redu	OK			
1196566003-B	Na2S2O3 for Chlorine Redu	OK			
1196566003-C	No Preservative Required	OK			
1196566003-D	No Preservative Required	OK			
1196566003-E	No Preservative Required	OK			
1196566003-F	H2SO4 to pH < 2	OK			
1196566004-A	Na2S2O3 for Chlorine Redu	OK			
1196566004-B	Na2S2O3 for Chlorine Redu	OK			
1196566004-C	No Preservative Required	OK			
1196566004-D	No Preservative Required	OK			
1196566004-E	No Preservative Required	OK			
1196566004-F	H2SO4 to pH < 2	OK			
1196566005-A	Na2S2O3 for Chlorine Redu	OK			
1196566005-B	Na2S2O3 for Chlorine Redu	OK			
1196566005-C	No Preservative Required	OK			
1196566005-D	No Preservative Required	OK			
1196566005-E	No Preservative Required	OK			
1196566005-F	H2SO4 to pH < 2	OK			
1196566006-A	Na2S2O3 for Chlorine Redu	OK			
1196566006-B	Na2S2O3 for Chlorine Redu	OK			
1196566006-C	No Preservative Required	OK			
1196566006-D	No Preservative Required	OK			
1196566006-E	No Preservative Required	OK			
1196566006-F	H2SO4 to pH < 2	OK			
1196566007-A	Na2S2O3 for Chlorine Redu	OK			
1196566007-B	Na2S2O3 for Chlorine Redu	OK			
1196566007-C	No Preservative Required	OK			
1196566007-D	No Preservative Required	OK			
1196566007-E	No Preservative Required	OK			
1196566007-F	H2SO4 to pH < 2	OK			
1196566008-A	Na2S2O3 for Chlorine Redu	OK			
1196566008-B	Na2S2O3 for Chlorine Redu	OK			
1196566008-C	No Preservative Required	OK			
1196566008-D	No Preservative Required	OK			
1196566008-E	No Preservative Required	OK			
1196566008-F	H2SO4 to pH < 2	OK			
1196566009-A	No Preservative Required	OK			
1196566010-A	No Preservative Required	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

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

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

Laboratory Report of Analysis

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

Report Number: **1196575**

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 Date
Project Manager
Justin.Nelson@sgs.com

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1196575**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SHAW (1196575012) PS

9223 -Quant Tray- Sample was also analysed undiluted and showed 3 colonies of E. coli present.
300.0 - Anions - The sample was analyzed for Nitrate/Nitrite past its hold time due to instrument error data obtained within holding time confirms the reported data..

DUP 2 (1196575013) PS

300.0 - Anions - The sample was analyzed for Nitrate/Nitrite past its hold time due to instrument error data obtained within holding time confirms reported data.

1196575001(1542275MS) (1542277) MS

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

1196575013(1542276MS) (1542278) MS

300.0 - Anions - MS recoveries for nitrite and nitrate are outside of QC criteria. Refer to LCS for accuracy requirements.

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

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

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). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW8	1196575001	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW9	1196575002	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW10	1196575003	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW11	1196575004	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW12	1196575005	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW13	1196575006	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW14	1196575007	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW15	1196575008	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW16	1196575009	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW17	1196575010	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SW18	1196575011	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
SHAW	1196575012	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)
DUP 2	1196575013	11/01/2019	11/01/2019	Water (Surface, Eff., Ground)

Method	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

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

Detectable Results Summary

Client Sample ID: **SW8**
Lab Sample ID: 1196575001
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	124	MPN/100mL
Ammonia-N	0.0715J	mg/L
Total Kjeldahl Nitrogen	0.350J	mg/L
Total Phosphorus	0.0112J	mg/L
Total Suspended Solids	4.38	mg/L

Client Sample ID: **SW9**
Lab Sample ID: 1196575002
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	194	MPN/100mL
Ammonia-N	0.0881J	mg/L
Nitrate-N	0.982	mg/L
Total Nitrate/Nitrite-N	1.01	mg/L
Total Suspended Solids	2.60	mg/L

Client Sample ID: **SW10**
Lab Sample ID: 1196575003
Microbiology Laboratory

Waters Department

Parameter	Result	Units
E. Coli	1	MPN/100mL
Total Coliform	56	MPN/100mL
Ammonia-N	0.0836J	mg/L

Client Sample ID: **SW11**
Lab Sample ID: 1196575004
Microbiology Laboratory

Waters Department

Parameter	Result	Units
E. Coli	4	MPN/100mL
Total Coliform	14	MPN/100mL
Ammonia-N	0.0795J	mg/L
Total Phosphorus	0.0128J	mg/L

Client Sample ID: **SW12**
Lab Sample ID: 1196575005
Microbiology Laboratory

Waters Department

Parameter	Result	Units
E. Coli	18	MPN/100mL
Fecal Coliform	13	col/100mL
Total Coliform	435	MPN/100mL
Ammonia-N	0.0758J	mg/L
Total Phosphorus	0.00660J	mg/L
Total Suspended Solids	8.96	mg/L

Client Sample ID: **SW13**
Lab Sample ID: 1196575006
Microbiology Laboratory

Waters Department

Parameter	Result	Units
E. Coli	5	MPN/100mL
Total Coliform	365	MPN/100mL
Ammonia-N	0.0695J	mg/L
Total Suspended Solids	0.533J	mg/L

Detectable Results Summary

Client Sample ID: **SW14**
Lab Sample ID: 1196575007

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	80	MPN/100mL
Waters Department	Ammonia-N	0.100	mg/L
	Nitrate-N	0.159J	mg/L
	Total Nitrate/Nitrite-N	0.172J	mg/L
	Total Phosphorus	0.0196J	mg/L
	Total Suspended Solids	2.19	mg/L

Client Sample ID: **SW15**
Lab Sample ID: 1196575008

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	4	MPN/100mL
	Fecal Coliform	3.3	col/100mL
	Total Coliform	1733	MPN/100mL
Waters Department	Ammonia-N	0.0917J	mg/L
	Total Phosphorus	0.0169J	mg/L
	Total Suspended Solids	2.69	mg/L

Client Sample ID: **SW16**
Lab Sample ID: 1196575009

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	3	MPN/100mL
	Fecal Coliform	3.3	col/100mL
	Total Coliform	501	MPN/100mL
Waters Department	Ammonia-N	0.0835J	mg/L
	Total Kjeldahl Nitrogen	0.422J	mg/L
	Total Phosphorus	0.00900J	mg/L
	Total Suspended Solids	3.37	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1196575010

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	53	MPN/100mL
	Fecal Coliform	22	col/100mL
	Total Coliform	248	MPN/100mL
Waters Department	Ammonia-N	0.142	mg/L
	Nitrate-N	3.07	mg/L
	Total Kjeldahl Nitrogen	0.319J	mg/L
	Total Nitrate/Nitrite-N	3.08	mg/L
	Total Phosphorus	0.0696	mg/L
	Total Suspended Solids	1.58	mg/L

Detectable Results Summary

Client Sample ID: **SW18**
Lab Sample ID: 1196575011

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.69	mg/L
	E. Coli	107	MPN/100mL
	Fecal Coliform	109	col/100mL
	Total Coliform	1120	MPN/100mL
Waters Department	Ammonia-N	0.144	mg/L
	Nitrate-N	5.80	mg/L
	Total Kjeldahl Nitrogen	1.42	mg/L
	Total Nitrate/Nitrite-N	5.82	mg/L
	Total Phosphorus	0.908	mg/L
	Total Suspended Solids	3.54	mg/L

Client Sample ID: **SHAW**
Lab Sample ID: 1196575012

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	4200	MPN/100mL
Waters Department	Ammonia-N	0.101	mg/L
	Total Phosphorus	0.0212	mg/L
	Total Suspended Solids	11.4	mg/L

Client Sample ID: **DUP 2**
Lab Sample ID: 1196575013

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	38	MPN/100mL
	Fecal Coliform	20	col/100mL
	Total Coliform	238	MPN/100mL
Waters Department	Ammonia-N	0.118	mg/L
	Nitrate-N	3.11	mg/L
	Total Nitrate/Nitrite-N	3.12	mg/L
	Total Phosphorus	0.0667	mg/L
	Total Suspended Solids	1.30	mg/L

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575001
Lab Project ID: 1196575

Collection Date: 11/01/19 11:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575001-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	124		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575001-E

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575001
Lab Project ID: 1196575

Collection Date: 11/01/19 11:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 19:09
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 19:09
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 19:09

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 19:09
Container ID: 1196575001-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	4.38		2.08	0.646	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196575001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.350	J	1.00	0.310	mg/L	1		11/14/19 06:43

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:43
Container ID: 1196575001-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0715	J	0.100	0.0310	mg/L	1		11/04/19 15:36

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575001
Lab Project ID: 1196575

Collection Date: 11/01/19 11:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:36
Container ID: 1196575001-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0112	J	0.0200	0.00500	mg/L	1		11/02/19 14:08

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:08
Container ID: 1196575001-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575002
Lab Project ID: 1196575

Collection Date: 11/01/19 10:55
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575002-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	194		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575002-E

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575002
Lab Project ID: 1196575

Collection Date: 11/01/19 10:55
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.982		0.200	0.0500	mg/L	1		11/02/19 19:47
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/02/19 19:47
Total Nitrate/Nitrite-N	1.01		0.200	0.0500	mg/L	1		11/02/19 19:47

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 19:47
Container ID: 1196575002-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.60		1.04	0.323	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196575002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U		1.00	0.310	mg/L	1		11/14/19 06:44

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:44
Container ID: 1196575002-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0881 J		0.100	0.0310	mg/L	1		11/04/19 15:37

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575002
Lab Project ID: 1196575

Collection Date: 11/01/19 10:55
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:37
Container ID: 1196575002-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0100	U	0.0200	0.00500	mg/L	1		11/02/19 14:09

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:09
Container ID: 1196575002-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575003
Lab Project ID: 1196575

Collection Date: 11/01/19 10:40
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575003-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	56		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575003-E

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575003
Lab Project ID: 1196575

Collection Date: 11/01/19 10:40
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:06
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:06
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:06

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 20:06
Container ID: 1196575003-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.500	U	1.00	0.310	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196575003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		11/14/19 06:45

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:45
Container ID: 1196575003-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0836	J	0.100	0.0310	mg/L	1		11/04/19 15:39

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575003
Lab Project ID: 1196575

Collection Date: 11/01/19 10:40
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:39
Container ID: 1196575003-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0100	U	0.0200	0.00500	mg/L	1		11/02/19 14:10

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:10
Container ID: 1196575003-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575004
Lab Project ID: 1196575

Collection Date: 11/01/19 13:05
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575004-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	4		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	14		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575004-E

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575004
Lab Project ID: 1196575

Collection Date: 11/01/19 13:05
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:25
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:25
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:25

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 20:25
Container ID: 1196575004-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.500	U	1.00	0.310	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196575004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		11/14/19 06:47

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:47
Container ID: 1196575004-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0795	J	0.100	0.0310	mg/L	1		11/04/19 15:41

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575004
Lab Project ID: 1196575

Collection Date: 11/01/19 13:05
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:41
Container ID: 1196575004-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0128	J	0.0200	0.00500	mg/L	1		11/02/19 14:11

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:11
Container ID: 1196575004-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575005
Lab Project ID: 1196575

Collection Date: 11/01/19 13:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	13		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575005-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	18		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	435		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575005-E

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575005
Lab Project ID: 1196575

Collection Date: 11/01/19 13:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:44
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:44
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 20:44

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 20:44
Container ID: 1196575005-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	8.96		1.04	0.323	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196575005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		11/14/19 06:48

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:48
Container ID: 1196575005-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0758	J	0.100	0.0310	mg/L	1		11/04/19 15:42

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575005
Lab Project ID: 1196575

Collection Date: 11/01/19 13:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:42
Container ID: 1196575005-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.00660	J	0.0200	0.00500	mg/L	1		11/02/19 14:12

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:12
Container ID: 1196575005-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575006
Lab Project ID: 1196575

Collection Date: 11/01/19 13:25
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575006-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	5		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	365		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575006-E

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575006
Lab Project ID: 1196575

Collection Date: 11/01/19 13:25
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 21:03
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 21:03
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 21:03

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 21:03
Container ID: 1196575006-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.533	J	1.33	0.413	mg/L	1		11/04/19 16:04

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196575006-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		11/14/19 06:49

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:49
Container ID: 1196575006-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0695	J	0.100	0.0310	mg/L	1		11/04/19 15:44

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575006
Lab Project ID: 1196575

Collection Date: 11/01/19 13:25
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:44
Container ID: 1196575006-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0100	U	0.0200	0.00500	mg/L	1		11/02/19 14:15

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:15
Container ID: 1196575006-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575007
Lab Project ID: 1196575

Collection Date: 11/01/19 14:30
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575007-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	80		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575007-E

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575007
Lab Project ID: 1196575

Collection Date: 11/01/19 14:30
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.159	J	0.200	0.0500	mg/L	1		11/02/19 21:22
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 21:22
Total Nitrate/Nitrite-N	0.172	J	0.200	0.0500	mg/L	1		11/02/19 21:22

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 21:22
Container ID: 1196575007-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.19		1.04	0.323	mg/L	1		11/06/19 15:25

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/06/19 15:25
Container ID: 1196575007-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		11/14/19 06:50

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:50
Container ID: 1196575007-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.100		0.100	0.0310	mg/L	1		11/04/19 15:56

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575007
Lab Project ID: 1196575

Collection Date: 11/01/19 14:30
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 15:56
Container ID: 1196575007-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0196	J	0.0200	0.00500	mg/L	1		11/02/19 14:16

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:16
Container ID: 1196575007-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575008
Lab Project ID: 1196575

Collection Date: 11/01/19 14:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	3.3		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575008-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	4		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	1733		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575008-E

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575008
Lab Project ID: 1196575

Collection Date: 11/01/19 14:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 22:19
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 22:19
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 22:19

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 22:19
Container ID: 1196575008-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.69		1.49	0.463	mg/L	1		11/06/19 15:25

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/06/19 15:25
Container ID: 1196575008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		11/14/19 06:54

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:54
Container ID: 1196575008-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0917	J	0.100	0.0310	mg/L	1		11/04/19 16:01

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575008
Lab Project ID: 1196575

Collection Date: 11/01/19 14:15
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 16:01
Container ID: 1196575008-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0169	J	0.0200	0.00500	mg/L	1		11/02/19 14:17

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:17
Container ID: 1196575008-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575009
Lab Project ID: 1196575

Collection Date: 11/01/19 14:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	3.3		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575009-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	501		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575009-E

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575009
Lab Project ID: 1196575

Collection Date: 11/01/19 14:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 22:38
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 22:38
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 22:38

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 22:38
Container ID: 1196575009-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.37		1.02	0.316	mg/L	1		11/06/19 15:25

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/06/19 15:25
Container ID: 1196575009-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.422	J	1.00	0.310	mg/L	1		11/14/19 06:56

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:56
Container ID: 1196575009-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0835	J	0.100	0.0310	mg/L	1		11/04/19 16:02

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575009
Lab Project ID: 1196575

Collection Date: 11/01/19 14:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 16:02
Container ID: 1196575009-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.00900	J	0.0200	0.00500	mg/L	1		11/02/19 14:18

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:18
Container ID: 1196575009-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575010
Lab Project ID: 1196575

Collection Date: 11/01/19 15:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	22		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575010-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	53		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	248		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575010-E

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575010
Lab Project ID: 1196575

Collection Date: 11/01/19 15:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	3.07		0.200	0.0500	mg/L	1		11/02/19 22:57
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/02/19 22:57
Total Nitrate/Nitrite-N	3.08		0.200	0.0500	mg/L	1		11/02/19 22:57

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 22:57
Container ID: 1196575010-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.58		0.990	0.307	mg/L	1		11/06/19 15:25

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/06/19 15:25
Container ID: 1196575010-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.319 J		1.00	0.310	mg/L	1		11/14/19 06:57

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:57
Container ID: 1196575010-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.142		0.100	0.0310	mg/L	1		11/04/19 16:04

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575010
Lab Project ID: 1196575

Collection Date: 11/01/19 15:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 16:04
Container ID: 1196575010-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0696		0.0200	0.00500	mg/L	1		11/02/19 14:19

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:19
Container ID: 1196575010-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575011
Lab Project ID: 1196575

Collection Date: 11/01/19 15:28
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.69		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	109		9.09	9.09	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575011-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	107		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	1120		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575011-E

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575011
Lab Project ID: 1196575

Collection Date: 11/01/19 15:28
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	5.80		0.200	0.0500	mg/L	1		11/02/19 23:16
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/02/19 23:16
Total Nitrate/Nitrite-N	5.82		0.200	0.0500	mg/L	1		11/02/19 23:16

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/02/19 23:16
Container ID: 1196575011-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.54		1.04	0.323	mg/L	1		11/06/19 15:25

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/06/19 15:25
Container ID: 1196575011-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.42		1.00	0.310	mg/L	1		11/14/19 06:58

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 06:58
Container ID: 1196575011-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.144		0.100	0.0310	mg/L	1		11/04/19 16:06

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575011
Lab Project ID: 1196575

Collection Date: 11/01/19 15:28
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 16:06
Container ID: 1196575011-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.908		0.100	0.0250	mg/L	1		11/12/19 16:47

Batch Information

Analytical Batch: WDA4683
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/12/19 16:47
Container ID: 1196575011-F

Prep Batch: WXX13111
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/12/19 12:12
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **SHAW**

Client Sample ID: **SHAW**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575012
Lab Project ID: 1196575

Collection Date: 11/01/19 12:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575012-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20	U	20	20	MPN/100m	20		11/01/19 18:30
Total Coliform	4200		20	20	MPN/100m	20		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575012-E

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SHAW**

Client Sample ID: **SHAW**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575012
Lab Project ID: 1196575

Collection Date: 11/01/19 12:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		11/03/19 18:26
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/03/19 18:26
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		11/03/19 18:26

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/03/19 18:26
Container ID: 1196575012-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	11.4		1.02	0.316	mg/L	1		11/06/19 15:25

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/06/19 15:25
Container ID: 1196575012-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		11/14/19 07:00

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 07:00
Container ID: 1196575012-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.101		0.100	0.0310	mg/L	1		11/04/19 16:07

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **SHAW**

Client Sample ID: **SHAW**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575012
Lab Project ID: 1196575

Collection Date: 11/01/19 12:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 16:07
Container ID: 1196575012-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0212		0.0200	0.00500	mg/L	1		11/02/19 14:20

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:20
Container ID: 1196575012-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **DUP 2**

Client Sample ID: **DUP 2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575013
Lab Project ID: 1196575

Collection Date: 11/01/19 15:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		11/01/19 22:35

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 11/01/19 22:35
Container ID: 1196575013-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	20		1.67	1.67	col/100mL	1		11/01/19 18:22

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 11/01/19 18:22
Container ID: 1196575013-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	38		1	1	MPN/100m	1		11/01/19 18:30
Total Coliform	238		1	1	MPN/100m	1		11/01/19 18:30

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 11/01/19 18:30
Container ID: 1196575013-E

Results of **DUP 2**

Client Sample ID: **DUP 2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575013
Lab Project ID: 1196575

Collection Date: 11/01/19 15:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	3.11		0.200	0.0500	mg/L	1		11/03/19 17:48
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		11/03/19 17:48
Total Nitrate/Nitrite-N	3.12		0.200	0.0500	mg/L	1		11/03/19 17:48

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 11/03/19 17:48
Container ID: 1196575013-C

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/02/19 16:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.30		1.00	0.310	mg/L	1		11/06/19 15:25

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 11/06/19 15:25
Container ID: 1196575013-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U		1.00	0.310	mg/L	1		11/14/19 07:05

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Analyst: EWW
Analytical Date/Time: 11/14/19 07:05
Container ID: 1196575013-F

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/19 11:53
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.118		0.100	0.0310	mg/L	1		11/04/19 16:09

Print Date: 11/19/2019 10:18:08AM

J flagging is activated

Results of **DUP 2**

Client Sample ID: **DUP 2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1196575013
Lab Project ID: 1196575

Collection Date: 11/01/19 15:00
Received Date: 11/01/19 16:36
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 11/04/19 16:09
Container ID: 1196575013-F

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/04/19 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0667		0.0200	0.00500	mg/L	1		11/02/19 14:21

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 11/02/19 14:21
Container ID: 1196575013-F

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/02/19 11:01
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1801794 [BOD/6467]
Blank Lab ID: 1541737

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 5210B**

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

Batch Information

Analytical Batch: BOD6467
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 11/1/2019 10:35:39PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [BOD6467]
Blank Spike Lab ID: 1541738
Date Analyzed: 11/01/2019 22:35

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	209	106	(84.6-115.4

Batch Information

Analytical Batch: **BOD6467**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 11/19/2019 10:18:15AM

Method Blank

Blank ID: MB for HBN 1801795 [BTF/17741]
Blank Lab ID: 1541739

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF17741
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 11/1/2019 6:22:54PM

Print Date: 11/19/2019 10:18:17AM

Method Blank

Blank ID: MB for HBN 1801797 [BTF/17743]
Blank Lab ID: 1541743

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 9223B**

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

Batch Information

Analytical Batch: BTF17743
Analytical Method: SM21 9223B
Instrument:
Analyst: A.L
Analytical Date/Time: 11/1/2019 6:30:57PM

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Method Blank

Blank ID: MB for HBN 1801868 [STS/6543]
Blank Lab ID: 1542034

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006

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: STS6543
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 11/4/2019 4:04:29PM

Duplicate Sample Summary

Original Sample ID: 1196540001
Duplicate Sample ID: 1542037
QC for Samples:
1196575001

Analysis Date: 11/04/2019 16:04
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	71.2	73.6	mg/L	3.30	(< 5)

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 11/19/2019 10:18:26AM

Duplicate Sample Summary

Original Sample ID: 1196575001
Duplicate Sample ID: 1542038
Analysis Date: 11/04/2019 16:04
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	4.38	4.38	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS6543
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 11/19/2019 10:18:26AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [STS6543]
Blank Spike Lab ID: 1542035
Date Analyzed: 11/04/2019 16:04

Spike Duplicate ID: LCSD for HBN 1196575 [STS6543]
Spike Duplicate Lab ID: 1542036
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	25.3	101	25	25.4	102	(75-125)	0.39	(< 5)

Batch Information

Analytical Batch: **STS6543**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1801942 [STS/6545]
Blank Lab ID: 1542431

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

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: STS6545
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 11/6/2019 3:25:41PM

Duplicate Sample Summary

Original Sample ID: 1196634002
Duplicate Sample ID: 1542434

Analysis Date: 11/06/2019 15:25
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	25.6	25.8	mg/L	0.87	(< 5)

Batch Information

Analytical Batch: STS6545
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 11/19/2019 10:18:30AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [STS6545]
Blank Spike Lab ID: 1542432
Date Analyzed: 11/06/2019 15:25

Spike Duplicate ID: LCSD for HBN 1196575 [STS6545]
Spike Duplicate Lab ID: 1542433
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	25.3	101	25	24.8	99	(75-125)	2.00	(< 5)

Batch Information

Analytical Batch: **STS6545**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1801803 [WXX/13096]
Blank Lab ID: 1541783

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575012, 1196575013

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: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 2:05:32PM

Prep Batch: WXX13096
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/2/2019 11:01:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13096]
Blank Spike Lab ID: 1541784
Date Analyzed: 11/02/2019 14:06

Spike Duplicate ID: LCSD for HBN 1196575 [WXX13096]
Spike Duplicate Lab ID: 1541785
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575012, 1196575013

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.194	97	0.2	0.197	99	(75-125)	1.60	(< 25)

Batch Information

Analytical Batch: **WDA4677**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13096**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **11/02/2019 11:01**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1196575013
MS Sample ID: 1541786 MS
MSD Sample ID: 1541787 MSD

Analysis Date: 11/02/2019 14:21
Analysis Date: 11/02/2019 14:22
Analysis Date: 11/02/2019 14:23
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575012, 1196575013

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.0667	0.200	.275	104	0.200	0.269	101	75-125	2.20	(< 25)

Batch Information

Analytical Batch: WDA4677
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/2/2019 2:22:31PM

Prep Batch: WXX13096
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 11/2/2019 11:01:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/19/2019 10:18:37AM

Method Blank

Blank ID: MB for HBN 1801878 [WXX/13102]
Blank Lab ID: 1542098

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0631J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 1:06:02PM

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Method Blank

Blank ID: MB for HBN 1801878 [WXX/13102]
Blank Lab ID: 1542103

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0649J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 2:59:19PM

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Method Blank

Blank ID: MB for HBN 1801878 [WXX/13102]
Blank Lab ID: 1542108

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0875J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 3:47:49PM

Prep Batch: WXX13102
Prep Method: METHOD
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13102]
Blank Spike Lab ID: 1542099
Date Analyzed: 11/04/2019 13:07

Spike Duplicate ID: LCSD for HBN 1196575 [WXX13102]
Spike Duplicate Lab ID: 1542100
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	0.985	99	1	0.991	99	(75-125)	0.63	(< 25)

Batch Information

Analytical Batch: **WDA4680**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13102**
Prep Method: **METHOD**
Prep Date/Time: **11/04/2019 13:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13102]
Blank Spike Lab ID: 1542104
Date Analyzed: 11/04/2019 15:01

Spike Duplicate ID: LCSD for HBN 1196575 [WXX13102]
Spike Duplicate Lab ID: 1542105
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.07	107	1	0.984	98	(75-125)	8.10	(< 25)

Batch Information

Analytical Batch: **WDA4680**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13102**
Prep Method: **METHOD**
Prep Date/Time: **11/04/2019 13:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13102]
Blank Spike Lab ID: 1542109
Date Analyzed: 11/04/2019 15:49

Spike Duplicate ID: LCSD for HBN 1196575 [WXX13102]
Spike Duplicate Lab ID: 1542110
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.10	110	1	1.20	120	(75-125)	8.90	(< 25)

Batch Information

Analytical Batch: **WDA4680**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13102**
Prep Method: **METHOD**
Prep Date/Time: **11/04/2019 13:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Matrix Spike Summary

Original Sample ID: 1196326001
MS Sample ID: 1542101 MS
MSD Sample ID: 1542102 MSD

Analysis Date: 11/04/2019 13:12
Analysis Date: 11/04/2019 13:14
Analysis Date: 11/04/2019 13:16
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100U	1.00	.773	77	1.00	0.890	89	75-125	14.00	(< 25)

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 1:14:25PM

Prep Batch: WXX13102
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 11/19/2019 10:18:43AM

Matrix Spike Summary

Original Sample ID: 1196452001
MS Sample ID: 1542106 MS
MSD Sample ID: 1542107 MSD

Analysis Date: 11/04/2019 15:04
Analysis Date: 11/04/2019 15:06
Analysis Date: 11/04/2019 15:07
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.220	1.00	.975	76	1.00	1.23	101	75-125	23.10	(< 25)

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 3:06:02PM

Prep Batch: WXX13102
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 11/19/2019 10:18:43AM

Matrix Spike Summary

Original Sample ID: 1196575007
MS Sample ID: 1542111 MS
MSD Sample ID: 1542112 MSD

Analysis Date: 11/04/2019 15:56
Analysis Date: 11/04/2019 15:57
Analysis Date: 11/04/2019 15:59
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100	1.00	1.33	123	1.00	1.28	118	75-125	3.40	(< 25)

Batch Information

Analytical Batch: WDA4680
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/4/2019 3:57:47PM

Prep Batch: WXX13102
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 11/4/2019 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 11/19/2019 10:18:43AM

Method Blank

Blank ID: MB for HBN 1801908 [WXX/13104]
Blank Lab ID: 1542273

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.0650J	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.0800J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/2/2019 4:56:46PM

Prep Batch: WXX13104
Prep Method: METHOD
Prep Date/Time: 11/2/2019 4:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13104]
Blank Spike Lab ID: 1542274
Date Analyzed: 11/02/2019 17:15

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	4.74	95	(90-110)
Nitrite-N	5	4.88	98	(90-110)
Total Nitrate/Nitrite-N	10	9.62	96	(90-110)

Batch Information

Analytical Batch: **WIC5989**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13104**
Prep Method: **METHOD**
Prep Date/Time: **11/02/2019 16:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1542275
MS Sample ID: 1542277 MS
MSD Sample ID:

Analysis Date: 11/02/2019 19:09
Analysis Date: 11/02/2019 19:28
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.5	90				90-110		
Nitrite-N	0.100U	5.00	6	120 *				90-110		

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/2/2019 7:28:38PM

Prep Batch: WXX13104
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 11/2/2019 4:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 11/19/2019 10:18:49AM

Matrix Spike Summary

Original Sample ID: 1542276
MS Sample ID: 1542278 MS
MSD Sample ID:

Analysis Date: 11/03/2019 17:48
Analysis Date: 11/03/2019 18:07
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **EPA 300.0**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	3.11	5.00	7.39	86	*				90-110		
Nitrite-N	0.100U	5.00	5.64	113	*				90-110		

Batch Information

Analytical Batch: WIC5989
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 11/3/2019 6:07:47PM

Prep Batch: WXX13104
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 11/2/2019 4:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 11/19/2019 10:18:49AM

Method Blank

Blank ID: MB for HBN 1802156 [WXX/13111]
Blank Lab ID: 1543345

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575011

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: WDA4683
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/12/2019 4:42:43PM

Prep Batch: WXX13111
Prep Method: SM21 4500P-B,E
Prep Date/Time: 11/12/2019 12:12:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13111]
Blank Spike Lab ID: 1543346
Date Analyzed: 11/12/2019 16:43

Spike Duplicate ID: LCSD for HBN 1196575 [WXX13111]
Spike Duplicate Lab ID: 1543347
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575011

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.192	96	0.2	0.193	96	(75-125)	0.57	(< 25)

Batch Information

Analytical Batch: **WDA4683**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13111**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **11/12/2019 12:12**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1199898001
MS Sample ID: 1543348 MS
MSD Sample ID: 1543349 MSD

QC for Samples: 1196575011

Analysis Date: 11/12/2019 16:49
Analysis Date: 11/12/2019 16:50
Analysis Date: 11/12/2019 16:53
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.421	0.400	.813	98	0.400	0.826	101	75-125	1.60	(< 25)

Batch Information

Analytical Batch: WDA4683
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/12/2019 4:50:42PM

Prep Batch: WXX13111
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 11/12/2019 12:12:00PM
Prep Initial Wt./Vol.: 12.50mL
Prep Extract Vol: 25.00mL

Print Date: 11/19/2019 10:18:54AM

Method Blank

Blank ID: MB for HBN 1802210 [WXX/13115]
Blank Lab ID: 1543548

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012

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: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 9:44:52AM

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1802210 [WXX/13115]
Blank Lab ID: 1543553

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

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: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 7:01:21AM

Prep Batch: WXX13115
Prep Method: METHOD
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13115]
Blank Spike Lab ID: 1543549
Date Analyzed: 11/14/2019 09:46

Spike Duplicate ID: LCSD for HBN 1196575 [WXX13115]
Spike Duplicate Lab ID: 1543550
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.74	93	4	3.48	87	(75-125)	7.20	(< 25)

Batch Information

Analytical Batch: **WDA4686**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13115**
Prep Method: **METHOD**
Prep Date/Time: **11/13/2019 11:53**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1196575 [WXX13115]
Blank Spike Lab ID: 1543554
Date Analyzed: 11/14/2019 07:02

Spike Duplicate ID: LCSD for HBN 1196575 [WXX13115]
Spike Duplicate Lab ID: 1543555
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.76	94	4	3.70	93	(75-125)	1.70	(< 25)

Batch Information

Analytical Batch: **WDA4686**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13115**
Prep Method: **METHOD**
Prep Date/Time: **11/13/2019 11:53**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1196566001
MS Sample ID: 1543551 MS
MSD Sample ID: 1543552 MSD

Analysis Date: 11/14/2019 9:48
Analysis Date: 11/14/2019 9:50
Analysis Date: 11/14/2019 9:51
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	0.366J	4.00	3.71	84	4.00	3.56	80	75-125	4.30	(< 25)

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 9:50:01AM

Prep Batch: WXX13115
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/19/2019 10:19:00AM

Matrix Spike Summary

Original Sample ID: 1198801011
MS Sample ID: 1543556 MS
MSD Sample ID: 1543557 MSD

Analysis Date: 11/14/2019 7:12
Analysis Date: 11/14/2019 7:14
Analysis Date: 11/14/2019 7:15
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1196575001, 1196575002, 1196575003, 1196575004, 1196575005, 1196575006, 1196575007, 1196575008, 1196575009, 1196575010, 1196575011, 1196575012, 1196575013

Results by **SM21 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	1.00U	4.00	3.42	85	4.00	3.29	82	75-125	3.60	(< 25)

Batch Information

Analytical Batch: WDA4686
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 11/14/2019 7:14:05AM

Prep Batch: WXX13115
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 11/13/2019 11:53:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 11/19/2019 10:19:00AM

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1196575

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Locations Nationwide

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348183 NSW 11/1/19

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

Section 1

CLIENT: Stantec

CONTACT: Jake Alward | PHONE NO: 343-5202

PROJECT NAME: Wasilla WWTP | PROJECT/ PWSID/ PERMIT#:

REPORTS TO: | E-MAIL:

INVOICE TO: | QUOTE #: | P.O. #: 24700415

Section 2 / Section 3

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incremental Soils	BOD (Preservative: I)	TSS (Preservative: I)	Nitrate/Nitrite (Preservative: I)	FC (Preservative: Na2S2O3)	TC (Quanti) 1x/10x (Preservative: Na2S2O3)	TKN/Ammonia/TP (Preservative: H2SO4)				REMARKS/ LOC ID
(1) A-F	SW8	11/1/19	1115	Water	6	G	X	X	X	X	X	X				
(2) A-F	SW9	↓	1055	↓	↓	↓	X	X	X	X	X	X				
(3) A-F	SW10	↓	1040	↓	↓	↓	X	X	X	X	X	X				
(4) A-F	SW11	↓	1305	↓	↓	↓	X	X	X	X	X	X				
(5) A-F	SW12	↓	1315	↓	↓	↓	X	X	X	X	X	X				
(6) A-F	SW13	↓	1325	↓	↓	↓	X	X	X	X	X	X				
(7) A-F	SW14	↓	1430	↓	↓	↓	X	X	X	X	X	X				
(8) A-F	SW15	↓	1415	↓	↓	↓	X	X	X	X	X	X				
(9) A-F	SW16	↓	1400	↓	↓	↓	X	X	X	X	X	X				
(10) A-F	SW17	↓	1500	↓	↓	↓	X	X	X	X	X	X				

Section 5

Relinquished By	Date	Time	Received By
Relinquished By: (1) Ronnie Russell	11-1-19	1636	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	11/01/19	16:36	Received For Laboratory By: [signature] AAG

Section 4 DOD Project? Yes (No)

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions: Standard

Temp Blank °C: 1: 2.8° D54 2: 2.8° D54

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN (ABSENT)

(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

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

F083-Kit_Request_and_COC_Templates-Blank
Revised 2013-03-24

SGS

1196575

ORD

Locations Nationwide

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

www.us.sgs.com

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

Section 1

CLIENT: Stantec

CONTACT: Jake Alward PHONE NO: 343-5202

PROJECT NAME: Wasilla WWTP PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL:

INVOICE TO: QUOTE #:

P.O. #: 204700415

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative: 1	1	1	None	None	H2SO4				REMARKS/ LOC ID
							BOD	TSS	Nitrate/Nitrite	EC	Total Coliform/ E. coli	Ammonia as N				
(11) AF	SW1B	11/1/19	1528	Water	6	G	X	X	X	X	X	X				
(12) AF	Shaw	"	1200	"	"	"	X	X	X	X	X	X				
(13) AF	DUP 2	"	1500	"	"	"	X	X	X	X	X	X				

Roxanne Russell

Section 5

	Date	Time	Received By:
Relinquished By: (1) Roxanne Russell	11-1-19	1636	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	11/01/19	16:36	Received For Laboratory By:

Section 4

DOD Project? Yes / No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Standard

Temp Blank °C: 1: 2.8° DSY 2: 2.8° DSY

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle) (AD)

INTACT BROKEN ABSENT

(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

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

e-Sample Receipt Form

SGS Workorder #: **1196575**

1196575

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		Yes — Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	N/A	Absent
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?	N/A	
	N/A	**Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 2.8 °C Therm. ID: D54
	Yes	Cooler ID: 2 @ 2.8 °C Therm. ID: D54
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °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 containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
	N/A	***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition
1196575001-A	No Preservative Required	OK
1196575001-B	No Preservative Required	OK
1196575001-C	No Preservative Required	OK
1196575001-D	Na2S2O3 for Chlorine Redu	OK
1196575001-E	Na2S2O3 for Chlorine Redu	OK
1196575001-F	H2SO4 to pH < 2	OK
1196575002-A	No Preservative Required	OK
1196575002-B	No Preservative Required	OK
1196575002-C	No Preservative Required	OK
1196575002-D	Na2S2O3 for Chlorine Redu	OK
1196575002-E	Na2S2O3 for Chlorine Redu	OK
1196575002-F	H2SO4 to pH < 2	OK
1196575003-A	No Preservative Required	OK
1196575003-B	No Preservative Required	OK
1196575003-C	No Preservative Required	OK
1196575003-D	Na2S2O3 for Chlorine Redu	OK
1196575003-E	Na2S2O3 for Chlorine Redu	OK
1196575003-F	H2SO4 to pH < 2	OK
1196575004-A	No Preservative Required	OK
1196575004-B	No Preservative Required	OK
1196575004-C	No Preservative Required	OK
1196575004-D	Na2S2O3 for Chlorine Redu	OK
1196575004-E	Na2S2O3 for Chlorine Redu	OK
1196575004-F	H2SO4 to pH < 2	OK
1196575005-A	No Preservative Required	OK
1196575005-B	No Preservative Required	OK
1196575005-C	No Preservative Required	OK
1196575005-D	Na2S2O3 for Chlorine Redu	OK
1196575005-E	Na2S2O3 for Chlorine Redu	OK
1196575005-F	H2SO4 to pH < 2	OK
1196575006-A	No Preservative Required	OK
1196575006-B	No Preservative Required	OK
1196575006-C	No Preservative Required	OK
1196575006-D	Na2S2O3 for Chlorine Redu	OK
1196575006-E	Na2S2O3 for Chlorine Redu	OK
1196575006-F	H2SO4 to pH < 2	OK
1196575007-A	No Preservative Required	OK
1196575007-B	No Preservative Required	OK
1196575007-C	No Preservative Required	OK
1196575007-D	Na2S2O3 for Chlorine Redu	OK
1196575007-E	Na2S2O3 for Chlorine Redu	OK
1196575007-F	H2SO4 to pH < 2	OK
1196575008-A	No Preservative Required	OK
1196575008-B	No Preservative Required	OK
1196575008-C	No Preservative Required	OK
1196575008-D	Na2S2O3 for Chlorine Redu	OK
1196575008-E	Na2S2O3 for Chlorine Redu	OK
1196575008-F	H2SO4 to pH < 2	OK
1196575009-A	No Preservative Required	OK
1196575009-B	No Preservative Required	OK
1196575009-C	No Preservative Required	OK
1196575009-D	Na2S2O3 for Chlorine Redu	OK
1196575009-E	Na2S2O3 for Chlorine Redu	OK
1196575009-F	H2SO4 to pH < 2	OK
1196575010-A	No Preservative Required	OK
1196575010-B	No Preservative Required	OK
1196575010-C	No Preservative Required	OK
1196575010-D	Na2S2O3 for Chlorine Redu	OK
1196575010-E	Na2S2O3 for Chlorine Redu	OK
1196575010-F	H2SO4 to pH < 2	OK
1196575011-A	No Preservative Required	OK
1196575011-B	No Preservative Required	OK
1196575011-C	No Preservative Required	OK
1196575011-D	Na2S2O3 for Chlorine Redu	OK
1196575011-E	Na2S2O3 for Chlorine Redu	OK
1196575011-F	H2SO4 to pH < 2	OK
1196575012-A	No Preservative Required	OK
1196575012-B	No Preservative Required	OK
1196575012-C	No Preservative Required	OK
1196575012-D	Na2S2O3 for Chlorine Redu	OK
1196575012-E	Na2S2O3 for Chlorine Redu	OK
1196575012-F	H2SO4 to pH < 2	OK
1196575013-A	No Preservative Required	OK
1196575013-B	No Preservative Required	OK
1196575013-C	No Preservative Required	OK
1196575013-D	Na2S2O3 for Chlorine Redu	OK
1196575013-E	Na2S2O3 for Chlorine Redu	OK
1196575013-F	H2SO4 to pH < 2	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

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

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